

<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 272	
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE		4. ORDER NUMBER		5. SOLICITATION NUMBER <b>W56ZTN22R0007</b>	
7. FOR SOLICITATION INFORMATION CALL:		a. NAME <b>MARGARET V. KEELTY</b>				b. TELEPHONE NUMBER (No Collect Calls)	
						8. OFFER DUE DATE/LOCAL TIME <b>08:00 AM 18 Feb 2023</b>	
9. ISSUED BY  ACC-APG - GARRISON DIVISION (W56ZTN) ACC-APG GARRISON DIVISION BLDG 6001 6565 SURVEILLANCE LOOP ABERDEEN PROVING GROUND MD 21005-3013  TEL: FAX:		CODE <b>W56ZTN</b>		10. THIS ACQUISITION IS  <input type="checkbox"/> UNRESTRICTED OR <input checked="" type="checkbox"/> SET ASIDE: <u>100 %</u> 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 <input type="checkbox"/> 8(A) NAICS: <b>561621</b> SIZE STANDARD: <b>20,500,000.00</b>			
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 type="checkbox"/> RFQ <input type="checkbox"/> IFB <input checked="" type="checkbox"/> RFP	
15. DELIVER TO  ABERDEEN PROVING GROUND DIRECTORATE OF PUBLIC WORKS ABERDEEN PROVING GROUND MD 21005 TEL: FAX:		CODE <b>W905HS</b>		16. ADMINISTERED BY  CODE			
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 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 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 checked="" type="checkbox"/> 28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN <u>1</u> 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 272	
19. ITEM NO.	20. SCHEDULE OF SUPPLIES/ SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT
<b>SEE SCHEDULE</b>					
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		34. VOUCHER NUMBER		35. AMOUNT VERIFIED CORRECT FOR	
<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL				36. PAYMENT	
				<input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	
38. S/R ACCOUNT NUMBER		39. S/R VOUCHER NUMBER		40. PAID BY	
41a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT		42a. RECEIVED BY <i>(Print)</i>			
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		42b. RECEIVED AT <i>(Location)</i>			
		41c. DATE		42c. DATE REC'D <i>(YY/MM/DD)</i>	
				42d. TOTAL CONTAINERS	

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
0001	Monthly ITM Services FFP Inspection, Testing, Maintenance (ITM) Monthly ITM Services of Fire Protection Systems -- Fire Pumps. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2L, TE2R, TE2U) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
0002	Semi-annual ITM Services FFP Semi-annual ITM Services of Fire Protection Systems--Kitchen Hood Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A, TE2B, TE2G--C02 LIQUID LEVELS, TE2H, TE2J) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
0003	Annual ITM Services FFP Annual ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008 (Technical Exhibits: TE2C through TE2K and TE2M through TE2Z)  FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
0004	2 Year ITM Services FFP 2 Years requirement for ITM Services Requirement of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A through TE2K, TE2M through TE2Z)  FOB: Destination	1	Each		

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ESTIMATED  
NET AMT



ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
0005	5 Year ITM Services FFP 5 Year Requirement for ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits TE2C, TE2D, TE2E, TE2F, TE2H, TE2J, TE2K, TE2L, TE2M, TE2N, TE2P, TE2Q, TE2R, TE2S, TE2T, TE2U, TE2X, TE2Y, TE2Z) FOB: Destination				

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
0006	5-12 Year ITM Hydrostatic Testing FFP 5-12 Year requirement for ITM of Fire Protection Systems Storage Vessels. (Hydrostatic Testing) (Technical Exhibits TE2A, TE2B, TE2J, TE2P (as required)) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
0007	Repairs- General and Emergency repairs FFP Repairs- General, and Emergency repairs. This CLIN priced upon separate work order request for quotes to provide repairs of Fire Alarm and Sprinklers. Work orders are generally valued at \$301.00 to \$30,000.00. On each work order, Contractor will submit a bare cost for parts and labor plus firm fixed price markup percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. The Work Order (WO) then becomes FFP. The COR has approval authority up to \$3000.00 of proposed cost. Proposals valued above \$3000.00 will require Contracting Officer approval. Note: Repair orders under this base year CLIN 0008 are not guaranteed. Existing repair orders under an existing repair only contract will continue until completed; new repair work orders will be issued under this ITRM contract once these repairs are completed. FOB: Destination	1	Job		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
0008	Common Replacement Parts FFP Spare Parts – This CLIN will provide funding for common repair replacement parts replaced during inspections and testing of Fire Alarms and Sprinklers. Contractor will itemize on each inspection report these commonly replaced parts and batteries. Contractor will itemize bare cost for parts and labor plus firm fixed price mark-up percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. FOB: Destination	1	Job		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
1001 OPTION	Monthly ITM Services FFP Inspection, Testing, Maintenance (ITM) Monthly ITM Services of Fire Protection Systems -- Fire Pumps. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2L, TE2R, TE2U) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
1002 OPTION	Semi-annual ITM Services FFP Semi-annual ITM Services of Fire Protection Systems--Kitchen Hood Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A, TE2B, TE2G--C02 LIQUID LEVELS, TE2H, TE2J) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1003 OPTION	Annual ITM Services FFP Annual ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008 (Technical Exhibits: TE2C through TE2K and TE2M through TE2Z)  FOB: Destination	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
1004 OPTION	2 Year ITM Services FFP 2 Years requirement for ITM Services Requirement of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A through TE2K, TE2M through TE2Z)  FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
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1005 OPTION	5 Year ITM Services FFP 5 Year Requirment for ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits TE2C, TE2D, TE2E, TE2F, TE2H, TE2J, TE2K, TE2L, TE2M, TE2N, TE2P, TE2Q, TE2R,TE2S, TE2T, TE2U, TE2X, TE2Y, TE2Z) FOB: Destination				
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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
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1006 OPTION	5-12 Year ITM Hydrostatic Testing FFP 5-12 Year requirement for ITM of Fire Protection Systems Storage Vessels. (Hydrostatic Testing) (Technical Exhibits TE2A, TE2B, TE2J, TE2P (as required)) FOB: Destination	1	Each		
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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
1007 OPTION	Repairs- General and Emergency repairs FFP Repairs- General, and Emergency repairs. This CLIN priced upon separate work order request for quotes to provide repairs of Fire Alarm and Sprinklers. Work orders are generally valued at \$301.00 to \$30,000.00. On each work order, Contractor will submit a bare cost for parts and labor plus firm fixed price markup percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. The Work Order (WO) then becomes FFP. The COR has approval authority up to \$3000.00 of proposed cost. Proposals valued above \$3000.00 will require Contracting Officer approval. Note: Repair orders under this base year CLIN 0008 are not guaranteed. Existing repair orders under an existing repair only contract will continue until completed; new repair work orders will be issued under this ITRM contract once these repairs are completed. FOB: Destination	1	Job		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
1008 OPTION	Common Replacement Parts FFP Spare Parts – This CLIN will provide funding for common repair replacement parts replaced during inspections and testing of Fire Alarms and Sprinklers. Contractor will itemize on each inspection report these commonly replaced parts and batteries. Contractor will itemize bare cost for parts and labor plus firm fixed price mark-up percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. FOB: Destination	1	Job		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
2001 OPTION	Monthly ITM Services FFP Inspection, Testing, Maintenance (ITM) Monthly ITM Services of Fire Protection Systems -- Fire Pumps. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2L, TE2R, TE2U) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
2002 OPTION	Semi-annual ITM Services FFP Semi-annual ITM Services of Fire Protection Systems--Kitchen Hood Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A, TE2B, TE2G--C02 LIQUID LEVELS, TE2H, TE2J) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
2003 OPTION	Annual ITM Services FFP Annual ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008 (Technical Exhibits: TE2C through TE2K and TE2M through TE2Z)  FOB: Destination	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
2004 OPTION	2 Year ITM Services FFP 2 Years requirement for ITM Services Requirement of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A through TE2K, TE2M through TE2Z)  FOB: Destination	1	Each		

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ESTIMATED  
NET AMT



ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
2005 OPTION	5 Year ITM Services FFP 5 Year Requirement for ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits TE2C, TE2D, TE2E, TE2F, TE2H, TE2J, TE2K, TE2L, TE2M, TE2N, TE2P, TE2Q, TE2R, TE2S, TE2T, TE2U, TE2X, TE2Y, TE2Z) FOB: Destination				
ESTIMATED NET AMT					

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
2006 OPTION	5-12 Year ITM Hydrostatic Testing FFP 5-12 Year requirement for ITM of Fire Protection Systems Storage Vessels. (Hydrostatic Testing) (Technical Exhibits TE2A, TE2B, TE2J, TE2P (as required)) FOB: Destination	1	Each		
ESTIMATED NET AMT					

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
2007 OPTION	Repairs- General and Emergency repairs FFP Repairs- General, and Emergency repairs. This CLIN priced upon separate work order request for quotes to provide repairs of Fire Alarm and Sprinklers. Work orders are generally valued at \$301.00 to \$30,000.00. On each work order, Contractor will submit a bare cost for parts and labor plus firm fixed price markup percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. The Work Order (WO) then becomes FFP. The COR has approval authority up to \$3000.00 of proposed cost. Proposals valued above \$3000.00 will require Contracting Officer approval. Note: Repair orders under this base year CLIN 0008 are not guaranteed. Existing repair orders under an existing repair only contract will continue until completed; new repair work orders will be issued under this ITRM contract once these repairs are completed. FOB: Destination	1	Job		
					ESTIMATED NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
2008 OPTION	Common Replacement Parts FFP Spare Parts – This CLIN will provide funding for common repair replacement parts replaced during inspections and testing of Fire Alarms and Sprinklers. Contractor will itemize on each inspection report these commonly replaced parts and batteries. Contractor will itemize bare cost for parts and labor plus firm fixed price mark-up percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. FOB: Destination	1	Job		
					ESTIMATED NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
3001 OPTION	Monthly ITM Services FFP Inspection, Testing, Maintenance (ITM) Monthly ITM Services of Fire Protection Systems -- Fire Pumps. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2L, TE2R, TE2U) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
3002 OPTION	Semi-annual ITM Services FFP Semi-annual ITM Services of Fire Protection Systems--Kitchen Hood Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A, TE2B, TE2G--C02 LIQUID LEVELS, TE2H, TE2J) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
3003		1	Each		
OPTION	Annual ITM Services FFP Annual ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008 (Technical Exhibits: TE2C through TE2K and TE2M through TE2Z)  FOB: Destination				

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NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
3004		1	Each		
OPTION	2 Year ITM Services FFP 2 Years requirement for ITM Services Requirement of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A through TE2K, TE2M through TE2Z)  FOB: Destination				

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
3005 OPTION	5 Year ITM Services FFP 5 Year Requirement for ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits TE2C, TE2D, TE2E, TE2F, TE2H, TE2J, TE2K, TE2L, TE2M, TE2N, TE2P, TE2Q, TE2R, TE2S, TE2T, TE2U, TE2X, TE2Y, TE2Z) FOB: Destination				

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
3006 OPTION	5-12 Year ITM Hydrostatic Testing FFP 5-12 Year requirement for ITM of Fire Protection Systems Storage Vessels. (Hydrostatic Testing) (Technical Exhibits TE2A, TE2B, TE2J, TE2P (as required)) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
3007 OPTION	Repairs- General and Emergency repairs FFP Repairs- General, and Emergency repairs. This CLIN priced upon separate work order request for quotes to provide repairs of Fire Alarm and Sprinklers. Work orders are generally valued at \$301.00 to \$30,000.00. On each work order, Contractor will submit a bare cost for parts and labor plus firm fixed price markup percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. The Work Order (WO) then becomes FFP. The COR has approval authority up to \$3000.00 of proposed cost. Proposals valued above \$3000.00 will require Contracting Officer approval. Note: Repair orders under this base year CLIN 0008 are not guaranteed. Existing repair orders under an existing repair only contract will continue until completed; new repair work orders will be issued under this ITRM contract once these repairs are completed. FOB: Destination	1	Job		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
3008 OPTION	Common Replacement Parts FFP Spare Parts – This CLIN will provide funding for common repair replacement parts replaced during inspections and testing of Fire Alarms and Sprinklers. Contractor will itemize on each inspection report these commonly replaced parts and batteries. Contractor will itemize bare cost for parts and labor plus firm fixed price mark-up percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. FOB: Destination	1	Job		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
4001 OPTION	Monthly ITM Services FFP Inspection, Testing, Maintenance (ITM) Monthly ITM Services of Fire Protection Systems -- Fire Pumps. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2L, TE2R, TE2U) FOB: Destination	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
4002 OPTION	Semi-annual ITM Services FFP Semi-annual ITM Services of Fire Protection Systems--Kitchen Hood Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A, TE2B, TE2G--C02 LIQUID LEVELS, TE2H, TE2J) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
4003 OPTION	Annual ITM Services FFP Annual ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008 (Technical Exhibits: TE2C through TE2K and TE2M through TE2Z)  FOB: Destination	1	Each		

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NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
4004 OPTION	2 Year ITM Services FFP 2 Years requirement for ITM Services Requirement of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A through TE2K, TE2M through TE2Z)  FOB: Destination	1	Each		

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ESTIMATED  
NET AMT



ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
4005 OPTION	5 Year ITM Services FFP 5 Year Requirement for ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits TE2C, TE2D, TE2E, TE2F, TE2H, TE2J, TE2K, TE2L, TE2M, TE2N, TE2P, TE2Q, TE2R, TE2S, TE2T, TE2U, TE2X, TE2Y, TE2Z) FOB: Destination				
ESTIMATED NET AMT					

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
4006 OPTION	5-12 Year ITM Hydrostatic Testing FFP 5-12 Year requirement for ITM of Fire Protection Systems Storage Vessels. (Hydrostatic Testing) (Technical Exhibits TE2A, TE2B, TE2J, TE2P (as required)) FOB: Destination	1	Each		
ESTIMATED NET AMT					

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
4007 OPTION	Repairs- General and Emergency repairs FFP Repairs- General, and Emergency repairs. This CLIN priced upon separate work order request for quotes to provide repairs of Fire Alarm and Sprinklers. Work orders are generally valued at \$301.00 to \$30,000.00. On each work order, Contractor will submit a bare cost for parts and labor plus firm fixed price markup percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. The Work Order (WO) then becomes FFP. The COR has approval authority up to \$3000.00 of proposed cost. Proposals valued above \$3000.00 will require Contracting Officer approval. Note: Repair orders under this base year CLIN 0008 are not guaranteed. Existing repair orders under an existing repair only contract will continue until completed; new repair work orders will be issued under this ITRM contract once these repairs are completed. FOB: Destination	1	Job		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
4008 OPTION	Common Replacement Parts FFP Spare Parts – This CLIN will provide funding for common repair replacement parts replaced during inspections and testing of Fire Alarms and Sprinklers. Contractor will itemize on each inspection report these commonly replaced parts and batteries. Contractor will itemize bare cost for parts and labor plus firm fixed price mark-up percentage of (fill in) _____ % and a firm fixed price percentage of (fill in) _____ % overhead and profit. FOB: Destination	1	Job		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
5001 OPTION	Monthly ITM Services FFP Inspection, Testing, Maintenance (ITM) Monthly ITM Services of Fire Protection Systems -- Fire Pumps. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2L, TE2R, TE2U) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
5002 OPTION	Semi-annual ITM Services FFP Semi-annual ITM Services of Fire Protection Systems--Kitchen Hood Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A, TE2B, TE2G--C02 LIQUID LEVELS, TE2H, TE2J) FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
5003 OPTION	Annual ITM Services FFP Annual ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008 (Technical Exhibits: TE2C through TE2K and TE2M through TE2Z)  FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
5004 OPTION	2 Year ITM Services FFP 2 Years requirement for ITM Services Requirement of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits: TE2A through TE2K, TE2M through TE2Z)  FOB: Destination	1	Each		

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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
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5005 OPTION	5 Year ITM Services FFP 5 Year Requirment for ITM Services of Fire Protection Systems. The ITM services shall allow up to \$400.00 for replacement of common item replacement parts during each ITM. This amount will be deducted from the total estimated amount accepted on CLIN 0008. (Technical Exhibits TE2C, TE2D, TE2E, TE2F, TE2H, TE2J, TE2K, TE2L, TE2M, TE2N, TE2P, TE2Q, TE2R,TE2S, TE2T, TE2U, TE2X, TE2Y, TE2Z) FOB: Destination				
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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
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5006 OPTION	5-12 Year ITM Hydrostatic Testing FFP 5-12 Year requirement for ITM of Fire Protection Systems Storage Vessels. (Hydrostatic Testing) (6-months option) (Technical Exhibits TE2A, TE2B, TE2J, TE2P (as required)) FOB: Destination	1	Each		
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ESTIMATED  
NET AMT

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
5007 OPTION	Repairs- General and Emergency repairs FFP Repairs- General, and Emergency repairs. This CLIN priced upon separate work order request for quotes to provide repairs of Fire Alarm and Sprinklers. Work orders are generally valued at \$301.00 to \$30,000.00. On each work order, Contractor will submit a bare cost for parts and labor plus firm fixed price markup percentage of (fill in)_____ % and a firm fixed price percentage of (fill in)_____ % overhead and profit. The Work Order (WO) then becomes FFP. The COR has approval authority up to \$3000.00 of proposed cost. Proposals valued above \$3000.00 will require Contracting Officer approval. Note: Repair orders under this base year CLIN 0008 are not guaranteed. Existing repair orders under an existing repair only contract will continue until completed; new repair work orders will be issued under this ITRM contract once these repairs are completed. (6-months option) FOB: Destination	1	Job		
ESTIMATED NET AMT					

ITEM NO	SUPPLIES/SERVICES	ESTIMATED QUANTITY	UNIT	UNIT PRICE	ESTIMATED AMOUNT
5008 OPTION	Common Replacement Parts FFP Spare Parts – This CLIN will provide funding for common repair replacement parts replaced during inspections and testing of Fire Alarms and Sprinklers. Contractor will itemize on each inspection report these commonly replaced parts and batteries. Contractor will itemize bare cost for parts and labor plus firm fixed price mark-up percentage of (fill in)_____ % and a firm fixed price percentage of (fill in)_____ % overhead and profit. (6-months option) FOB: Destination	1	Job		
ESTIMATED NET AMT					

Section C - Descriptions and Specifications

PERFORMANCE WORK STATEMENT

**Performance Work Statement (PWS)**

**Fire Protection Systems Inspection, Testing, Maintenance (ITM) with Repair**

**Aberdeen Proving Ground  
and  
Adelphi Laboratory Center**

**07 December 2022**

**Table of Contents**

<b>1.0</b>	<b>INTRODUCTION .....</b>	<b>6</b>
1.1	Background .....	6
1.2	Location .....	6
1.2	OBJECTIVES.....	6

1.3	CLIMATIC CONDITIONS .....	7
1.4	FACILITY ACCESS .....	7
1.5	TRAFFIC FLOW .....	7
1.6	DRAINAGE .....	7
1.7	RESTORATION OF LANDSCAPE DAMAGE.....	7
1.8	DUST SUPPRESSION .....	8
1.9	UTILITY LOCATION .....	8
1.10	EXCAVATION PERMITS .....	8
<b>2.0</b>	<b>REQUIREMENTS .....</b>	<b>8</b>
<b>2.1</b>	<b>DESCRIPTION OF SERVICES .....</b>	<b>8</b>
2.1.1	Inspection, Testing and Maintenance .....	8
2.1.2	ITM Program .....	9
2.1.3	Notification to Conduct ITM .....	9
2.1.4	ITM Schedules .....	10
2.1.5	Combination Inspections .....	10
2.1.6	Deficiency Reports .....	10
2.1.7	ITM Minor Repair Parts .....	11
2.1.8	System Batteries .....	11
2.1.9	Fire Pump Maintenance .....	12
2.1.10	Kitchen Hoods .....	12
2.1.11	Kitchen Hood Exhaust system .....	13
2.1.12	Inventory Database.....	13
2.1.13	Weekly and Monthly Reports.....	13
2.1.14	Service Delivery Plan.....	13
2.1.15	AES Transmitters .....	14
	2.1.15.1 AES Project Overview.....	14
	2.1.15.2 AES Work Description.....	14
	2.1.15.3 AES Training .....	15
	2.1.15.4 AES Completion Report.....	16
2.1.16	Non-Personal Services.....	16
<b>2.2</b>	<b>GENERAL INFORMATION.....</b>	<b>16</b>
2.2.1	Transition (Phase In/Phase Out).....	16
2.2.2	Phase-in .....	16
2.2.3	Phase-out .....	17
2.2.2	Place of Performance and Hours of Operation .....	17
	2.2.2.1 Place of Performance (expanded description).....	17
	2.2.2.2 Hours of Operation .....	17
	2.2.2.3 Installation Closures.....	17
	2.2.2.4 Inclement Weather Delay.....	18
	2.2.2.5 Emergency Coordination.....	18
	2.2.2.6 Federal Holidays .....	18
	2.2.2.7 Travel/Temporary Duty.....	18
2.3	OPERATIONS.....	18
	2.3.1 Emergency Medical Treatment.....	18
	2.3.2 Accident Reporting.....	19
2.4	CONTRACT ADMINISTRATION AND MANAGEMENT.....	19
	2.4.1 Post Award Conference/Performance Evaluation Meetings.....	19
	2.4.2 Roles.....	19
	2.4.2.1 Contracting Officer (KO).....	20
	2.4.2.2 Contracting Officer's Representative (COR).....	20
	2.4.2.3 COR Authority.....	20



	2.4.2.4	COR or designated Government Representative Functions.....	20
2.4.3		Contractor Key Personnel .....	21
	2.4.3.1	Project Manager.....	21
	2.4.3.2	Operations and Maintenance Superintendent (O&M Superintendent) .....	21
	2.4.3.3	Quality Control Manager (QCM).....	21
	2.4.3.4	Quality Control Inspectors (QCI).....	22
	2.4.3.5	General Fund Enterprise Business System (GFEBS) Project Manager .....	22
	2.4.3.6	GFEBS Certification.....	22
2.4.4		Contractor Requirements.....	22
	2.4.4.1	U.S. Residency.....	22
	2.4.4.2	Qualification Standards.....	22
	2.4.4.3	Contractor Identification.....	22
	2.4.4.4	Standards of Conduct.....	23
	2.4.4.5	Contractor Hiring Restrictions.....	23
2.4.5		Business Relations.....	23
2.4.6		Manual Operations.....	23
2.4.7		Interactive Customer Evaluation (ICE).....	23
2.5		WORK MANAGEMENT.....	23
	2.5.1	Overhead and Profit.....	24
	2.5.2	Unscheduled Service Calls.....	24
	2.5.3	Response to Unscheduled Service Calls.....	24
	2.5.4	Work Clearance.....	24
		2.5.4.1 Work Status.....	25
		2.5.4.2 Work Standards.....	25
	2.5.5	General Fund Enterprise Business System (GFEBS).....	25
	2.5.6	Disposal .....	25
	2.5.7	Environmental Requirements.....	26
		2.5.7.1 Particulate Matter.....	26
		2.5.7.2 Construction (Storm Water) permits.....	26
		2.5.7.3 Utility Clearances.....	26
		2.5.7.4 As-Built Drawings.....	26
		2.5.7.5 Maintenance of Work Site.....	27
		2.5.7.6 Installation Recycling Program.....	27
		2.5.7.7 Actions and Delivery.....	27
		2.5.7.8 Facilities, Systems, and Equipment Identified for Future Replacement...27	
		2.5.7.9 New Components.....	27
		2.5.7.10 Used King Fisher Components.....	28
		2.5.7.11 Energy Conservation Standards.....	28
2.6		DEMAND MAINTENANCE ORDERS (DMOS).....	28
	2.6.1	Directorate of Public Work (DPW) Work Reception (WR).....	28
	2.6.2	DMO Call Receipt and Entry.....	28
	2.6.3	DMO Major Repair Deficiencies.....	28
	2.6.4	DMO Repair Proposal.....	29
	2.6.5	Completed Work .....	29
	2.6.6	Materials.....	30
	2.6.7	Subcontract Work .....	30
2.7		PREVENTIVE MAINTENANCE ORDERS (PMOS).....	30
2.8		OPERATIONS WORK ORDERS (OWOS).....	30
2.9		PROJECT WORK ORDERS (PWOS).....	30
2.10		WARRANTY PROGRAM.....	30

2.10.1	Warranty Enforcement Manager.....	31
2.10.2	Warranty Management.....	31
2.10.3	Routing of Warranty DMOs.....	31
2.10.4	Warranty Records.....	31
2.10.5	Exception.....	31
2.11	TECHNICAL DOCUMENT LIBRARY OPERATION.....	31
2.12	MAINTAIN AS-BUILTS .....	32
2.13	HISTORIC PROPERTY OR ARCHAEOLOGICAL SITE.....	32
2.13.1	Repair and Replacement.....	32
2.14	SECURITY.....	32
2.14.1	Access and General Protection/Security Policy and Procedures .....	32
2.14.2	Rules and Regulations from Commander.....	33
2.14.3	Government Vehicles.....	33
2.14.4	Contractor Vehicles.....	33
2.14.5	Contractor and Vendor Access.....	33
2.14.5.1	Access Points.....	34
2.14.6	Physical Security. (Only applicable to Government Furnished Property (GFP) and Facilities).....	34
2.15	SECURITY TRAINING.....	34
2.15.1	Anti-Terrorism (AT) Level I Training.....	34
2.15.2	iWATCH Training.....	35
2.15.3	Operational Security (OPSEC) Awareness Training.....	35
2.16	SAFETY.....	35
2.16.1	Safety Plan.....	35
2.16.2	Occupational Safety and Health (OSHA).....	36
2.16.3	Reporting of Fire and Safety Hazards.....	36
2.16.3.1	Hot Work Permit .....	36
2.17	TRAINING.....	36
2.17.1	Training, Physical Requirements, or other Expertise Required.....	36
2.17.2	Required Certifications.....	37
2.17.3	Documentation.....	38
2.17.4	New Facilities Equipment Training.....	38
2.17.5	Asbestos Awareness Training.....	38
2.17.6	Child Abuse Prevention, Identification, and reporting.....	38
2.18	ENVIRONMENTAL REQUIREMENTS.....	39
2.18.1	Green Procurement.....	39
2.18.2	Construction and Demolition Diversion.....	39
2.18.3	Environmental Compliance.....	39
2.18.3.1	(MSDS).....	39
2.18.3.2	HAZCOM Training.....	40
2.18.4	Hazardous Waste.....	40
2.18.4.1	Hazardous Waste Storage.....	40
2.18.4.2	RCRA Waste.....	40
2.18.4.3	NON RCRA Waste.....	40
2.18.4.4	All Other Waste.....	41
2.18.5	Environmental Management System (EMS).....	41
2.18.5.1	EMS General Awareness Training.....	41
2.18.5.2	Environmental Policy Assurance.....	41

2.18.5.3	Compliance with Environmental Laws and Regulations.....	41
2.18.6	Perform Hazardous Material Work.....	42
2.18.7	Spill Plan.....	42
2.18.8	Energy and Utilities Conservation Programs.....	42
2.18.9	Contractor Participation.....	42
2.19	CONTINGENCY PLANS.....	42
<b>3.0</b>	<b>PERFORMANCE REQUIREMENTS AND STANDARDS.....</b>	<b>42</b>
3.1	QUALITY ASSURANCE.....	42
3.1.1	(QSAP) Quality Assurance Surveillance Plan.....	43
3.2	QUALITY CONTROL PLAN (QCP).....	46
3.2.1	Quality Control Reports.....	46
3.2.2	Quality Control Files.....	47
3.3	CUSTOMER FEEDBACK PROGRAM.....	47
<b>4.0</b>	<b>PERFORMANCE TASK REQUIREMENTS (DMO) REPAIR STANDARDS AND ACCEPTABLE QUALITY LEVELS (AQLS).....</b>	<b>47</b>
7.5.4	Identification of Contractor Vehicles and Trailers .....	49
4.1	PERFORMANCE REQUIREMENT SUMMARY ITM.....	49
<b>5.0</b>	<b>COMMON LEVELS OF SUPPORT (CLS).....</b>	<b>50</b>
<b>6.0</b>	<b>DELIVERABLES.....</b>	<b>50</b>
<b>7.0</b>	<b>RELATED DOCUMENTS.....</b>	<b>54</b>
7.1	DEFINITIONS AND ACRONYMS.....	54
7.1.1	Definitions.....	54
7.1.2	Acronyms.....	68
7.2	APPLICABLE DIRECTIVES, PUBLICATIONS.....	71
7.2.1	Forms. Mandatory records and report forms.....	81
7.3	TECHNICAL EXHIBIT (TE).....	82
	Technical Exhibit Index.....	82
	Technical Exhibit 1 - Area Maps.....	84
	Technical Exhibit 2 - Inspection Workload Data.....	86
	Technical Exhibit 3 – Transmitters With Tier Levels.....	184
	Technical Exhibit 4 - IMCOM Requirements/Standards.....	199
	Technical Exhibit 5 – Forms.....	202
	Technical Exhibit 6 - Special Requirement Document.....	223
7.4	GOVERNMENT-FURNISHED MATERIAL (GFM)/PROPERTY (GFP)/ EQUIPMENT (GFE)	224
7.4.1	Initial Inventory.....	224
7.4.2	Utilities.....	224
7.4.3	Damage Caused by Contractor.....	224
7.4.4	Third Party Repair Damaged Areas.....	225
7.4.5	Equipment Replacement (Government Property).....	225
7.4.6	Forms.....	225
7.5	CONTRACTOR-FURNISHED MATERIAL (CFM)/PROPERTY (CFP)/EQUIPMENT (CFE)	225
7.5.1	Contractor-Furnished Material and Responsibilities.....	225
7.5.2	Permits.....	225
7.5.3	Contractor-Furnished Items.....	226

7.5.5	Unserviceable Contractor Equipment.....	226
7.5.6	Fuels.....	226
7.5.7	Contractor Facilities.....	226
7.6	U.S. DEPARTMENT OF LABOR WAGE DETERMINATION (DOL WD).....	226
7.7	ENTERPRISE CONTRACTOR MANPOWER REPORTING APPLICATION (ECMRA) .....	226
7.8	ECMRA REPORTING LABOR HOURS.....	227

## 1.0 Introduction

This is a firm fixed-priced requirements type non-personal services contract to provide fire alarm, fire sprinkler/suppression systems inspection, testing, maintenance, service and repair including AES transmitter installations for the U.S. Army Garrison Aberdeen Proving Ground and Adelphi Laboratory Center. The contract period of performance is for five (5) years, a base year and four option years. The Government will not exercise any supervision or control over the contract service providers. The Contractor shall perform to the standards specified in this Performance Work Statement (PWS). Contract service providers shall be accountable solely to the Contractor who, in turn, is responsible to the Government. It is within the scope of the contract that the buildings/facilities list for this requirement will increase and decrease throughout the contract term. The Contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary as defined in this PWS. The Contractor is responsible for providing all parts and materials required for systems inspection, testing, maintenance including repair.

### 1.1 Background

The fire alarm systems in facilities listed in Technical Exhibit 2A-2Z have been annually inspected, tested, cleaned, and maintained in accordance with the Unified Facilities Criteria (UFC) 3-601-02 for the last five (5) years. Exceptions are newly constructed facilities or others not requiring testing by the Unified Facilities Criteria. The Directorate of Operations (DO) responds to emergency calls and only stabilizes and isolates the systems to prevent further damage to the fire systems, government property and buildings. The Directorate of Public Works (DPW) does not staff appropriate National Institute for Certification in Engineering Technologies (NICET) Level III technicians to perform work on these systems.

### 1.2 Location

The contract work is located at Aberdeen Proving Ground (APG) located in Harford County, Maryland. The installation consists of Aberdeen Proving Ground North (Aberdeen Area), Aberdeen Proving Ground South (Edgewood Area), Churchville Test Center, Graces Quarters and Adelphi Laboratory Center (ALC).

### 1.3 Objectives

The Contractor shall ensure all work accomplished in the performance of this PWS meets all inspection, testing, maintenance, and repair standards consistent with the original equipment manufacturer's recommendations; all applicable Federal, State, and local laws, regulations, and directives to include, but not limited to, the applicable publications listed in Section 7.0, Related

Documents. The Contractor shall provide fire detection and fire suppression system inspection, testing and maintenance with repair services to the US Army Garrison APG and Adelphi Laboratory Center to assure complete functionality of the life safety systems on Aberdeen Proving Ground and Adelphi Laboratory Center.

1.3.1 The Contractor shall ensure all work in support of mission requirements tendered to the Government for acceptance conforms to the measurable performance standards of quality set forth in NFPA 72 and UFC 3-601-02, timeliness, and quantity specified in the PWS of this contract. The Contractor shall obtain/ensure subcontractors obtain all high voltage licenses, permits and NICET certifications required to perform this work under this contract. The intent is to establish work requirements that are performance-based and results oriented. This approach is intended to allow the Contractor to determine the best and most cost-effective ways to fulfill base operations and their component needs, emphasizing innovation and commercial best practices.

1.4 Climatic Conditions

The Contractor shall be cautious when working in extreme environmental conditions. The temperatures for Aberdeen, MD range from 14° to 92°, with humidity the temperatures can exceed 100°F. The Contractor is expected to practice safe working practices during extreme climatic conditions.

1.5 Facility Access

The Contractor shall ensure access to all fire detection and suppression systems in case of emergencies or for other Fire Department purposes. The Contractor shall inform the Aberdeen Proving Ground or Adelphi Laboratory Center Fire Department point-of-contact (POC), prior to outages that will impact the function of the system, special problems or circumstances, which require Aberdeen Proving Ground or Adelphi Laboratory Center inspection. The Contractor shall provide the Contracting Officer Representative (COR) with a list of the personnel assigned to provide inspection, maintenance and repair in special security buildings and areas prior to commencing work under this contract. This personnel roster shall include the employee's full name and position held. The Contractor shall update the roster whenever personnel changes occur during the duration of the contract and provide the COR with the revised roster. The Government will provide a National Agency Check (NCIC Level III Security Check) for these personnel, as necessary.

1.6 Traffic Flow  
N/A

1.7 Drainage  
N/A

1.8 Restoration of Landscape Damage -  
The contractor shall restore Trees or other landscape features, and irrigation systems damaged by the Contractor's operations during performance of this to the original state.

1.9 Dust Suppression  
N/A

1.10 Utility Location  
N/A

1.11 Excavation Permits  
N/A

## 2.0 Requirements

## 2.1 Description of Services

The Contractor shall furnish all management, tools, supplies, equipment and labor necessary to examine, restore, maintain, repair, clean, inspect, and perform testing of the following: installed facility fire sprinkler systems, kitchen fire suppression systems, fire pumps, fire pump monitoring devices and related equipment, fire sprinkler monitoring devices, aircraft hangar foam agent systems, automatic fire alarms, Fire Alarm Control Panels (FACP) including the software and associated devices, (activation, warning and auxiliary), fire alarm transmitters, receivers, electrical/electronic components of the systems. The Contractor shall provide testing and programming to facilities with Mass Notification Systems (MNS). The Contractor shall provide updated Computer-Aided Design & Drafting (CADD) (current year) drawings in a manner that will ensure fire systems serviceability and proper operation. The contractor shall list major component manufacturers and system component, the year of installation as near as can be determined, as well as Inspection, Test, and Maintenance (ITM) cycle for suppression systems. All performed work shall comply with and be in accordance with (IAW) the Unified Facilities Criteria (UFC) 3-600-01, 3-601-02, 4-021-01, National Fire Protection Association (NFPA) Standards, APGR 420-1, base requirements and the manufacturer's instructions. The UFC shall take first precedence over other guidance. Technical Exhibit 2A-2Z will show the APG and ALC facilities list and repairs shall done in accordance with the UFC 3-600-01.

### 2.1.1 Inspection, Testing and Maintenance

The Contractor shall perform operational ITM on installed facility fire sprinkler systems, kitchen fire suppression systems, fire pumps and monitoring devices, fire sprinkler monitoring devices, foam systems, various deluge systems, Carbon Dioxide systems, chemical suppression systems such as FM-200, automatic fire alarms, fire alarm panels, associated devices, (activation, warning and auxiliary), electrical/electronic components of the systems, facilities transmitter/receiver systems, alarm system software, computer systems networking, MNS in facilities along with monitoring systems IAW the UFC, applicable NFPA codes and standards, base requirements, and manufacturer's instructions. The Contractor is required to use the current version of UFC 3-601-02 standards for all ITM performed on fire detection and suppression systems in Aberdeen Proving Ground and Adelphi Laboratory Center. The Contractor shall repair or correct any minor maintenance deficiencies or impairments to installed fire suppression, fire sprinkler, automatic fire alarm system, MNS and associated components discovered during a scheduled ITM. Prior to the completion of the ITM see details in Section 2.1.7 ITM Minor Repair Parts. The Contractor is required to use the current version of NFPA 72 System Record of Inspection and Testing Technical Exhibit (TE 5 A), accurately completing all sections of the NFPA 72 and including all other forms required to provide a complete report, listing any deficiencies with the fire alarm system for all fire alarm inspections. The Contractor is required to use the current version of NFPA 25 Centrifugal Fire Pump Annual Test Form for annual centrifugal fire pump testing Technical Exhibit (TE 5 B) completely filling in all sections of the Centrifugal Fire Pump Annual Test Form with detail listing any deficiencies with the fire pump tested. The Centrifugal Fire Pump Annual Test Form is not required for monthly pump churns required under UFC 3-601-02.

### 2.1.2 ITM Program

The Contractor shall implement a planned ITM program, as defined in UFC 3-601-02. The plan shall be used to prevent and correct deficiencies with the systems, minimize system failure and service interruptions, extend component life, and maximize operating efficiency. The Contractor shall provide a weekly schedule to the COR not later than the Friday of the week prior before inspections begin and shall coordinate all scheduled ITM. Notify Directorate of Operations (DO) Fire and Emergency Services and each building occupant Point of Contact (POC) to schedule entry and access for testing dates at each facility. This coordination shall be accomplished by the Contractor prior to proceeding with any ITM or repairs on installed fire alarm, suppression, sprinkler and MNS systems and associated equipment. Contractor shall coordinate with the facility's POC not later than five (5) days in advance to confirm availability and access to the facility. At the conclusion of ITM and repair, the Contractor shall update the originally notified facility personnel of the status of the maintenance work completed for that facility. The Army mission is the top priority and could affect a scheduled ITM to cause a delay in time requirements. The COR shall be notified of all conflicts to address the testing schedule and requirements.

### 2.1.3 Notification to Conduct ITM

In addition, before initiating any scheduled test, the Contractor shall ensure the Facility Manager notifies the building's occupants. The Facility Manager may observe the ITM tests and the sequence of operation. Installed fire alarm systems (detection), extinguishing systems (suppression & sprinkler), and monitoring systems located in areas that are not readily accessible for safety considerations such as continuous process operations areas and areas that need equipment to reach system components that are congested are to be tested during scheduled operation

shutdowns. The Contractor is required to furnish their own equipment such as ladders, portable platforms, lifts or other equipment or tools necessary to properly and safely complete ITM of the systems. The tests shall be accomplished with minimal interruption to the occupying organization, and/or at intervals according to the UFC.

#### 2.1.4 ITM Schedules

The Contractor shall establish the required ITM interval for each fire protection system based on the age of the system and the information provided on Technical Exhibits 2A-2Z. The Contractor shall maintain an ITM annual schedule and provide the schedule to the COR NLT the 10th of each month, listing the dates for each building to be inspected. The schedule shall be generated based on the previously performed ITM and the UFC provided guidance. Contractor shall perform the next interval ITM service due for each facility. For facilities with fire protection systems that have not received ITM's, the contractor shall consider the facility's age or fire protection system and/or the installation date as a base line to determine the next required ITM.

#### 2.1.5 Combination Inspections

The Contractor shall perform all ITM in a facility simultaneously. Examples: when performing ITM on a fire pump that serves a building, the fire pump shall be ITM's at the same time the fire alarm panel/system is ITM's to ensure the fire pump controllers are properly signaling the FACP and transmitting to the AES/Kingfisher Receiver. Simulating conditions that cause inputs to the FACP are not authorized, the Contractor shall actually test the function of the system. NOTE: shorting or jumping contacts is not acceptable for a substitution of full functional testing. A facility shall be tested as one life safety system, not as separate components, i.e., sprinkler system separate from fire pump separate from fire alarm. The fire alarm systems technician and crew shall be on site with the fire sprinkler fitter to ensure the fire protection features in the entire facility are working as required. ITM shall not be performed on any system that is tagged out of service or is shut down for disposition of repair. The Contractor shall record out of service findings on the System Record of Inspection and Testing Form for all combination inspections and submit a Deficiency Report (DR) to the COR.

#### 2.1.6 Deficiency Reports

Deficiencies identified during an ITM are required to be provided to the COR in writing within five (5) working days after completion of inspection and listed on the weekly report. The DR shall list the date the inspection was conducted, date of DR creation and all deficiencies in detail. If a critical deficiency is identified, the Contractor is required to notify the COR immediately and tag the system with the correct NFPA 25 tag Technical Exhibit (TE 5 C). The DR will be changed to a DMO by the COR and issued to the Contractor for repair. No deficiency report shall be provided to make minor repairs specified in 2.1.8 unless the amount of material items exceeds \$300.00 dollars.

#### 2.1.7 ITM Minor Repair Parts

The Contractor shall maintain a limited stock of common repair parts on each service truck to include:

- fuses
- batteries
- smoke and duct detector heads
- horn strobe units
- pull stations
- control modules
- monitor modules
- kingfisher transmitter parts
- sprinkler heads

Above listed items are basic, simple and quick items to replace. See Technical Exhibit (TE 4 B). The Contractor shall establish repair prices for these typical repair parts to facilitate routine repair of common failure and maintenance items at the beginning of the contract. This shall be provided to the COR NLT ten (10) calendar days prior to contract award. The established value of each minor repair item shall be fixed for the contract year, with a forecasted value for each additional option year. The purpose of the ITM Minor Repair Parts CLIN is to allow immediate minor repairs to the fire detection and suppression systems during the ITM. The Contractor shall replace any life safety initiating device i.e., smoke detector head, pull station, monitor modules found inoperative prior to any routine maintenance device i.e., batteries, fuses, horn strobe, sprinkler heads. The minor repair/replacement of common repair material items under (\$400.00) dollars shall be invoiced under the ITM Minor Repair Parts CLIN.

The ITM Minor Repair Parts CLIN is strictly for material used during the ITM and itemized on the SYSTEM RECORD OF INSPECTION AND TESTING form listing the location and quantity of the materials used in detail. The labor associated with replacing the Minor repair items is incidental to and shall be factored into the ITM CLIN. No labor items will be accepted. To summarize the intention, if (\$425.00) dollars of material items are required, the Contractor shall replace up to (\$400.00) dollars of the materials as part of the ITM and submit a DR for the remaining items that need replacement. The Contractor should not spend time investigating problems if the replacement parts do not correct the issues.

#### 2.1.8 System Batteries

Generally, the basic batteries used at Aberdeen Proving Ground and Adelphi Laboratory Center in the fire alarm systems are 7/8AH, 12AH, 18AH, 26AH, 35AH, 55AH, 79AH, and 105AH batteries. This is not a complete list of batteries to be used for this contract. The new addressable fire alarm systems may have different size or type batteries installed. Replacement of system batteries is required IAW the guidance stated in the UFC and NFPA. The labor associated with replacing batteries is incidental to and shall be factored into the overall cost of the ITM see section 2.1.8. All supplied batteries shall be new. Reconditioned batteries are not permitted. All battery replacements are required to have a label attached to each battery indicating the contractor name, date of manufacture, installed date and date for recommended replacement – this should be five (5) years from install date. No batteries with a 6-month exceeded manufacture date shall be installed. If the Contractor installs a 6-month exceeded battery, the contractor shall immediately replace the battery at no additional cost to the Government. Large System Batteries above 150AH are not considered in the basic battery list. The contractor shall provide a DR to the COR listing the location where Large System Battery replacements are needed for a DMO repair order entry.

#### 2.1.9 Fire Pump Maintenance

As part of the ITM monthly fire pump runs required in UFC 3-601-02, the contractor fire pump runs shall develop a maintenance plan according to the manufacturer recommended maintenance intervals and NFPA 25, to provide maintenance on all fire pump manufacturers, makes, and models. This plan shall be provided to the COR not later than 45 days after contract award and each month thereafter while the contract remains in effect, for COR review. This effort may require the contractor to subcontract maintenance to a mechanical company to perform the required maintenance. If the contractor subcontracts maintenance, the subcontractor shall be factory authorized and certified by the pump manufacturer to perform maintenance on the fire pump. This subcontracting effort shall be the responsibility of the Contractor. Managing costs for subcontracting shall be the responsibility of the Prime Contractor and should be factored into the contractor's overhead costs, the appropriate contract CLIN's are to be used for repair cost. If a subcontractor is used by the Prime Contractor, the contractor will not get additional payment for the cost of their subcontractor. Specifically, the Contractor can only add 10% overhead and profit to the proposed price from the sub-contractor to complete the repair, no other fees are acceptable. The maintenance shall include oil changes, antifreeze changes, block heater replacements, hose replacements, inboard and outboard packing replacements, motor bearings, air filter changes, RPM verification, wear rings, main shaft play, drive coupling, fuel injectors, fuel filter, grease fittings and all other items associated with the fire pump and engine.

#### 2.1.10 Kitchen Hoods

The kitchen hood exhaust fire suppression systems shall be cleaned and serviced (ITM) at six (6) month intervals as stated in the UFC. This contract does not include cleaning or ITM of non-DOD hoods installed on APG and ALC.

#### 2.1.11 Kitchen Hood Exhaust system

Contractor shall maintain kitchen hood exhaust fire suppression systems with alarm interconnects on an ITM schedule. The ITM and repairs shall ensure maximum operational capability. All work shall be performed in accordance with the UFC, applicable NFPA codes and standards, base requirements and manufacturers' standards and recommendations.

#### 2.1.12 Inventory Database

The Contractor shall maintain an Excel database that will be populated with a complete detailed inventory of installed fire protection and fire detection systems per building to the COR. This database shall include building



number, occupancy type, number of stories, fire protection systems make, model, year installed (if available), ITM date (monthly/yearly), riser location in building Fire Alarm Control Panel (FACP) make and model, subpanel / releasing panel make, model, year installed (if available), ITM date (monthly/yearly) and location in building. This database is intended to be a living document and shall be provided monthly NLT the 10th working day of each month to the COR.

#### 2.1.13 Weekly and Monthly Reports

The Contractor shall maintain a record of the reports for ITM and repairs for each contract year by month. The Contractor shall submit these reports electronically to the COR by the tenth (10th) working day of the month following the month that the work was performed prior to invoicing. The monthly report shall contain the actual cost breakdown and labor hours used and a summary of all work performed. The additional parts and materials costs shall be charged under the appropriate CLIN and shown on the report. A separate CLIN Tracker shall be developed and utilized for each CLIN. The report shall include the employees name and job title who did the work and if the work was subcontracted. The additional parts and material costs will be invoiced at the listed reasonable cost not to include surcharges or overhead costs of any kind. In summary all ITM maintenance and repairs mentioned in this PWS shall be a consolidated on the monthly report. The report shall list all buildings inspected during the monthly cycle and what buildings were not inspected according to the annual ITM schedule.

#### 2.1.14 Service Delivery Plan

Develop and provide a service delivery plan to the COR for review within 30 calendar days after the date of award. The Contractor shall maintain, update, and edit the provided service delivery plan as changes occur. The Contractor shall submit to the COR the revised service delivery plan whenever changes occur. Technical Exhibit 2A-2Z; provided by the Government, identifies the list of service and schedule required, in service/out of service, building numbers, address and square footage of facilities that require ITM and will serve as the basis to develop a work schedule for the service delivery plan. The following shall be addressed in the service delivery plan: management (staffing matrix, training, and maintaining qualified personnel), operational procedures for the delivery of required services including the facility scheduling, quality control plan, fire pump maintenance plan, safety plan, purchasing plan, ITM schedule in section 2.1.5, environmental management, and record keeping and reporting.

#### 2.1.15 AES Transmitters

##### 2.1.15.1 AES Project Overview

2.1.15.1.1 Provide all plant, labor, materials, equipment and supervision to perform all work necessary to remove and replace the Kingfisher Fire Alarm Transmitter located in various buildings on Aberdeen Proving Ground (APG) Maryland. Total installed AES transceivers are in Technical Exhibit (TE 3C,3D)

2.1.15.1.2 The contractor shall remove all Kingfisher equipment, related devices and antenna. All existing conduit, hangers, coaxial cable shall be removed and disposed of by the contractor.

- Provide testing of the completed fire protection system transceiver per the Unified Facilities Criteria (UFC) 3-601-02. <https://www.wbdg.org/FFC/DOD/UFC/ufc 3 601 02 2010.pdf>

2.1.15.1.3 Install a new AES Mesh model 7788F-ULP-P Transceiver and antenna system to monitor the fire protection system.

##### 2.1.15.2 AES Work Description

2.1.15.2.1 Perform a site survey of the building that the government has scheduled for replacement. Contractor will notify the government of all potential issues related to access, to include aerial obstructions and other interior problems including the Fire Alarm Control Panel (FACP) reporting capabilities. The Contractor shall gather all zone/point data to provide to the COR for data entry into Computer Aided Dispatch (CAD).

2.1.15.2.2 Kingfisher transmitters shall remain in-service until acceptance testing is performed by the Aberdeen Proving Ground Fire Department (APG-FD) on the new AES transceiver. This requirement shall not apply if the building is under total renovation.

- Common installations with the new AES transceiver will be installed per the manufacturer's recommendations near the location of the Fire Alarm Control Panel (FACP) or existing Kingfisher. All AES installations will be installed per NFPA 70E electrical code. All 120 VAC power shall be clearly marked and circuit breakers and or panels identified per the UFC and NFPA Codes and Standards.

2.1.15.2.3 The Contractor shall install the new AES transceiver using Contact ID reporting on existing Fire Alarm Control Panel's containing digital dialer's capable of reporting Contact ID. The contractor shall provide the current Points list from the Fire Alarm to the COR five (5) days prior to the installation date for data entry.

2.1.15.2.4 If Contact ID reporting is not possible, the Fire Zone programming of the new AES transceiver shall be per the APGFD Standard Zone List as follows: Zone 1 General Fire/Pull Stations, Zone 2 System Trouble, Zone 3 Supervisory, Zone 4 Sprinkler Water Flow, Zone 5 Smoke/Heat detectors, Zone 6 Mass Notification System, Zone 7 Chemical/Surety.

2.1.15.2.5 The Contact ID, Zone List programming reporting method will be strictly adhered to and may not be changed without permission from the APG-FD

2.1.15.2.6 The Contractor shall install new coaxial cables that are properly sized for the run distance. The coaxial cable shall properly match per the AES guidance to alleviate high Standing Wave Reflections (SWR) and signal attenuations. Exterior coaxial installations shall be protected from sun damage and penetrations sealed with UL Listed fire caulk or sealtite. Minimum distance for all antennas is 36" in height at the eave or peak of the roofline. The antenna shall be mounted to maintain a minimum 36" clearance in all directions. All antenna risers will be galvanized with stainless hardware. The antenna shall be securely mounted to operate in high wind and ice conditions. Outdoor weather head installations are not permitted on outdoor antenna installations. Coaxial cable shall not be coiled and shall be installed to the proper length.

2.1.15.2.7 The new AES 7788F-ULP-P Transceiver frequency shall be provided by the government. No other transceiver or transmitter may be substituted. Factory programming shall be performed by local factory certified technicians.

### 2.1.15.3 AES Training

The Contractor shall attend the monthly virtual training event prior to installing any AES Transceiver and every (6) months thereafter, providing the training completion certificate to the COR within (1) week after successful training completion. This training is provided free of charge by AES to assure proper techniques and methods for installation, function, and reliability of the AES mesh network. Proper antenna placement is key to system reliability and function. If the building has a metal roof or metal siding, an outdoor antenna is required. NO metal shall be permitted above the antenna ground plane and NO metal within 18-inches of the antenna. AES has advised that a NETCON 5 value is required, and the signal acknowledgement shall be received within a maximum of 4 seconds. The Government shall not be responsible for any cost incurred by the Contractor in an effort to complete this requirement.

### 2.1.15.4 AES Completion Report

Upon completion of an AES transceiver the QCM shall inspect each AES on-site to ensure proper antenna placement, installation, and functionality prior to scheduling the final inspection and acceptance test with the APG-FD. The QCM shall contact the APG-FD and COR to schedule an acceptance test after verification of functionality and PWS compliance. The QCM shall be present on-site during the acceptance test. The AES completion report shall list the Contractor name, contract number, AES account number, option year, date AES proposal approved, date AES was completed, Contact ID or Zone list usage, date inspection was performed with APGFD, time in and out onsite each day(s) for installation, number of technicians onsite each day including each employee name during installation, site survey, APGFD inspector, building construction, indoor or outdoor antenna, detailed description of any problems with the AES installation, FACP make, FACP model and FACP condition upon departure. The Contractor shall also indicate on the report all existing Kingfisher equipment, related devices, antenna, existing

conduit, hangers, coaxial cable were completely removed. The QCM, after verifying all installation requirements have been met, and the existing KF equipment is removed, shall sign and date the AES completion report and submit the report to the COR within five (5) days.

#### 2.1.16 Non-Personal Services

The personnel rendering of theseM services are not subject either by the contract's terms or by the manner of its administration, to the supervision and control usually prevailing in relationships between the Government and its employees. Non-personal service contracts are authorized by the Government in accordance with (IAW) Federal Acquisition Regulation (FAR) Subpart 37.104, under general contracting authority, and do not require specific statutory authorization.

### 2.2 General Information

#### 2.2.1 Transition (Phase In/Phase Out)

The contractor shall commence all operations required by this PWS as of the first day of the contract period. Therefore, on the initial day of performance, the contractor shall provide a work force who are fully qualified and capable of performing all work required under this contract.

##### 2.2.2 Phase-in

The contractor shall prepare and submit (within ten (10) business days after contract award), a Phase In/Phase Out Plan to be implemented by the Contractor; to include access with the appropriate Government organizations. The contractor shall provide sufficient experienced personnel during the phase-in and phase-out period to ensure that the services are maintained at the required level of proficiency. During the phase-in, the contractor shall observe all operations necessary to complete the requirements of the PWS, to include office functions, procedures, and operations, repair/maintenance operations, and any other operations as deemed necessary by the Contractor that will enable Contractor personnel to become both knowledgeable in, and familiar with, their assigned areas of responsibility.

##### 2.2.3 Phase-out

During the 30-business day transition period immediately prior to completion of the contract, the contractor shall permit the successor contractor (and the successor contractor's employees) an opportunity to observe and become familiar with the operations required under the contract. The contractor shall not defer any needed repairs or maintenance for the purpose of transferring responsibility to the successor contractor. The contractor shall fully cooperate with the successor contractor and the Government during the phase out period to prevent disruption in the work facility.

#### 2.2.2 Place of Performance and Hours of Operation

##### 2.2.2.1 Place of Performance (expanded description)

The work to be performed under this requirement will be performed throughout the entire area occupied by Aberdeen Proving Ground, Adelphi Laboratory Center and at any pertinent locations in and around Aberdeen Proving Ground. A map of Aberdeen Proving Ground North and South-Edgewood and Adelphi Laboratory Center is located in Technical Exhibit (TE 1 A) (TE 1 B) (TE 1 C).

##### 2.2.2.2 Hours of Operation

The contractor shall perform the ITM services required of this contract between the hours of 08:00am to 05:00pm, Monday through Friday, excluding Federal holidays or during Government facilities closures because of local or national emergencies, administrative closings, security concerns or similar Government directed facility closures. The Contractor shall maintain an adequate workforce for the uninterrupted performance of all tasks defined within this PWS during Government operations. A Directorate of Public Work (DPW) Work Reception (WR) will be operated 24 hours a day, 7 days a week and will be available to response to DMOs and/or customer requests outside of standard working hours.

##### 2.2.2.3 Installation Closures

When an unforeseen installation closure occurs on a regularly scheduled day of work, the Contractor shall reschedule the work to the next business day. .

#### 2.2.2.4 Inclement Weather Delay

If the Contractor determines unsafe weather conditions for continued operations, the Contractor shall notify the KO and designated Government representative/COR two (2) hours prior to curtailing operations due to inclement weather. The Contractor shall obtain KO/COR approval to resume operations.

#### 2.2.2.5 Emergency Coordination

The contractor shall coordinate with the COR or alternate COR in preparation for and during emergency operations such as inclement weather, flood, active shooter, fire, or other emergency situations. The contractor may be called upon to deliver a wide variety of fire alarm and fire suppression services to the installation through an emergency DMO in support of emergency response. The contractor shall be required to provide all normal services during an emergency response unless otherwise directed by the KO, however, emergency response requirements will take precedence over normal DMO activities.

#### 2.2.2.6 Federal Holidays

Contractor shall not work on the Federal public holidays listed below. Holidays occurring on weekends will be observed as directed by the Federal calendar (5 U.S.C. 6103).

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

#### 2.2.2.7 Travel/Temporary Duty - N/A

### 2.3 Operations

#### 2.3.1 Emergency Medical Treatment

The contractor or their employees shall immediately notify their supervisor of any accident requiring emergency medical treatment. The contractor shall notify the KO and DESignated Government representative/COR no later than (NLT) 1 hour of the incident. The contractor shall be responsible for the emergency medical treatment services for contractor personnel. However, the Government will provide, on an emergency basis, medical services for injuries incurred while an employee is performing under the contract. The contractor shall reimburse the Government for emergency medical services provided, upon receipt of invoice from the medical facility. Reimbursement shall be made to the US Government.

#### 2.3.2 Accident Reporting

The contractor shall comply with Operational Safety and Health Administration (OSHA) and EM 385-1-1 for record keeping and reporting all accidents resulting in death, injury, occupational disease, or adverse environmental impact and shall maintain the required records to accurately document all events. The contractor shall provide a verbal report to the KO and designated Government representative/COR(s) within one (1) hour of each occurrence. Contractor shall provide a completed original copy of the ENG Form 3394, United States Army Corps of Engineers Accident Investigation Report (or equivalent reporting form) to the KO or designated Government representative/COR(s) within five (5) calendar days of each occurrence, whenever an accident involving personal injury or Government owned property occurs.

### 2.4 Contract Administration and Management

#### 2.4.1 Post Award Conference/Performance Evaluation Meetings

The Contractor shall attend the post award conference convened by the Contracting Activity as agreed upon and stated in the contract award document. The COR and DPW management will meet monthly with the contractor to review the contractor's performance and service delivery. The contractor shall coordinate and send invitations for

reoccurring monthly meetings. The contractor's meeting agenda shall include the following: inspection schedule, DMO repair schedule, pending DMO repairs, RFI's, proposal status, DMO/Inspection issues, access issues. This list is not all-inclusive and other critical items requiring immediate attention may be included in the meeting agenda. Written minutes of all meetings will be recorded by the Contractor and signed by the Project Manager (PM) and the COR. The written minutes will be distributed to the PM, KO, and attendees, within five (5) business after the meeting. If the Government does not concur with any portion of the minutes, as recorded by the Contractor, the non-concurrence shall be provided in writing by the KO/COR within two (2) workdays following receipt of the minutes. Notwithstanding the contractor's responsibility for total management during the performance of this contract, the administration of the contract requires maximum coordination and cooperation between the Government and the Contractor.

2.4.2 Roles -- The following provides the roles and their respective authority during the performance of the contract:

#### 2.4.2.1 Contracting Officer (KO)

The KO is the only person authorized to make any changes in any of the requirements listed on this PWS; notwithstanding any provisions contained elsewhere in this contract, said authority remains solely with the KO. In the event the contractor makes any change at the direction of any person other than the KO, the change will be considered to have been made without authority and solely at the risk and expense of the Contractor. All contract administration will be effected by the KO. Communications pertaining to contractual administrative matters shall be addressed to the KO. No changes in or deviations from the terms and conditions shall be effected without a written modification to the contract, executed by the KO authorizing such changes. The KO will approve all submittals and plans required in this PWS.

#### 2.4.2.2 Contracting Officer's Representative (COR)

The KO will appoint a COR and an alternate COR during the performance of this requirement. Additional Government personnel may be designated to assist in contract oversight IAW (Army Regulation) AR 70-13, Management and Oversight of Service Acquisitions. Other surveillance personnel may be designated as COR and shall be trained and appointed IAW Department of Defense Instruction (DoDI) 5000.72, Department of Defense (DoD) Standard for Contracting Officer's Representative (COR) Certification. The COR will provide assistance in identification and resolution of problems, conflicts in priority, subtask requirement definitions, and other operations type problems. The COR will perform IAW the responsibilities and duties identified in the appointment letter.

#### 2.4.2.3 COR Authority

A letter of designation will be issued to the COR by the KO. A copy of the letter will be sent to the contractor. The letter of designation states the responsibilities and limitations of the COR, especially about changes in cost, price estimates, or changes in delivery dates. The COR is not authorized to change any of the terms and conditions concerning cost, quantity, or schedule of the resulting order. The COR has authority to approve any DMO repair under \$3,000.00 dollars.

#### 2.4.2.4 COR or designated Government Representative Functions

The COR or designated Government representative shall monitor all technical aspects of the contract and assists in contract administration. The COR or designated Government representative is authorized to perform the following functions: assure the Contractor performs the technical requirements of the contract; perform inspections necessary in connection with contract performance; maintain written and oral communications with the contractor concerning technical aspects of the contract; issue written interpretations of technical requirements; monitor, document, and report Contractor's performance and notify both the KO and Contractor of any deficiencies; coordinate availability of Government-Furnished Property (GFP), as issued, and provides direction or assistance for site entry requests of Contractor personnel.

- 2.4.2.4.1 The Contractor shall not in any way represent the United States (U.S.) Government, or that it has the authority to contract or procure supplies for the account of the United States of America (USA).

#### 2.4.3 Contractor Key Personnel

Shall be designated in writing to the KO at the start of the contract. These key personnel shall be available 24/7/365 including Federal holidays. These individuals designated as key personnel shall be able to understand, speak, read, and write the English language.

#### 2.4.3.1 Project Manager

The Contractor shall provide a Project Manager (PM) who is responsible for the performance of the work. The PM shall have full authority to act for the Contractor on all contract matters relating to daily operation of the contract. The PM shall have a baccalaureate degree from an accredited College or University and five (5) years of experience in base support management or a contract similar in scope and breadth to this solicitation. The name of the PM shall be provided to the KO and shall be present and on-site and available during normal duty hours. In the circumstances when the PM is not available, the contractor shall designate an alternate who can perform the same duties during the absence. The alternate PM shall have the same qualifications and experience as the Primary PM.

#### 2.4.3.2 Operations and Maintenance Superintendent (O&M Superintendent) -- N/A

#### 2.4.3.3 Quality Control Manager (QCM)

The Contractor shall designate a full-time QCM who shall be on site during normal duty hours. At a minimum, the QCM shall possess a Craftsperson Journeyman Level III certified in Inspection Testing of Water Based Systems with five (5) years' experience in inspection and testing of water-based systems or National Institute for Certification in Engineering Technologies NICET Level III certification in Fire Alarm Systems. The QCM shall be proficient in quality data analysis, quality auditing, statistical sampling, and subcontractor quality control. The QCM shall have at least five (5) years of relative experience and shall be responsible for the overall management and implementation of the Contractor's Quality Control Plan. The QCM shall supervise all work performed and shall inspect all DMO repairs and ensure all corrections are completed before DMO completion notices are sent to the Government. The QCM shall have full written authority to act for the contractor on all CQC matters. The QCM's responsibilities include but are not limited to:

- Controlling the quality specified in the scope and specifications.
- Enforcing Code requirements and regulations
- Developing and maintaining an effective CQC system.
- Stopping work.
- Performance of all control activities and tests.
- Preparation of acceptable documentation of CQC activities.

The QCM shall be designated in writing with a letter signed by an officer of the firm appointing the QCM and stating the assigned QCM is responsible for implementing and managing the QC program and has authority to implement and manage all functions related to quality control of all services provided herein listed in this contract and has the authority to stop work which is non-compliant with the contract. The contractor shall include copies of appointment letters in the QC Plan.

#### 2.4.3.4 Quality Control Inspectors (QCI) -- The QCM is required to perform the duties of the QCI as required.

#### 2.4.3.5 General Fund Enterprise Business System (GFEBS) Project Manager -- N/A

#### 2.4.3.6 GFEBS Certification -- N/A

#### 2.4.4 Contractor Requirements:

##### 2.4.4.1 U.S. Residency

All Contractor employees shall be legal U.S. residents. The Contractor shall immediately remove any employee that is not a legal U.S. resident. The Contractor personnel shall be able to communicate clearly in the English language.

##### 2.4.4.2 Qualification Standards

The Contractor shall inspect, repair, and maintain all fire alarm and fire suppression systems and components associated with facilities listed in real property records as required throughout this contract utilizing NICET certified, properly trained, skilled, and qualified employees or subcontractor personnel.

#### 2.4.4.3 Contractor Identification

The Contractor shall ensure that personnel be identified as a Contractor to distinguish themselves (e.g., badge, company logo, or uniform) from Government employees. The contractor shall ensure all correspondence and reports produced are marked as Contractor products or that contractor participation is disclosed. Contractor owned/leased vehicles and equipment should be identified.

#### 2.4.4.4 Standards of Conduct

Contractor personnel's conduct shall not reflect discredit upon the Government. The contractor shall ensure all personnel present a professional appearance while working on the Government installation. The Contractor's employees shall observe and comply with all local policies and procedures concerning fire, safety, environmental protection, sanitation, security, and possession of firearms or other lethal or illegal weapons or substance. The contractor shall ensure all contractor employees, providing services under this contract, conduct themselves and perform services in a professional, safe, and responsible manner. The contractor shall remove, from the job site, any employee for reasons of misconduct or security. The contractor shall ensure employee conduct complies with 41 USC 423, Procurement Integrity. The contractor shall also ensure that no contractor employees conduct political related activities or events on the installation. The removal of such a person shall not relieve the contractor of the requirement to provide personnel to perform adequate and timely service.

#### 2.4.4.5 Contractor Hiring Restrictions

The contractor shall not hire or sub-contract with off-duty or former Government employees whose employment would result in a conflict with AR 600-50, Standards of Conduct.

#### 2.4.5 Business Relations

The contractor shall successfully integrate and coordinate all activity needed to execute the requirement of this PWS. The contractor shall manage the timeliness, completeness, and quality of problem identification to a degree acceptable to the Government. The contractor shall provide to the KO corrective action plans, timely identification of issues, and effective management of subcontractors. The contractor shall ensure customer satisfaction and professional and ethical behavior of all contractor personnel.

#### 2.4.6 Manual Operations -- N/A

#### 2.4.7 Interactive Customer Evaluation (ICE) -- N/A

### 2.5 Work Management

#### 2.5.1 Overhead and Profit

The Contractor is permitted to include a firm-fixed overhead and profit percentage that includes all contracting efforts, i.e., coordination, escorting, travel time, administrative, investigation, testing, scheduling, and invoicing. The firm-fixed percentage shall be included on all DMO repair proposals and factored off the total DMO repair proposal and shown on one (1) individual line item on the DMO repair proposal. Any indirect contractual costs shall be factored into the OH&P. The Contractor is not permitted to bill for any of the OH&P items or indirect contractual costs additional to the firm-fixed percentage.

#### 2.5.2 Unscheduled Service Calls

An unscheduled service call is an onsite response to a designated location, within an allotted timeline, for services that require immediate attention without a DMO. Unscheduled service calls are not common but require immediate attention. The Contractor shall notify the COR and facility occupants before proceeding with any service on installed fire suppression and automatic fire alarm systems, kitchen fire suppression systems and all associated equipment that will affect the occupants of the building. At the conclusion of the service call, the previously notified personnel and the COR shall be informed of the status of the equipment. System resets and replacement of batteries and fuses for trouble calls does not require notification to the building occupants but does require notification to the building engineer or facility manager. The COR will create a DMO for the unscheduled service call.

#### 2.5.3 Response to Unscheduled Service Calls

The Contractor shall respond to unscheduled service calls and be on site within (1) hour of notification. An unscheduled service call should not exceed eight (8) hours in duration. The Contractor shall attend to any condition that requires immediate action to eliminate hazards to personnel, prevent loss or damage to government property, restore essential services or as determined by the Government. Otherwise, the Contractor shall proceed to the work location and survey the needed repair, and within (2) workdays provide to the COR an estimated time and cost of repairs. The Contractor shall also inform the COR of projected downtime and estimated time for repair. The Contractor shall commence the repair work after approval from the COR. All repair work shall be accomplished in accordance with the UFC, applicable NFPA Standards, base requirements, and the manufacturer's instructions. The contractor shall work to correct the identified deficiency within seven (7) business days after COR approval and shall be completed in accordance with 2.6.2

#### 2.5.4 Work Clearance

The Contractor shall submit a DMO repair proposal to the COR for evaluation prior to performing any repairs. ITM material items, valued at less than \$400.00 dollar shall be billed under the ITM Minor Repair Parts CLIN, see section 2.1.8. The contractor shall commence with DMO repair work after approval from the COR or the KO if the repairs exceed \$ . All DMO repair work shall be accomplished in accordance with the UFC, applicable NFPA Standards, base requirements, and the manufacturer's instructions. The contractor work to correct and repair the identified deficiency shall begin immediately on Priority 1 Emergency DMO and seven (7) business days for Priority 2-3 DMO after COR approval and completed in accordance with 2.6.2 DMO Call Receipt and Entry. Upon completing the repair of the problem condition, the technician/contractor shall notify the building occupants and the COR. Technicians that modify, manipulate programming, disconnect and reconnect/replace components, or change electronic components inside a FACP shall be trained and authorized by the product manufacturer to perform the work they are doing. It shall be the contractor's responsibility to establish system coverage for ITM and repair for proprietary systems. Repairs to a Tier 1 building shall be accomplished within eight (8) hours, if possible, and requires an immediate response during working hours.

##### 2.5.4.1 Work Status

The status of all assigned work shall be submitted to the designated Government representative/COR within four (4) hours of contractor receipt of request during normal working hours, and within eight (8) hours at all other times. For emergency DMOs, the Contractor shall respond within ten (10) minutes to any inquiries from the KO, COR, Quality Assurance Representatives (QAR), and DPW management regardless of when the request is made.

##### 2.5.4.2 Work Standards

The technical specifications within this PWS define the quality of inspections, testing, maintenance, and repairs accomplished under this contract. When a standard is not directed, the contractor shall perform required work to meet industry trade customs and practices and manufacturer's recommendations. If floors, cabinets, appliances, foundations, and other items are removed to gain access to the system component to be repaired, the contractor shall return any repaired area to a condition comparable to the original construction after repair work is completed. Any Government or occupant owned property damaged by the contractor shall be repaired or replaced immediately at the contractor's expense.

#### 2.5.5 General Fund Enterprise Business System (GFEBS)

GFEBS is the web-based asset and accounting system for the Government. The Government will use GFEBS as a production scheduling and monitoring system for determining the status of work, maintenance, and repair expenditures against individual facilities. GFEBS is the official system of record for all Real Property Maintenance Activity (RPMA). NOTE: the Primary GFEBS input will be accomplished through the DPW Work Reception (WR) desk and COR.

#### 2.5.6 Disposal

All refuse generated by this contract shall be legally disposed of, meeting all Federal, State, county, and Installation guidelines for disposal (including disposal of hazardous materials). Hazardous waste materials shall be disposed of IAW applicable Federal, State, and local statutes. Refuse shall be disposed of on a regular basis to ensure a neat and orderly appearance of the contractor's area of responsibility and its surrounding areas. Roll-offs shall be used for large quantities of refuse. Large and bulk items shall be broken down to maximize the roll off dumpsters' capacities. The burning of debris, waste material, and other salvageable items is prohibited on the Installation. The contractor may be able to use Government provided recycling containers as available strictly for recyclable materials accepted



by the Recycling Service Contract in effect at the time. Papers, plastics 1-7, aluminum and tin cans shall be recycled. Any misuse of the recycling containers shall be corrected by the contractor as directed by the DPW or the applicable Quality Recycling Program (QRP) representative, the recycling Contractor, or the COR.

2.5.6.1 The Contractor shall comply with Executive Order 13693, Planning for Federal Sustainability in the next decade, for diversion of construction and demolition (C&D) materials and debris from landfills refer to Technical Exhibit (TE 6 A).

#### 2.5.7 Environmental Requirements

The Contractor shall comply with all environmental requirements, including the most current installation regulation APG 200-1 (Environmental Quality Control). The APG Environmental Division will review the Plan and provide any necessary corrections or additions to the Contracting Officer or their representative. APG Regulation 200-1 will be provided upon request.

2.5.7.1 Particulate Matter -- N/A

2.5.7.2 Construction (Storm Water) permits -- N/A

2.5.7.3 Utility Clearances -- N/A

#### 2.5.7.4 As-Built Drawings

When the fire alarm system is modified, the Contractor shall produce an updated drawing to support accurate ITM. The contractor shall update drawings depicting the actual fire alarm system and include any updates and changes to reflect modifications made to the structure or fire alarm system and associated equipment to the COR. Some facilities on this contract do not have an as-built or CADD drawing to support testing ITM. The contractor shall develop basic CADD drawings, device inventory, and location list to assist with future ITM depicting the actual fire alarm system and associated equipment. The intent of these basic CADD drawings, or information are to expedite future testing. The labor cost for this information is considered part of routine testing and shall be maintained inside the FACP at all tested buildings. The contractor shall refer to the as-built drawings for each instance that work performed impacts existing real property. When discrepancies in drawings are found during work, the Contractor shall update the drawings to reflect the current system configuration. All CADD drawings shall be in the latest Bentley's MicroStation CONNECT version format (\*.dgn).

#### 2.5.7.5 Maintenance of Work Site

The contractor shall, at the end of each day and completion of the job, remove from the work area, , all waste material, and by-products resulting from work performed. The contractor shall ensure all job sites are secured during inclement weather to avoid damages or windblown materials.

#### 2.5.7.6 Installation Recycling Program

The Installation Recycling Program is a resources conservation effort managed and operated by the DPW-ENV IAW DoD regulations.

#### 2.5.7.7 Actions and Delivery

The Contractor shall dispose of any scrap metal, pallets, and excess serviceable lumber.

#### 2.5.7.8 Facilities, Systems, and Equipment Identified for Future Replacement

Regardless of whether specific facilities, systems, or equipment have been identified for future replacement by the Government, the contractor shall perform maintenance and repair of the equipment as outlined in this PWS, unless otherwise directed by the KO. Specifically, facilities regardless of demolition status will have ITM performed until demolished or under current demolition.

#### 2.5.7.9 New Components

New fire alarm components shall be replacement in kind, match or exceed existing components in both manufacture and quality. If replacement parts are no longer available, the UFC and all applicable codes will apply to the new system or parts. New components for Historic Buildings shall be reviewed and approved by DPW-ED, historic resources. Buildings identified in Technical Exhibit (TE 4 B), Historic Real Property Inventory as a historic building

or structure shall have all work comply with the National Historic Preservation Act, Section 106 (<http://www.achp.gov/work106.html>) and the Secretary of Interior Standards of Treatment of Historic Properties (<https://www.nps.gov/tps/standards.htm>).

#### 2.5.7.10 Used King Fisher Components

The government may provide in some circumstances a used Kingfisher transmitter to relay fire alarm information to the central dispatch center. It is understood that this equipment shall not be covered by a warranty of any kind. Installation of the government furnished equipment shall be IAW with all applicable standards. This does not relieve the contractor from providing a workmanship warranty and does not include new Kingfisher products. The contractor shall request from the COR the King Fisher parts as needed.

#### 2.5.7.11 Energy Conservation Standards -- N/A

### 2.6 Demand Maintenance Orders (DMOs)

#### 2.6.1 Directorate of Public Work (DPW) Work Reception (WR)

The DPW Work Reception (WR) desk filters all requested DMO for all DPW repair requests Post wide .

#### 2.6.2 DMO Call Receipt and Entry

The DPW WR assigns all DMO priorities and enters the DMO into GFEBS. All DMOs shall be executed by the Contractor within the following timelines after receipt from COR:

- Priority 1 (Emergency) The Contractor shall respond immediately during regular work hours to receipt of the DMO from the COR. DMOs are classified as Emergency (Priority 1) when immediate action is required to eliminate life threatening or serious injury hazards to personnel. These DMOs are responded to as soon as possible and no later than one (1) hour after the request. Emergency/Critical DMOs are completed within eight (8) hours of request unless the urgency of the work has been reduced to a Priority 2 or 3.
- Priority 2 (Urgent) These DMOs shall be completed by the contractor within seven (7) business days from COR approval, unless reduced to a Priority 3.
- Priority 3 (Routine) These DMOs shall be completed by the contractor within 30 calendar days from COR approval.

#### 2.6.3 DMO Major Repair Deficiencies

Major repair deficiencies shall be reported daily as discovered and on the weekly and monthly report. Repair deficiencies shall be identified to the COR to determine the necessary corrective action and required urgency. The Contractor shall immediately provide in writing the listed major repair deficiencies. The Contractor shall also inform the COR of projected downtime and the estimated time to complete the repair.

#### 2.6.4 DMO Repair Proposal

All DMO repair proposals shall be prepared and submitted by a senior level NICET Level III with minimum 5-years' experience. The contractor shall investigate the cause of the reported DMO deficiency to accurately provide the scope of repair to the Government. All Priority 1 DMO Emergency repair proposals shall be provided within the same day, 24 hours of DMO issue. All Priority 2-3 DMO repair proposals shall be submitted within (7) calendar days after the DMO was issued to the Contractor. The time spent investigating the DMO to generate the repair scope shall be included in the DMO repair proposal. No proposal for only investigations shall be submitted for any DMO. All DMO repair proposals shall list the contractor name, contract number, DMO number, option year, date the DMO was issued to the contractor, date DMO repair proposal created, DMO problem description, FACP condition upon arrival, site survey, scope of the repair, detailed individual material items including manufacturer part numbers with quantity (LOT items will not be accepted), product submittals and material data/cut sheets are required for each material item listed in the estimate. itemized labor to perform each task listed in the scope (total estimated labor to perform the scope in its entirety will not be accepted, or grouped labor to perform multiple repairs), overhead and profit shall be a firm fixed amount and consist of all contracting efforts i.e., coordination, escorting, travel time, administrative, testing, scheduling, and invoicing. Trip charges and labor rates shall be provided prior to contract award to the KO and COR for evaluation. The Government reserves the right to approve

or reject any DMO repair proposal provided by the Contractor at any time for any reason. All DMO repair proposals shall be valid for 90 days from submission date.

#### 2.6.5 Completed Work

All DMO proposal repair completion notices shall list contractor name, contract number, DMO number, option year, date the DMO was issued to the contractor, date DMO proposal approved, date DMO was completed, individual date(s) repairs were made, materials used, time in and out onsite each day(s) services were performed, number of technicians onsite each day including each employee name, DMO description, site survey, Scope of repair, time system called in and out of service, DO operator name and detailed description of repairs performed including the FACP condition upon departure. The project QCM shall review the repair completion notice and verify the repairs were satisfactorily completed to the scope of work and UFC 3-600-01, UFC 4-021-01, NFPA 72, NFPA 70. The QCM will be required to inspect and sign off on the DMO proposal completion notice advising that the work was inspected by the QCM and completed correctly to the standards. If the system is modified during the DMO repair the QCM shall provide the required CADD drawings with the DMO repair completion notice according to section 2.12.

#### 2.6.6 Materials

After any DMO repair any material items not used are to be removed from the DMO proposal including the itemized labor to perform the item replacement and resubmitted to the Government within (2) business days for processing along with the DMO Proposal repair completion notice. The contractor shall be responsible to provide all necessary materials required for DMO repair work.

#### 2.6.7 Subcontract Work

The contractor is expected to be capable of performing all types of repairs to all manufacturers, makes, and models of fire detection and protection equipment in facilities on APG. This may require the Prime Contractor to subcontract some work to factory authorized representative contractors for some manufacturers, makes, and models of fire protection equipment. The Prime Contractor shall perform at a minimum 80% of all issued DMO repair orders per contract year, only 20% of all DMO repairs shall be subcontracted. The percentage of DMO orders subcontracted shall be tracked on the monthly report according to section 2.1.14. Managing costs for subcontracting shall be the responsibility of the Prime Contractor and shall be factored into the contract overhead costs. If a subcontractor is used by the Prime Contractor, the Prime Contractor will not get additional payment for the cost of their subcontractor. Specifically, the Prime Contractor is permitted to add a maximum of 10% overhead and profit to the proposed price from the subcontractor to complete the repair. No other fees i.e., coordination, escorting, travel time, administrative, investigation, testing, scheduling or additional labor for the Prime Contractor will be accepted. The subcontractor's proposal to the Prime Contractor shall be provided to the COR with every DMO Repair Proposal for review. The subcontractor's proposal shall list site survey, scope of the repair, detailed individual Material items including manufacturer part numbers with quantity (LOT items will not be accepted), estimated itemized labor to perform each task listed in the scope in complete detail (total estimated labor to perform the scope in its entirety will not be accepted, or labor to perform multiple repairs), overhead and profit.

#### 2.7 Preventive Maintenance Orders (PMOs) - N/A

#### 2.8 Operations Work Orders (OWOs) - N/A

#### 2.9 Project Work Orders (PWOs)

New work that exceeds \$30,000 shall be accomplished through a separate contractual vehicle.

#### 2.10 Warranty Program.

The contractor shall provide a one-year warranty on all contractor installed equipment, materials and labor on all repairs from the time the DMO completion notice is sent to the COR. The contractor is not permitted to repair, replace, or otherwise correct defects in warranted equipment without obtaining prior authorization from the COR.

##### 2.10.1 Warranty Enforcement Manager - N/A

##### 2.10.2 Warranty Management

The contractor shall maintain a serial number registry in Microsoft Excel format with replaced parts and components with warranty expiration dates and locations where installed. The Excel database shall be provided on demand to the KO/COR. The contractor shall be responsible to check any DMO repair order issued for any warranty part replacements.

#### 2.10.3 Routing of Warranty DMOs

The contractor personnel shall be familiar with all facilities and equipment under warranty and shall notify the COR of DMO requests impacting warranties. For DMOs assigned to other service providers, the contractor shall notify the COR, who shall then determine if the problem is a valid warranty item. If the item is a valid warranty request, the COR shall route the DMO back to the service provider for repair. If the repair requirement item is not covered by the warranty, the DMO shall be sent to the contractor by the COR. Warranty items that may have been overlooked by the DMO review may be flagged by the contractor.

#### 2.10.4 Warranty Records

The contractor shall comply with standard Army execution and warranty claim action reporting programs as defined in AR 700-139 and section 2.10.2.

#### 2.10.5 Exception

The existence of a warranty does not alleviate the contractor of its responsibility to perform work required to prevent potential damage to personnel and property or to prevent unnecessary shutdown of facilities and functions. This condition should be reported immediately to the COR/KO for immediate attention and corrective action.

#### 2.11 Technical Document Library Operation

The contractor shall store, maintain, and make technical documents available to all Government personnel and others approved by DPW upon request. If electronic versions are available, the contractor shall provide these via e-mail or other electronic media. If no electronic copy is available, the hardcopies will be scanned and sent to the Government personnel and others approved by DPW. Contractor shall obtain and record adequate contact information from the borrower, and the documents will be checked out for no longer than five (5) days. In the case where only one hardcopy exists and the document cannot be scanned, the documents shall be made available for reference or for copies. The contractor, to the maximum intent possible, shall maintain all warranty documents in an electronic data base.

#### 2.12 Maintain As-Builts

The contractor shall maintain as-built drawings. Fire alarm system component replacements, modifications, alterations, and additions to all systems and components shall be electronically updated on the CADD drawings upon completion of work. The contractor shall redline annotate all components replaced during the period of the contract and annotate all items added or removed from service. The contractor is required to have, in-house, the necessary staff and software to generate all required CADD drawings required in the PWS. CADD drawings are a requirement and shall be provided according to section 2.5.7.4. The modified as-built drawing shall be sent to the COR as required. Hand drawn or marked up drawings are not acceptable.

#### 2.13 Historic Property or Archaeological Site

Historic properties and archaeological sites are subject to the provisions of the National Historic Preservation Act (NHPA). The contractor shall maintain the historic properties on the installation IAW the NHPA, 54 United States Code (U.S.C) § 300101, National Preservation; 36 Code of Federal Regulations (CFR) Part 800, Advisory Council on Historic Preservation; and United Facilities Guide Specifications (UFGS). The contractor shall comply with all applicable Federal historical structure and archeological laws. Technical Exhibit (TE 4 A) provides more detail on historic properties at Aberdeen Proving Ground and Adelphi Laboratory Center.

#### 2.13.1 Repair and Replacement

The contractor shall report damages to the KO/COR within two (2) hours of damages caused by the contractor during ITM or repairs to the fire alarm system. The Contractor shall repair or replace parts with products similar in appearance to the original at no additional charge to the Government if the damages were caused by the contractor.

#### 2.14 Security

#### 2.14.1 Access and General Protection/Security Policy and Procedures

The contractor and all associated subcontractor's employees shall comply with applicable installation, facility, and local security policies and procedures. The contractor workforce shall comply with all personal identity verification (PIV) requirements as directed by DoD, Headquarters Department of the Army (HQDA), and local policy. The KO/COR will request changes in contractor security matters or processes if the Force Protection Condition (FPCON) at any individual facility or installation changes. The contractor employees are required to provide a valid Maryland driver's license upon demand.

#### 2.14.2 Rules and Regulations from Commander

Rules, regulations, direction, and requirements issued by the Commander apply to the contractor. The contractor shall become acquainted with and comply with all Government regulations as posted, or as required by the KO. Regulations, manuals, and technical documents applicable to this contract are listed in Section 6.0 of this PWS. Control for classified publications requirements is located in AR 380-5, Department of The Army Information Security Program, and secured in a filing type cabinet with a built-in locking device with tumblers and General Services Administration (GSA) approved security container.

#### 2.14.3 Government Vehicles - N/A

#### 2.14.4 Contractor Vehicles

Currently there is no requirement to register contractor owned vehicles with the Provost Marshal or DO. However, the contractor shall maintain a list of all contractor-owned or operated vehicles and trailers operating on the installation at all times. The list may be used in case of emergency and/or other contingency. Evidence of vehicle ownership and vehicle liability insurance shall be presented upon application of vehicle registration.

2.14.4.1 Contractor and all associated subcontractor's employees shall comply with applicable installation, facility and area commander installation/facility access and local security policies and procedures (provided by DO) IAW Army Directive 2014-05. The contractor shall provide all information required for background checks to meet installation access requirements, to be accomplished by the installation Provost Marshall Office or DO, or Security Office. Contractor workforce shall comply with all personal identity verification requirements as directed by DoD, HQDA and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in Contractor security matters or processes.

#### 2.14.5 Contractor and Vendor Access

To access Aberdeen Proving Ground and Adelphi Laboratory Center, privately-owned, Contractor or vendor-furnished vehicles, motorcycles and equipment shall enter the Installation through the designated secure access control points (ACP). Under the present Installation FPCON, vehicle and equipment operators and passengers shall possess only a valid photo identification card to access the Installation. Vehicle and equipment operators shall also possess and be ready to show a valid state driver's license, current vehicle registration, and proof of state required minimum liability insurance. As determined by the Installation FPCON, an elevated FPCON may require additional security screening and/or limited Installation access.

##### 2.14.5.1 Access Points

All contractor personnel requesting access to Aberdeen Proving Ground and Adelphi Laboratory Center shall enter through the designated Visitor Control Center (VCC). All Contractor personnel will be required to present a United States National or State issued identification that is capable of being scanned for valid entry. Contractor personnel will receive a visitor's badge at the VCC with the length of access allowed. The maximum access length for visitor badging is six (6) months. Once issued a valid visitor's badge contractor personnel may enter any Manned Access Control Point/Gate. All contractor personnel and their vehicles, equipment, and packages are subject to inspection or examination (search) at entry and exit of the Aberdeen Proving Ground and Adelphi Laboratory Center.

#### 2.14.6 Physical Security. (Only applicable to Government Furnished Property (GFP) and Facilities)

The contractor shall safeguard all Government equipment, information, and property. The contractor shall secure Government facilities, equipment, and materials at the close of each work period. The contractor, as a general rule, shall not have access to classified information; however, should contractor personnel find classified documents in a

waste basket and or recycle container, the contractor shall immediately contact the KO or designated Government representative/COR for disposition instructions.

## 2.15 Security Training

### 2.15.1 Anti-Terrorism (AT) Level I Training

IAW AR 525-13, Antiterrorism, all contractor employees, including sub-contractor employees, requiring access to Army installations, facilities, or controlled access areas shall complete Antiterrorism (AT) Level I awareness training within 30 calendar days after contract Award. The contractor shall submit certificates of completion for each affected contract employee and subcontractor employee to the KO and designated Government Representative/COR within 30 calendar days after completion of training by all employees and subcontractor personnel on a recurring annual basis. AT Level I awareness training is available at the following site: <http://jko.jten.mil>.

- 2.15.1.1 If access to a computer is not available, the unit's Level II Anti-Terrorism Officer (ATO) will conduct AT Level I training for the contractor and employees within 30 business days after contract award and maintain a copy of the attendance roster for one (1) year. Any contractor employee hired after the contract starts will be required to receive AT Level I training within 30 calendar days by Aberdeen Proving Ground and Adelphi Laboratory Center ATO. It will also be acceptable for the new hire to take the training online and present the training certificate to the KO and designated Government representative/COR within 30 calendar days. If the requiring activity does not have an ATO, the first ATO in the chain of command will conduct this training.

### 2.15.2 iWATCH Training

The contractor shall brief the local iWATCH program (training standards provided by the Rock Island's ATO ) to all of contractor's employees and associated subcontractors. This training is used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the Aberdeen Proving Ground and Adelphi Laboratory Center Police Department and the COR. The contractor shall complete the training within 30 calendar days after contract award and within 30 calendar days of new employees commencing performance and shall send certification of completion to the KO or designated Government representative/COR via both electronic and paper copy within 30 calendar days of completion. Documentation to be used by the COR to satisfy this requirement can be found at: <https://jkodirect.jten.mil/courses/at11/launch.html>

### 2.15.3 Operational Security (OPSEC) Awareness Training

IAW AR 530-1, Operations Security, contractor employees shall complete Level I OPSEC Awareness training within 30 calendar days after contract award and within five (5) calendar days of new employees commencing performance. Completion certificates will be made available to Government within ten (10) business days of completion or upon request from the Government. All Contractor personnel shall complete Level I OPSEC Awareness training annually. Level I OPSEC training is available at the following website: <http://cdse.edu/catalog/elearning/GS130.html>.

## 2.16 Safety

The contractor shall safeguard and maintain all Government and contractor property, as well as provide for the safety and well-being of personnel employed under this contract. The contractor shall comply with AR 385-10, The Army Safety Program.

### 2.16.1 Safety Plan

The Contractor shall develop and implement a safety plan for its employees. The contractor shall submit the safety plan to the KO and COR for review and acceptance within 30 business days after contract award. Revisions shall be submitted to the KO and COR five (5) business days prior to the effective date of change.

### 2.16.2 Occupational Safety and Health (OSHA)

The contractor shall comply with the Occupational Safety and Health Administration (OSHA) standards and all pertinent provisions 29 CFR Part 1910, Part 1917.152, Part 1915.501-509, and Part 1926; Federal and State environmental regulations; DoD and DA regulations and instructions, AR 385-10; and the U.S. Army Corps of Engineers' Safety and Health Requirements Manual (EM-385-1-1). The contractor shall comply with all applicable

Federal, State, and local laws, regulations, and directives. The Contractor shall establish medical surveillance, industrial hygiene, and individual protective equipment programs sufficient to meet requirements delineated in OSHA standards.

#### 2.16.3 Reporting of Fire and Safety Hazards

The contractor shall train personnel to recognize fire and safety hazards and encourage personnel in the performance of their duties to report fire and safety hazards and unsafe conditions to their supervisor. NFPA 51B, Standard for Fire Prevention During Welding, Cutting, and Other Hot Work, provides guidance for persons, including outside contractors and property managers, who manage, supervise, and perform hot work. The code includes the required provisions to prevent loss of life and property from fire or explosion as a result of hot work.

##### 2.16.3.1 Hot Work Permit

A Hot Work Permit Log shall be issued by the Aberdeen Proving Ground and Adelphi Laboratory Center Fire Department. The contractor shall maintain the log and submit it to the KO and designated Government representative/COR upon request. The contractor shall take corrective action to remedy reported deficiencies IAW the terms of this contract. The KO and COR shall be notified of deficiencies beyond the terms of this contract.

#### 2.17 Training

##### 2.17.1 Training, Physical Requirements, or other Expertise Required

The technicians performing repair work on fire alarm, suppression or sprinkler systems on APG and ALC shall be qualified to perform the work under this contract. The technician shall be knowledgeable and trained in the technical requirements of all applicable NFPA codes and standards, UFC 3-600-01 and all other referenced material in this contract. All repairs shall be performed under the supervision of a minimum NICET Level III Fire Alarm Systems technician having five (5) years of supervisory experience and by a minimum NICET Level I or II Fire Alarm Systems technician having three (3) years of supervised experience in the maintenance and repair of various fire protection systems. All final connections to devices and control panels shall be performed by the certified individual. All work shall be managed by a Project Manager and inspected by the QCM experienced in Electrical and Mechanical Systems Engineering Technology with a minimum of five (5) years of experience of project management. The Contractor's suppression systems technicians shall be supervised by a Craftsperson Journeyman Level III certified in Inspection Testing of Water Based Systems with five (5) years' experience in inspection and testing of water based systems (IAW NICET 1-8.1.1.3 Craftsperson with other recognized journeyman or craftsman-level qualifications for fire protection systems, such as National Institute for Certification in Engineering Technologies NICET Level III certification in Fire Alarm Systems, Inspection and Testing of Water-Based Systems, or Special Hazard Suppression System with Journeyman level certifications or formalized labor organization-based journeyman training, or similar programs.) The contractor's suppression systems technicians shall be Craftsperson's with recognized Level I Journeyman Certification in Inspection and Testing of Water Based Systems with 3 years of experience as a supervised apprentice. The contractor is required to have in-house staff and software, MicroStation CONNECT, to generate all required CADD drawings required by the PWS. CADD drawings are a requirement and shall be provided according to section 2.12.

##### 2.17.2 Required Certifications

APG and ALC are predominately installing Notifier (MNS/FACP) combination systems. The contractor shall be a Notifier authorized distributor with three (3) years' experience servicing the ONYX series systems including programming the systems. The contractor shall provide documentation of being a Notifier distributor. The contractor shall be licensed to perform fire detection and suppression ITM&R in the state of Maryland IAW UFC. All contractor personnel shall be certified technicians and under the direct supervision of a National Institute for Certification in Engineering Technologies (NICET) Fire Alarm Systems Level III technician with (5) years' experience, who holds the position as supervisor. The supervisor cannot assume the role of the QCM. The qualified technicians shall have completed an acceptable apprenticeship program, have certificates of technical competency in accordance with commercial practices and be familiar with the contents of applicable NFPA codes and standards. The contractor technicians shall provide evidence of valid licensing of NICET Fire Alarm Systems Level I, II, or III certification for all technicians as applicable. The contractor technicians are required to specifically possess this certification. The contractor and all personnel shall maintain levels of all qualifications throughout the contract period of performance; all newly employed contractor technicians shall provide proof of licensing, certification, and security clearances before performing work under this contract. Technicians that are apprentices shall have certified

apprentice qualifications or license NICET Level I or II with the acceptable skill set to perform the required work. In addition to the acceptable skill set they shall possess minimum 3 years' experience and be under direct constant supervision by a NICET Level III technician, or NICET Level IV supervisor to provide inspection services under this contract. All sprinkler inspections and repairs shall be performed by qualified Craftsperson Journeyman certified in Inspection Testing of Water Based Systems with five (5) years' experience. Craftsperson Journeyman Level I shall have apprentice level certifications with three (3) years' experience. Craftsperson Journeyman Level III shall be required to have five (5) years' experience. Craftsperson Journeyman certification shall be from a recognized technical training program or certification from documented local apprentice training programs. (IAW NICET 1-8.1.1.3 Craftsperson's with other recognized journeyman or craftsman-level qualifications for fire protection systems, such as National Institute for Certification in Engineering Technologies NICET Level III certification in Fire Alarm Systems, Inspection and Testing of Water-Based Systems, or Special Hazard Suppression Systems, or formalized labor organization-based journeyman training, or similar programs.)

#### 2.17.3 Documentation

The contractor technicians shall provide proof of valid licensing of NICET Fire Alarm Systems Level I, II, or III certification for all technicians as applicable. The contractor technicians are required to specifically possess this certification. The contractor and all personnel shall maintain levels of all qualifications throughout the contract period of performance; all newly employed contractor technicians shall provide proof of licensing, certification, and security clearances before performing work under this contract. The contractor shall provide proof of certified technicians for the installation, testing and maintenance of fire alarm systems and suppression systems. The contractor shall provide documentation ten (10) days prior to performance start date. Copies of all certifications and experience shall be submitted to the KO and COR prior to the performance start date.

#### 2.17.4 New Facilities Equipment Training

The contractor shall inspect new equipment and systems upon notification by the COR that the equipment has been accepted by the Government; a signed form DD1354 will be provided to document date of receipt. The contractor shall inspect and evaluate new equipment for compliance with the manufacturer's specifications and shall notify the KO or designated Government representative/COR of all deficiencies noted during this inspection. The contractor shall attend scheduled training of new equipment and maintenance meetings with the Government as requested by the KO/COR as part of accepting a newly built or renovated facility.

#### 2.17.5 Asbestos Awareness Training.

IAW 29 CFR 1910.1101, all personnel that may encounter asbestos while performing the work of this contract shall attend asbestos awareness training annually. This training course is targeted for employees who may disturb asbestos containing materials while performing normal work duties. This includes all fire alarm maintenance employees (electrician, plumber, and HVAC system), facility coordinators, cleaning, and housekeeping personnel.

#### 2.17.6 Child Abuse Prevention, Identification, and reporting

All contractor employees working in support of the Child, Youth and School Service (CYSS) at the Child Development Center (CDC), and/or the Youth Activity Center shall be escorted at all times. The contractor employees shall check in with the front desk and not proceed until escorted by a staff member to the work area. The escort will always remain with the contract worker. If the escort leaves or is not available, the contractor shall stop work and wait at the front desk.

### 2.18 Environmental Requirements

#### 2.18.1 Green Procurement

Section 6002 of the Resource Conservation and Recovery Act of 1976 (RCRA) requires the use of recycled and recovered products identified in the EPA's Comprehensive Procurement Guidelines. The contractor shall use these recycled or recovered products unless they cannot be procured within a reasonable period of time not to exceed seven (7) business days; at prices not to exceed five (5) percent of prevailing rates; or the product(s) does not meet technical or performance standards. EPA Guidelines are the minimum requirement. The contractor shall use materials and products commonly used in industry. The contractor shall maintain records and submit an annual report to the KO and designated Government representative/COR, along with the annual certification required by FAR 52.223-9 (Certification and Estimate of Percentage of Recovered Material Content for EPA designated Items), upon completion of the base year and each option year.



## 2.18.2 Construction and Demolition Diversion - N/A

## 2.18.3 Environmental Compliance

The contractor shall comply with all Federal, State, local, and installation environmental laws, rules and plans. The contractor shall use, store and dispose of all materials, chemicals, and equipment used in the performance of services on the installation IAW with industry standards, local, Federal and State laws, and according to manufacturers' recommendations. The contractor shall be financially liable for all fines and associated costs for non-compliance with local, Federal and State laws regarding hazardous waste management including but not limited to: hazardous materials spillage, improper handling and transportation and improper waste disposal. The contractor shall make all environmental and hazardous material records available the next duty day upon request from the KO or designated Government representative/COR.

### 2.18.3.1 (MSDS)

For materials that have Material Safety Data Sheets (MSDS) associated with them, the Contractor shall submit the SDS to the KO and designated Government representative/COR for approval five (5) business after contract award. The Contractor shall adhere to all applicable requirements of the Installation Hazardous Waste Management Plan. The Contractor shall provide all materials, labor, training, transportation, and equipment for the handling and storage of hazardous materials.

### 2.18.3.2 HAZCOM Training

Employees handling hazardous or toxic materials shall be properly trained under 29 CFR 1910.1200 Hazard Communication (HAZCOM) and documentation of training provided to the KO and COR within 30 calendar days of the start of the contract. The contractor shall ensure all required documentation of certification or licensure for Contractor personnel are provided to the KO and COR within 24 hours prior to employees commencing performance.

## 2.18.4 Hazardous Waste

The installation is regulated by the EPA as a large quantity generator of hazardous wastes and holds the appropriate permit issued under Part A of the Resource Conservation and Recovery Act (RCRA).

### 2.18.4.1 Hazardous Waste Storage

All hazardous waste as defined in 40 CFR Part 261 (Identification and Listing of Hazardous Waste) is subject to RCRA provisions. All such waste generated by the contractor on the Installation from Government processes, equipment, or materials shall be stored in approved containers and disposed of IAW the Installation Hazardous Waste Management Plan available for review in the Technical Reference Library.

### 2.18.4.2 RCRA Waste

RCRA waste items associated with Installation demolition and renovation activities include: mercury switches in thermostats, lead-based paint chips, paint-related materials (paint thinning, drying, removing, and reducing compounds), solvents (methyl ethyl ketone, methyl chloride, acetone, and methanol), fluorescent bulbs, batteries, and fire extinguishers. RCRA waste items associated with Installation new construction activities include: all waste items mentioned in the preceding sentence, contaminated rags (depending on chemical saturation), adhesives, and all aerosol cans.

### 2.18.4.3 NON-RCRA Waste

Non-RCRA waste items subject to state regulations associated with demolition and renovation activities include: ballasts, transformers, capacitors, contaminated soil from spills, and contaminated rags (containing oil and grease only). Non-RCRA waste items subject to state regulations associated with new construction activities include: all waste items mentioned in the preceding sentence, adhesives (non-RCRA), epoxy (non-RCRA), water-based paint, and water contaminated with paint from cleaning paint brushes and rollers.

### 2.18.4.4 All Other Waste

All other wastes generated by the contractor shall be disposed of by a third-party contractor IAW applicable State and Federal Standards. All waste generation on Aberdeen Proving Ground and Adelphi Laboratory Center shall be

handled under a single EPA ID Number per AR 200-1, Environmental Protection and Enhancement. The contractor's shall collect all Hazardous Waste for disposal by the 3rd party.

#### 2.18.5 Environmental Management System (EMS)

Conformance with Environmental Management System (EMS): Aberdeen Proving Ground and Adelphi Laboratory Center has implemented an Environmental Management System (EMS) to proactively mitigate the environmental impacts of its processes, activities and services. All personnel performing work for or on behalf of Aberdeen Proving Ground and Adelphi Laboratory Center shall be aware of and understand Aberdeen Proving Ground and Adelphi Laboratory Center Environmental Policy. The APG EMS conforms to the criteria defined in the international standard, ISO 14001:2004 Environmental Management Systems. Additional information regarding the APG EMS is available from the installation EMS Coordinator (410-278-0756) .

##### 2.18.5.1 EMS General Awareness Training

Aberdeen Proving Ground and Adelphi Laboratory Center offers EMS General Awareness Training: to schedule contact the EMS Coordinator at 410-278-0756. The contractor and its employees with a need-to-know working at Aberdeen Proving Ground and Adelphi Laboratory Center are required to complete the EMS General Awareness Training. Contractors are also responsible for ensuring all subcontractors hired on their behalf receive EMS General Awareness Training.

##### 2.18.5.2 Environmental Policy Assurance

The contractor is also responsible to ensure that no goods and services used by the contractor or any of its subcontractors deviate from Aberdeen Proving Ground and Adelphi Laboratory Center Environmental Policy.

##### 2.18.5.3 Compliance with Environmental Laws and Regulations

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), and Aberdeen Proving Ground and Adelphi Laboratory Center regulations. Contractor shall immediately report any conflicts between applicable Federal, State, local environmental laws, statutes, Executive Orders, AR 200-1, and any specifications within this contract to the KO and COR and the DPW-ED. Any questions regarding EMS may be directed to the Installation EMS Coordinator or Contracting Officer's Representative.

#### 2.18.6 Perform Hazardous Material Work

The contractor is not required to provide hazardous material work. Any suspected ACBM, lead based paint, mold, hazardous conditions or FOI suspected hazardous materials should be avoided. When hazardous materials are encountered during the performance of this contract, the contractor shall immediately report the conditions to the COR who will provide for further guidance.

#### 2.18.7 Spill Plan - N/A

#### 2.18.8 Energy and Utilities Conservation Programs

The Contractor is not required to provide Energy and Utilities Conservation Programs - N/A

#### 2.18.9 Contractor Participation

By coordinating with the DPW National Environmental Policy Act (NEPA) Manager, Energy efficient operation and maintenance of real property will ultimately determine the success of the energy conservation program. It is essential to Aberdeen Proving Ground and Adelphi Laboratory Center and incumbent upon the Contractor to execute PMOs, DMOs, and PWOs, regardless of complexity, with adequate consideration given to energy conservation measures. Work conducted on a Historic Building or Landscape shall be coordinated through the DPW-ED, Cultural Resource Manager (CRM) to avoid adverse effects.

#### 2.19 Contingency Plans

Contingency Plans are not a requirement under this contract - N/A

### 3.0 Performance Requirements and Standards

#### 3.1 Quality Assurance

The Government will evaluate the Contractor's performance under the contract IAW the Government's Quality Assurance Surveillance Plan (QASP). The Performance Requirements Summary (PRS) defines the criteria of how the Contractor's performance will be evaluated, the frequency of surveillance, and the items to be inspected. Although the Government will develop a QASP, Government surveillance of Contractor performance is not limited to the QASP, or the performance objectives, outlined in the PRS. The Government retains the right to evaluate all services required by the contract. The Government will perform inspections and tests in a manner that will not unduly delay the work.

### 3.1.1 (QSAP) Quality Assurance Surveillance Plan

#### **Quality Assurance Surveillance Plan (QASP) Fire Protection Systems Inspection, Testing, Maintenance and Repair Aberdeen Proving Ground (APG), Maryland**

This Quality Assurance Surveillance Plan (QASP) has been developed to evaluate contractor actions while implementing this PWS. It is designed to provide an effective surveillance method of monitoring Contractor performance for each listed objective on the Performance Requirements Summary (PRS) in the inspection, testing, maintenance (ITM), and repair contract.

The QASP provides a systematic method to evaluate the services the Contractor is required to furnish.

This QASP is based on the premise the Government desires to maintain a quality standard in operating, maintaining, and repairing fire protection systems and facilities. Each system is installed to provide a life, health, and safety standard for personnel. A service contract to provide the service is the best means of achieving that objective.

The Contractor, and not the Government, is responsible for management and quality control actions to meet the terms of the contract. The role of the Government is quality assurance to ensure contract standards are achieved.

In this contract the quality control program is the driver for product quality. The Contractor is required to develop a comprehensive program of inspections and monitoring actions. The first major step to ensuring a "self-correcting" contract is to ensure that the quality control program approved at the beginning of the contract provides the measures needed to lead the Contractor to success. Once the quality control program is approved, careful application of the process and standards presented in the remainder of this document will ensure a robust quality assurance program.

#### Inspection, Testing, and Maintenance of Fire Alarm Systems

<b>Performance Objective</b>	<b>Performance Standard</b>	<b>SOW Para</b>	<b>Performance Threshold</b>
<b>Inspection, Testing, Maintenance of Fire Protection Systems to include Fire Alarms, Mass Notification Systems, Wet/Dry Special, Sprinkler Systems</b>	100% Completion of each Fire Alarm System, Sprinkler System, and or Mass Notification System. ITM shall include proper inspection paperwork and list of repairs for system compliance.	Part 1.0,1.2 2.1 2.1.1 2.1.2 2.1.3 2.1.4 2.1.5 2.1.6 2.1.7 2.1.8 2.1.9 2.1.10	(Tier 1 99%) (Tier 2-3 95%) (Tier 3 90%) (Tier 4 90%) Fire systems are in compliance without customer complaints for the month. The 1 <sup>st</sup> year will include a grace period to

		2.1.11 2.1.12 2.1.13 2.1.14 2.1.15	complete the first annual maintenance cycle.
<b>Repair of Fire Alarm Systems, Wet, Dry, and Special Sprinkler Systems.</b>	99% of Tier 1 buildings shall remain in service without customer complaints. 95% of Tier 2-3 buildings shall remain in service without customer complaints.	2.1.8 2.1.9 2.5.2 2.6.2 2.6.3 2.6.4 2.6.5 2.6.6 2.6.7	(Tier 1 99%) (Tier 2-3 95%) (Tier 4 90%) Fire systems are in service that parts are available without customer complaints for the month. Systems that are +25 yrs. old shall meet 95%
<b>Fire Alarm Trouble Calls</b>	100% of all trouble calls will be answered in Tier 1 buildings within 8 hours 95% of all trouble calls will be answered within 3 workdays in all other buildings.	2.5.2 2.5.3	100% of Tier 1 trouble call answered within 1 hours, 95% Tier 2-3-4 systems within 8 hours.

**SURVEILLANCE:** The Government COR will evaluate the services required by each delivery order to ensure compliance. Customer complaints for trouble alarms will be continuous in nature and handled expeditiously for Tier 1 buildings. Trouble alarms in other buildings can impede the work performance of government and contract employees alike and need to be considered. Any system that receives in excess of (2) trouble alarms in (1) month shall be evaluated for repair. Systems that are involved in power outages that exceed 20 hours shall not be counted towards customer complaints.

**STANDARD:** The contractor shall perform all work required by the task or delivery order in a satisfactory manner in accordance with the appropriate SOW paragraph. The COR shall not consider the task or delivery order complete until all deficiencies have been corrected, 95% of all facilities are without customer complaints for the month or service period. For example, if they are 100 facilities receiving service during the month, the COR should receive no more than 5 customer complaints during the service period. For these services, a facility may never have more than (2) customer complaints monthly. The COR shall notify the Contracting Officer for appropriate action in accordance with FAR 52.212.4, Contract Terms and Conditions-Commercial Items (February 2007) or the appropriate Inspection of Services clause, if any of the above service areas exceed five customer complaints on serviceable systems. Systems that are unserviceable and have no parts support shall be referred to the Contracting Officer's Representative (COR) for government determination of repairs.

**PROCEDURES:** Government employees that observe unacceptable services, either incomplete or not performed, for any of the above performance objectives should immediately contact the COR and the COR will complete appropriate documentation to record the complaint. Building Engineers or Facility Managers should be the primary contacts for fire alarm and sprinkler issues. The COR will consider the customer complaint valid upon receipt from the customer. The COR should inform the customer of the approximate time the unacceptable performance will be

corrected and advise the customer to contact the COR if not corrected. The COR will consider customer complaints as resolved unless notified otherwise by the customer. The COR will notify the Quality Control Manager (QCM) of the complaint and will be given two hours after verbal notification to correct the unacceptable performance. If the QCM disagrees with the complaint after investigation of the site and challenges the validity of the complaint, the QCM will notify the COR. The COR will conduct an investigation to determine the validity of the complaint. If the COR determines the complaint as invalid, he will document the written complaint of the findings and notify the customer. The COR will retain the annotated copy of the written complaint for his/her files. If after investigation the COR determines the complaint as valid, the COR will inform the QCM and the QCM will be given an additional hour to correct the defect. A defect will not be recorded if proper and timely correction of the unacceptable condition(s) is accomplished. The QCM shall return the written customer complaint document, properly completed with actions taken, to the COR, who will file the complaint for monitoring future recurring performance. Recurring customer complaints will be handled on a case-by-case for any of the above service items. If a repeat customer complaint is received indicating the same deficiency during the service period (month, quarter, etc.), the COR will contact the Contracting Officer for appropriate action.

### 3.2 Quality Control Plan (QCP)

The contractor shall develop quality control procedures addressing the delivery of services. This QCP shall be submitted as part of the service delivery plan as stated in section 2.1.15. Quality control is the responsibility of the contractor. The contractor shall develop and submit Daily Quality Control Reports as stated in section 3.2.1 and maintain a quality control plan to ensure Fire Alarm, Suppression, Sprinkler and Monitoring Systems services are performed in accordance with appropriate directives and commonly accepted commercial practices. A work schedule for providing the monthly ITM is required and shall be addressed again in section 2.1.15. The contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The contractor shall develop, implement, and maintain an effective quality control program which shall be documented in a QCP to ensure services are performed IAW this PWS. The contractor's QCP is the means by which they assure themselves that the work conforms to contract requirements. The basic principle of the plan is that the Contractor is responsible for quality control. The plan shall include a description of the inspection system to address services listed in this PWS, and a description of the methods to be used for identifying and preventing defects in the quality of services performed. The plan shall include a description of the Contractor's inspection system to include specifics as to areas to be inspected on a scheduled and unscheduled basis, frequency of inspections, and the title and organizational placement of the Contractor's inspectors. No project manager, lead person or first line supervisor shall be considered a Quality Control Manager or Inspector. The contractor shall develop, maintain, and submit a QCP to the KO and the COR for acceptance within 30 business days after contract award. The Contractor shall submit any proposed changes in the QCP to the KO and COR for written acceptance five (5) business days prior to implementation. The COR or KO may require changes to the QCP at any time during the period of performance if they feel the QCP is inadequate, or service delivery quality is not being maintained.

#### 3.2.1 Quality Control Reports

Daily Quality Control Reports shall be submitted daily to the COR and shall include, but not limited to the following:

- Contractor/subcontractor and their area of responsibility.
- Contractor/subcontractor work performed each day, giving location, description, and by whom.
- Test and/or control activities performed with results and references to specifications/drawings requirements.
- Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawings requirements.
- Submittals reviewed, with contract reference, by whom, and action taken.
- On-site surveillance activities, including actions taken.
- Off-site surveillance activities, including actions taken.
- Job safety evaluations stating what was checked, results, and instructions or corrective actions.
- Instructions given/received and conflicts in plans and/or specifications.
- Contractor's verification statement with QC Manager signature.
- When activities are completed, they shall be so noted on the daily QC Report.

All QC Reports shall be submitted in the following file naming convention:

- Contractor name<Contract number<yymmdd<report # document name<.pdf

### 3.2.2 Quality Control Files

The contractor shall maintain files of all inspections, tests and maintenance conducted by the contractor, to include any corrective actions taken. These files shall be subject to Government review at the COR's discretion during the contract term, to include any extensions of contract term. The Quality Control Files will be the property of the Government and shall be turned over to the Government upon completion or termination of the contract.

### 3.3 Customer Feedback Program

The Contractor shall establish and operate a customer feedback program as part of the QCP.

### 4.0 Performance Task Requirements (DMO) Repair Standards and Acceptable Quality Levels (AQLs)

Required Services	PWS Para	Performance Standard	Acceptable Quality Level (AQL)	Method of Surveillance
# 1. Priority 1 Demand Maintenance Order (DMO)	Overarching PWS, paragraph 2.6.2	Complete 100% of Emergency DMOs within 8 hours after COR approval	0 defects per month	Random Sampling
#2. Priority 2 Demand Maintenance Orders	Overarching PWS, paragraph 2.6.2	Complete all Priority 2 DMOs within 7 calendar days after COR approval	No more than 5% defects per month allowed	Random Sampling
# 3. Priority 3 Demand Maintenance Orders	Overarching PWS, paragraph 2.6.2	Complete all Priority 3 DMOs within 30 calendar days after COR approval	No more than 5% defects per month allowed	Random Sampling

### 7.5.4 Identification of Contractor Vehicles and Trailers

The Contractor furnished vehicles and equipment shall be identified as Contractor property. All vehicles and equipment shall be in an operable condition and meet all local, State, and federal safety requirements. The company name shall be displayed on each of the Contractor's vehicles and trailers in a manner and size that is clearly visible. All vehicles and trailers shall display a valid state license plate and meet current local and state vehicle registration, insurance and inspection requirements. Vehicles and equipment identified as not meeting the above safety requirements, by inspection of the KO and COR or the Provost Marshal/DO activity, shall be removed from service within one (1) hour of notification by the Provost Marshal/DO or the KO/COR, and repaired or replaced at the Contractor's expense. Except for minor on site repairs, the Contractor shall move to the Contractor's maintenance area within 08 hours any vehicle or equipment which becomes inoperative or which breaks down during operation. The Contractor shall perform only minor repairs to vehicles or equipment away from this maintenance area. Vehicles subject to the state emission inspection program shall not be operated on Aberdeen Proving Grounds and Adelphi Laboratory Center unless they are in compliance with this program.

#### 4.1 Performance Requirement Summary ITM

Performance Objective for Required Service	PWS Para.	Performance Standard	Maximum Allowable Degree of Deviation from Requirement
ITM Testing systems: The Contractor shall perform operation test on installed facility fire sprinkler systems, kitchen fire suppression systems and all associated mechanical and electrical subsystems.	1.0 1.4 2.1 2.1.2 2.1.3 2.1.4 2.1.5 2.1.6 2.1.7 2.1.8 2.1.9 2.1.10	Perform testing IAW the UFC, applicable NFPA Standards, base requirements, and manufacturer's instruction. Notify the fire department that the system test is to be conducted. Schedule with facility occupants' entry, access control for the testing dated.	Not more than one (1) testing discrepancy per month.
ITM Testing systems: The Contractor shall perform operation test on installed facility fire sprinkler systems, kitchen fire suppression systems and all associated mechanical and electrical subsystems.	2.1 2.1.2 2.1.3 2.1.7 2.1.8 2.1.9 2.1.11 2.1.12	Maintenance and repairs are All performed IAW the applicable UFC and applicable NFPA Standards, base requirements and manufacturer's instructions.	Not more than one (1) maintenance discrepancy per month.
Reports and Records: The Contractor shall maintain all records of tests, inspections, maintenance deficiencies and repairs.	2.1.7 2.1.14	Deficiency Reports to be accurate and submitted 2 days after inspection. Monthly Reports to be accurate and delivered by the 10th of the month following the performance month prior to invoicing	Not more than one (1) maintenance discrepancy per month.
Unscheduled Service Calls: see Technical Exhibits 3A – 3D	2.5.2 2.5.3	Respond within 8 hours, eliminate hazardous conditions, and identify additional required repairs to COR.	Not more than one (1) discrepancy report within a six (6) month period.
Accountability: Proper time keeping and reporting	2.1.1	Each technician shall check in and out each day services are performed on APG or ALC	Not more than one (1) discrepancy identified within a six (6) month period.

#### 5.0 Common Levels of Support (CLS)

N/A

#### 6.0 Deliverables

DELIVERABLES	PWS PARA	METHOD	REQUIRED DATE
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ITM Minor Repair Parts List Technical Exhibit (TE 6 B)	2.1.8	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Provided prior to Contract award with forecasted annual increase. Subsequent: Annually and updated as required.
Service Delivery Plan	1.4 2.1.15 3.2 3.2.1	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Within thirty (30) calendar days after contract award. Subsequent: Annually and updated as required.
Quality Control Plan	3.2 3.2.1	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Within thirty (30) calendar days after contract award. Subsequent: Annually and updated as required.
Fire Pump Maintenance Plan	2.1.10	Shall be Microsoft Office 2007 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Within (45) calendar days after Contract award Subsequent: Monthly and updated as required.
ITM Annual Schedule	2.1.5	Shall be Microsoft Office 2007 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Within (10) calendar days after contract award Subsequent: Annually and updated as required.
Inventory Database	2.1.13	Shall be Microsoft Excel compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Within (30) calendar days after contract award Subsequent: Monthly and updated as required.
Technical Exhibit 2A-2Z updated	2.1.5 2.1.15 7.3	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR.	Initial: Within (30) calendar days after contract award Subsequent: Monthly and updated as required.
Monthly Reports and Records	2.1 2.1.13 2.1.14 2.4.1 2.6.3	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Provided by the tenth (10th) working day of the month following the month during which the work was performed prior to invoicing.
Weekly Reports and Records	2.1.3 2.1.14 2.6.3	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Within ten (10) calendar days after contract award. Subsequent: Weekly and updated as required.



Daily Reports and Records	2.6.3 2.6.4 3.2 3.2.1	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Provided each working day at the end of the day.
OPSEC Training Certificates	2.15.3	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Complete within (30) calendar days after contract award. Submit within ten (10) days of completion. Subsequent: Annually and update as additional Contractor personnel perform under contract.
Anti-terrorism Training Certificates	2.15.1	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Within (30) calendar days after contract award. Subsequent: Annually and update as additional Contractor personnel perform under contract.
iWatch Training List	2.15.2	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Within (30) calendar days after contract award. Subsequent: Annually and update as additional Contractor personnel perform under contract.
Safety Plan	2.16.1	Shall be Microsoft Office 365 compatible, submitted via electronic mail to the COR. Report may be in Contractor format.	Initial: Within (30) calendar days after contract award. Subsequent: Within (5) business days prior to effective change.
Provide proof of Notifier Authorized Distributer	2.17.1 2.17.2	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR.	Provided prior to contract award.
Provide proof of acceptable NICET Level III supervisory training with (5) years' experience leading other NICET Level I, II or III technicians and apprentices.	2.17 2.17.1 2.17.2	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR.	Initial: provide individual training documentation ten (10) days prior to performance start date. Subsequent: All newly employed Contractor technicians shall provide proof before performing work under contract.

Provide proof of acceptable apprenticeship training. Apprentices shall have minimum (3) years' experience in the maintenance and repair of fire suppression systems and or water-based systems.	2.17 2.17.1 2.17.2	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR	Initial: provide individual training documentation ten (10) days prior to performance start date. Subsequent: All newly employed Contractor technicians shall provide proof before performing work under contract
Provide proof of NICET Level I and II technicians having (3) years of current experience in the maintenance and repair of various fire systems. NICET Level I and II technicians require direct supervision, and all work shall be inspected by Level III technicians.	2.4.3.3 2.17 2.17.1 2.17.2	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR and the contract specialist.	Initial: provide individual training documentation ten (10) days prior to performance start date. Subsequent: All newly employed Contractor technicians shall provide proof before performing work under this contract.
Provide proof of factory trained and certified on fire alarm system service of the specific type and manufacturer of system.	2.5.4 2.17.2	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR and the contract specialist.	Initial: provide individual training documentation ten (10) days prior to performance start date. Subsequent: All newly employed Contractor technicians shall provide proof before performing work under this contract.
Provide proof of personnel who are registered, licensed, or certified by a state or local authority or nationally recognized testing laboratory.	1.2.1 2.17.1	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR and the contract specialist.	Initial: Individuals provide prior to start of contract work performance. Subsequent: All newly employed Contractor technicians shall provide proof before performing work under this contract.
Contractor and personnel shall provide proof of maintaining levels of all qualifications throughout the contract period of performance; all newly employed Contractor personnel shall provide proof of licensing and certification before performing work under this contract.	2.1.15 2.4.4.2 2.17.1 2.17.2	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR and the contract specialist.	Individuals provide annually as needed basis when determined by the COR.

The Contractor water based systems technicians shall provide proof of being Craftsman with other recognized journeyman or craftsman-level qualifications for fire protection systems, such as National Institute for Certification in Engineering Technologies NICET Level III certification in Fire Alarm Systems, Inspection and Testing of Water-Based Systems, or Special Hazard Suppression Systems, or formalized labor organization- based journeyman training, or similar programs and have a minimum of (5) years' experience with water based systems.	2.17.1 2.17.2	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR and the contract specialist.	Initial: provide individual training documentation ten (10) days prior to performance start date. Subsequent: All newly employed Contractor technicians shall provide proof before performing work under this contract.
The Contractor suppression systems technicians shall provide proof of being a Craftsman with other recognized Level I Journeyman Certified in Inspection and Testing of Water Based Systems with 3 years of experience as a supervised apprentice in water based and special hazards suppression systems.	2.17.1 2.17.2	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR and the contract specialist.	Initial: provide individual training documentation ten (10) days prior to performance start date. Subsequent: All newly employed Contractor technicians shall provide proof before performing work under this contract.
The Contractor mass notification systems technicians shall provide proof of being certified by NICET Level I or II in audio systems and have a minimum of (3) three years' experience with audio systems.	2.17.1 2.17.2	Shall be Microsoft Office 365 compatible or PDF format, submitted via electronic mail to the COR and the contract specialist.	Initial: provide individual training documentation ten (10) days prior to performance start date. Subsequent: All newly employed Contractor technicians shall provide proof before performing work under this contract.
CADD Drawings	2.1 2.5.7.4 2.6.5 2.12	Shall be MicroStation V8 format, submitted via electronic mail to the COR	Provided after the system is modified, changed, or altered in any way.
Contractor Manpower Report	7.7	Input information correctly into the CMRA web site.	Initial: Reported by 31 October of each calendar year. Final CMR reporting shall be accomplished by 31 December.

AES Training Certification	2.1.16.3	Provide Certification Documentation	Initial: provide training completion documentation ten (10) days prior to AES install. Subsequent: Semiannually and update as additional Contractor personnel perform under contract.
UL Certifications	2.17.1 2.17.2	Provide Certification Documentation	Provide to COR UL certification for current area and documentation to add to the Maryland area listing to current UL certification 10 days prior to period of performance start date.

## 7.0 Related Documents

### 7.1 Definitions and Acronyms

#### 7.1.1 Definitions

7.1.1.1 Acceptable Quality Level (AQL). The AQL is the maximum percent defective (or the number of defects per hundred units) for the purposes of sampling inspection can be considered satisfactory.

7.1.1.2 Alternate Contracting Officer's Representative (ACOR). An employee of the U.S. Government provided by the RA and appointed by the KO to provide support to CORs in monitoring and documenting the Contractor's performance. These alternate surveillance support personnel will serve as on-site representatives of the COR in performance of actual contract surveillance if they meet all COR training, experience requirements, and are appointed by the KO as an ACOR.

7.1.1.3 Ashes. The residue from burned wood, coal, coke, and other combustible material.

7.1.1.4 Bulk Waste. Large items of solid waste such as household appliances, furniture, auto parts, pallets, shelving, piping, stone, concrete rubble, brick, lumber, toys, and other wastes; the size or weight of which, precludes or complicates the handling by normal collection, processing, or disposal methods.

7.1.1.5 Bulky Waste. The waste placed at the collection point or curbside that doesn't fit or is too heavy to be placed in the routine collection container. These wastes include but are not limited to: lumber, scrap metals, bricks, blocks, concrete rubble, stones, toys, furniture, appliances, logs, limbs, televisions, cabinets, automotive components, power equipment, crates, wheels, de-rimmed tires, electronics and their components, etc.

7.1.1.6 Cannibalize. Remove parts from Government property for use or for installation on other Government property.

7.1.1.7 Carpet Care. Cleaning and maintenance to keep carpet reasonably free of all stains, soil, and dirt. Methods used for carpet care are vacuum cleaners and carpet shampooers.

7.1.1.8 Child, Youth and School Services (CYS). Overarching naming convention for Child Development Center (CDC), Youth Activity Center, and School Age Services (SAS). CYS is used when referencing all programs.

7.1.1.9 Cleaning. Removing stains, soil, and dirt; accomplished by chemical or mechanical means.

7.1.1.10 Collection. The pickup of accumulated recyclable material, solid waste, including bulky waste, from any collection point, regardless of quantity.

7.1.1.11 Collection Frequency. The number of times collection is performed during a specific time frame.

7.1.1.12 Collection Point. The location designated on the drawings or maps or described in this performance work statement where solid waste, including bulky materials, will be temporarily stored for collection by the Contractor.

7.1.1.13 Commercial Solid Waste. All types of solid waste generated by stores, offices, restaurants, warehouses, and other non-manufacturing activities, excluding residential and industrial waste.

7.1.1.14 Construction and Demolition (C&D) Waste. The waste building materials, packaging and rubble resulting from construction, remodeling, repair, and demolition operation on pavement, housing, commercial buildings and other structures.

7.1.1.15 Contract Administrator (CA). The official Government representative delegated authority by the KO to administer a contract. This individual, normally working in an appropriate contracting or procurement career field, advises on all technical contractual matters.

7.1.1.16 Contract Discrepancy. A failure of the Contractor to perform IAW contract requirements and specifications, e.g., a failure of the Contractor to provide, or provide on time, the required contract products or services; or it may result because delivered products or services do not meet specific contract requirements.

7.1.1.17 Contract Discrepancy Report (CDR). A report used to document other than satisfactory Contractor performance. The CDR requires the Contractor to explain, in writing, why performance is other than satisfactory; how performance shall be returned to satisfactory levels; and how recurrence of the problem shall be prevented in the future.

7.1.1.18 Contractor. A supplier or vendor awarded a contract to provide specific supplies or service to the Government. The term used in this contract refers to the prime.

7.1.1.19 Contractor Acquired Property (CAP). Property acquired, fabricated, or otherwise provided by the Contractor for performing a contract. Contractor retains title.

7.1.1.20 Contracting Officer (KO). A person with authority to enter into, administer, change and/or terminate contracts, and make related determinations and findings on behalf of the Government. Note: The only individual who can legally bind the Government.

7.1.1.21 Contracting Officer's Representative (COR). An employee of the U.S. Government appointed by the KO to help 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 that are 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.

7.1.1.22 Curb Side Pick-Up. Collection of solid waste or recyclable materials (to include bulky waste) that is placed next to curb, doorway or alley by the supported activity. This refers to locations that are not serviced by bulk containers (dumpsters or compactors).

7.1.1.23 Debris. Includes, but is not limited to, paper, cans, bottles, cigarette butts, cardboard, plastic, limbs and branches, pine straw and pine cones, leaves, rocks, and other similar items.

7.1.1.24 Defective Service. A service output that does not meet the standard of performance associated with the PWS.

7.1.1.25 Deliverable. Anything that can be delivered; can include non-manufactured things, such as meeting minutes or reports.

7.1.1.26 Equipment. A tangible item that is functionally complete for its intended purpose, durable, nonexpendable, and needed for the performance of a contract. Equipment is not intended for sale and does not ordinarily lose its

identity or become a component part of another article, when put into use. Equipment does not include material, real property, special test equipment or special tooling.

7.1.1.27 Fertilization. Fertilization is the process of applying nutrient elements to the soil where the soil has become deficient in nutrients essential for proper plant growth.

7.1.1.28 Food Waste. Organic residue generated by the handling, storage, sale, preparation, cooking and serving of foods.

7.1.1.29 Garbage. Animal and vegetable waste resulting from the handling, preparation, cooking and consumption of foods.

7.1.1.30 General Fund Enterprise Business System (GFEBS). GFEBS is the U.S. Army's web-based enabled financial, asset, and accounting management system that standardizes, streamlines, and shares critical financial data across the Active Army, the Army National Guard, and the Army Reserves. GFEBS is the work management system that the Directorate of Public Works uses for all order types and projects.

7.1.1.31 Generation. The act or process of producing refuse (solid waste) or recyclable materials.

7.1.1.32 Government-Furnished Property (GFP). Property in the possession of, or directly acquired by, the Government and subsequently furnished to the Contractor for performance of a contract. Government-furnished property includes, but is not limited to, spares and property furnished for repair, maintenance, overhaul, or modification. Government-furnished property also includes Contractor-acquired property if the Contractor-acquired property is a deliverable under a cost contract when accepted by the Government for continued use under the contract.

7.1.1.33 Government Property. All property owned or leased by the Government. Government property includes both Government-furnished property and Government purchased Contractor-acquired property. Government property includes material, equipment, special tooling, special test equipment, and real property. Government property does not include intellectual property and software.

7.1.1.34 Grass Cutting. Grass cutting includes cutting and trimming, within the designated area, all grasses, weeds, and other vegetation which is one inch or less in diameter (at ground level).

7.1.1.35 Hard Surface Floor Care. Hard surface floor care includes, but is not limited to tile, vinyl, rubber tile, mosaic tile, quarry tile, ceramic tile, marble, concrete, terrazzo, and linoleum. Floor care includes, but is not limited to dust mopping, wet mopping, scrubbing, stripping, waxing, re-finishing, or sealing.

7.1.1.36 Hazardous Material. Any item or chemical, which is a "health hazard", or "physical hazard", as reflected in Federal Standard (FED-STD) 313 Material Safety Data and Disposal Data for Hazardous Materials Furnished to Government Activities, defined in OSHA 29 CFR 1910, and pursuant to FAR 23.301 (Hazardous Materials) Definition. It also includes any other material designated by a Government COR/technical representative as potentially hazardous and requiring safety controls (e.g., pesticides, fertilizers).

7.1.1.37 Installation design Guide (IDG). IDGs provide standards for site planning, buildings, vehicular and pedestrian circulation, landscaping, site elements (e.g., signage, utilities), force protection, and sustainable design. The IDGs are specific to each Army installation.

7.1.1.38 Institutional Solid Waste. Waste that is generated by educational, health care, correctional and other institutional facilities.

7.1.1.39 Key Personnel. Contractor personnel evaluated in a source selection process and are 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 who are listed in the proposal. The Prime Contractor is responsible for performance of all subcontractors.

7.1.1.40 Lavatories, Latrines, or Bathrooms. Commodes, urinals, wash basins, bathtubs, shower stalls, sinks, and shower curtains.

7.1.1.41 Loss of Government Property. Unintended, unforeseen, or accidental loss, damage, or destruction of Government property that reduces the Government's expected economic benefits of the property. Loss of Government property does not include occurrences such as purposeful destructive testing, obsolescence, normal wear and tear, or manufacturing defects. Loss of Government property includes, but is not limited to:

- a. Items that cannot be found after a reasonable search,
- b. Theft,
- c. Damage resulting in unexpected harm to property requiring repair to restore the item to usable condition, or
- d. destruction resulting from incidents that render the item useless for its intended purpose or beyond economical repair.

7.1.1.42 Lot. A collection of service outputs from which a sample is to be drawn and inspected to determine conformance with the standard. This definition applies to the Performance Requirements Summary (PRS), not the word "lot" in Section B of the contract.

7.1.1.43 Lot Size. The number of service outputs in a lot. This definition applies to the PRS, not the words "lot size" in Section B of the contract.

7.1.1.44 Material. Property that is consumed or expended during the performance of a contract, component parts of a higher assembly, or items that lose their individual identity through incorporation into an end-item. Material does not include equipment, special tooling, and special test equipment or real property.

7.1.1.45 Material Handling Area. The material handling area is used for the accumulation and preparation of bulk solid waste or recyclable materials for transportation to a solid waste management facility.

7.1.1.46 Non-Combustible Material. Material that doesn't burn at ordinary temperatures.

7.1.1.47 Non-Personal Services. The personnel rendering the services are not subject, either by the contract's terms or by the manner of its administration, to the supervision and control usually prevailing in relationships between the Government and its employees. Non-personal service contracts are authorized by the Government IAW FAR 37.104, under general contracting authority, and do not require specific statutory authorization.

7.1.1.48 Organic Storage Site. Area of accumulation for organic materials (e.g., leaves, logs, limbs, and grass clippings).

7.1.1.49 Performance Indicator. The characteristic of an output of a work process that can be measured.

7.1.1.50 Performance Requirements Summary (PRS). Identifies the key service outputs of the contract that will be evaluated by the Government to ensure contract performance standards are met by the Contractor (other services may also be inspected under the authority of the Inspection of Service Clause).

7.1.1.51 Physical Security. Actions that prevent the loss or damage of Government property.

7.1.1.52 Plant. A living organism, of the kind exemplified by trees, shrubs, herbs, grasses, ferns, and mosses, typically growing in a permanent site, absorbing water and inorganic substances through its roots.

7.1.1.53 Property. All tangible property, both real and personal.

7.1.1.54 Property Administrator (PA). An authorized representative of the KO, appointed IAW agency procedures, responsible for administering the contract requirements and obligations relating to Government property in the possession of a Contractor.

7.1.1.55 Property Records. Records created and maintained by the Contractor in support of its stewardship responsibilities for the management of Government property.

7.1.1.56 Provide. To furnish, as in Government-furnished property, or to acquire, as in Contractor-acquired property.

7.1.1.57 Pruning. Pruning is selectively removing unwanted growth to make a plant or tree grow or respond in a desired manner. Pruning differs from "shearing". Pruning involves selection and judgment. "Shearing" means clipping all growth on a plant at a uniform distance and shape.

7.1.1.58 Public Traffic Areas. Lobbies, hallways, corridors, stairwells, meeting rooms, and lavatories.

7.1.1.59 Quality Assurance (QA). Verification that services being performed by the Contractor are IAW acceptable standards.

7.1.1.60 Quality Assurance Evaluator (QAE). A Government representative responsible for performing surveillance and inspection of Contractor performance.

7.1.1.61 Quality Assurance Surveillance Plan (QASP). An organized document written by the Government specifying the surveillance methodology used for surveillance of Contractor performance.

7.1.1.62 Quality Control. All necessary measures taken by the Contractor to assure that the quality of an end product or service shall meet contract requirements.

7.1.1.63 Raise. Selective pruning of limbs, identified by the COR, or limbs that pose a public safety hazard with a minimum clearance of 14 feet over streets, parking lots, and driveways; eight (8) feet over walk areas; four (4) feet over buildings and three (3) feet from buildings and streetlights, IAW established industry standards.

7.1.1.64 Random Number Table. A table of numbers arranged in random fashion; a table used to select random samples.

7.1.1.65 Random Sample. A sampling method whereby each service output in a lot has an equal chance of being selected.

7.1.1.66 Random Sampling. A method for looking at a few individual items in a lot to measure the quality of that lot against a standard.

7.1.1.67 Real Property. DoD Lands, buildings, structures, utility systems, improvements, and appurtenances, thereto that includes equipment attached to and made part of buildings and structures, but not movable equipment. See Federal Management Regulation 102-71.20 (41 CFR 102-71.20).

7.1.1.68 Recycling. The act of recovering materials from the solid waste stream, separating them by commodity, and returned to the economic mainstream as raw material.

7.1.1.69 Recycling Materials. Commodities include corrugated cardboard, wood, and plastic pallets.

7.1.1.70 Recycling Facility. Any facility employed, beyond the initial collection processes and managing recycling which include, but not limited to electronics, organics, plastics, metals, paper, and cardboard.

7.1.1.71 Regulated Medical Waste. Waste not specifically excluded from the restrictions of Federal regulations and which meets the criteria listed in 40 CFR 259.

7.1.1.72 Refuse. All garbage, ashes, debris, trash, rubbish and items intended for disposal that are generated in conjunction with the activities in the areas covered in this contract. Items excluded are explosives, incendiary waste, hazardous waste, and pathological waste resulting from medical and radiological processes.



7.1.1.73 Refuse Collection. A system of collecting and transporting solid waste from pick-up stations to points of disposal.

7.1.1.74 Refuse/Recycling Storage Containers. Cans, drums, bins, bags, boxes, crates, sidewalk litter containers, dumpsters, roll-off containers, or similar receptacles which are used for the temporary storage of solid waste while awaiting collection. The term "container" used in this document shall have the same meaning as solid waste storage container.

7.1.1.75 Residential Solid Waste. Waste generated by the normal activities of households, including, but not limited to: food waste, rubbish, ashes and bulky waste.

7.1.1.76 Sample Size. The number of outputs in the sample; a group of one or more tasks drawn from the specified performance.

7.1.1.77 Sampling. A sample consists of one or more service outputs drawn from a lot IAW random sampling procedures to be evaluated by Government personnel.

7.1.1.78 Scavenging. The uncontrolled and unauthorized removal of materials at any point of the solid waste management stream.

7.1.1.79 Sensitive Property. Property potentially dangerous to the public safety or security if stolen, lost, or misplaced, or that shall be subject to exceptional physical security, protection, control, and accountability. Examples include weapons, ammunition, explosives, controlled substances, radioactive materials, hazardous materials or wastes, or precious metals.

7.1.1.80 Service/Maintain. These words are interchangeable.

7.1.1.81 Shrub. A woody plant with several perennial stems. It will usually have a height less of than 13 feet and stems no more than about three (3) inches in diameter.

7.1.1.82 Soil. Includes, but is not limited to dust, dirt, stains, grease, smudges, streaks, spots, lint, or odors. Soil can be removed chemically, mechanically, or by a combination of both. Mechanical soil removal is removing soil with a machine such as a vacuum cleaner. Chemical soil removal is removing soil with a liquid that contains cleaning agents such as detergents, surfactants, and emulsifiers. The combination of chemical and mechanical methods such as an automatic floor scrubbing machine, uses the chemical method to breakdown and loosen soil which then the mechanical method picks up and carries the soil away. Which soil removal method is used depends on the cleaning objectives and on size, location, and type of surface to be cleaned and is the prerogative of the Contractor.

7.1.1.83 Solid Waste. Garbage, refuse, sludge, and other waste materials not excluded by Federal regulations. Solid waste is any solid, liquid, semi-solid, or contained gaseous material resulting from institutional, industrial, commercial, mining, agricultural, or community operations and activities. Solid wastes are accumulated, stored, or treated before being discarded. A material is discarded if abandoned and not used, reused, reclaimed, or recycled by being disposed of, burned, or treated. Regulated medical wastes are not included in this category.

7.1.1.84 Solid Waste Management Facility (SWMF). Any facility employed, beyond the initial collection processes and managing solid waste including, but not limited to: storage areas or facilities, transfer stations, rail haul or barge haul facilities, landfills, disposal facilities, solid waste facilities, surface impoundment and waste oil storage, repossessing, refining facilities, recyclable handling, recovery facilities and waste tire storage facilities.

7.1.1.85 Source Separation. Source separation is the act of separating recyclable materials at their point of generation by the waste generator.

7.1.1.86 Spray Buffing. Procedure to apply a light coat of wax to maintain the waxed floor after removing minor scratches and scuff marks.

7.1.1.87 Spot Cleaning. Cleaning small areas of carpet by vacuuming, hot water extraction, or shampooing due to accumulation of dirt or soil on heavy traffic patterns or due to leaks or spillage on small areas of floor surface. Spot cleaning is also removal of spots from walls, ceilings, floors, and furniture surfaces.

7.1.1.88 Standard. A measure of comparison; an acceptability criterion; a benchmark or yardstick against which a service will be measured.

7.1.1.89 Stairwell Cleaning. Cleaning of all stairwells in any building. This process includes steps, landing, walls, and handrails.

7.1.1.90 Street Wastes. Materials picked up by manual or mechanical sweepings of alleys, streets, and sidewalks. Waste from solid waste receptacles and catch basins.

7.1.1.91 Stripping. The removal of floor finishes down to the flooring material. Stripping of a floor means floor surfaces are free of dirt, stains, deposits, cleaning solutions, standing water, and have a uniform appearance when dry. Stripping of floor surfaces includes utilizing procedures and equipment to prevent safety hazards.

7.1.1.92 Subcontractor. One that enters into a contract with a prime Contractor. The Government does not have privity of contract with the subcontractor.

7.1.1.93 Tonnage. Weight measured in tons (not imperial).

7.1.1.94 Transfer Station. A transfer station is a facility which processes collected solid waste in a particular area for transportation to a solid waste management facility.

7.1.1.95 Trash Removal. Trash removal includes the pickup and removal of all papers and other debris in buildings. This includes but is not limited to wastebaskets, boxes, or any substance used for refuse.

7.1.1.96 Tree. A woody plant having one erect perennial stem (trunk), at least three inches in diameter, at a point 4-1/2 feet above the ground, a definitely formed crown of foliage, and mature height of at least 13 feet.

7.1.1.97 Trimming. Cutting of grass and other vegetation around grounds obstacles that prevent mowing.

7.1.1.98 Unit Acquisition Cost.

- a. For Government-furnished property, the dollar value assigned by the Government and identified in the contract; and
- b. For Contractor-acquired property, the cost derived from the Contractor's records that reflect consistently applied generally accepted accounting principles.

7.1.1.99 Vector. A carrier, usually an arthropod, which can transmit a pathogen from one organism to another.

7.1.1.100 Wash. The act of cleansing using water and soap or detergent.

7.1.1.101 Wide Area Work Flow (WAWF). A secure web-based system for electronic invoicing, receipt, and acceptance. WAWF allows Government vendors to submit and track invoices and receipt or acceptance documents over the web allowing Government personnel to process those invoices in a real-time, paperless environment.

7.1.1.102 Work Day. The number of hours per day the Contractor provides services IAW the contract.

7.1.1.103 Work Week. Monday through Friday, unless specified otherwise.

7.1.1.104 Yard Wastes. Materials such as: tree and shrub branches, trimmings, brush, grass clippings, leaves, Christmas trees, weeds, etc.

7.1.1.105 Demand Maintenance Order (DMO): Known in AR 420-1 as Service Order (SO). A work authorization document used for work that is either corrective in nature (e.g., repairs, modifications, and replacements) or not generally considered to be a recurring maintenance activity. DMOs, therefore, are unscheduled and not known in advance. Examples include minor electrical, carpentry, and plumbing repairs, or locating utility lines. DMOs may be initiated by the Government, customer, or Contractor upon identification of a need requiring corrective action.

7.1.1.106 General Fund Enterprise Business System (GFEBS): The Government is required to use GFEBS for budgeting, managing, cost accounting and financial reporting of Garrison Operations, including DPW services. The Contractor is tasked by GFEBS Order Documents and is responsible to input all DMO project status and labor confirmations. The Government will utilize GFEBS for preparation of most required status reporting and for monitoring Contractor performance in timeliness and accuracy of data input. GFEBS documents DPW Work Management and Reporting of DMOs PMOs, OWOs, and PWOs. GFEBS is the Government's system of record.

7.1.1.107 Individual Job Order (IJO): Known in GFEBS as a PWO. Directive for maintenance and repair which exceed SO or DMO criteria. The term is used in AR 420-1, but in GFEBS the execution work document is referred to as a Project Work Order (PWO).

7.1.108 Maintenance: Work required to preserve and maintain a real property facility in such condition that it may be used effectively for its designated functional purpose. Maintenance includes work done to prevent damage which would be more costly to restore than to prevent. Maintenance includes work to sustain components. Examples include renewal of disposable filters, painting, caulking, refastening loose siding, and sealing bituminous pavements.

7.1.109 New Work: Work that results in the creation or addition to an existing facility or of a building component or system which did not exist prior to the work, irrespective of whether the work is funded from a construction or an operation and maintenance (O&M) account. New work that exceeds \$30,000 shall be accomplished through a separate contractual vehicle.

7.1.110 Operation Work Order (OWO): Covers services that are recurring, provide CLS, and do not fall into PM.

7.1.111 Preventive Maintenance (PM): Routine, recurring sustainment work performed on all real property facilities (RPF). PM is systematic inspection, care, and servicing of equipment, utility plants and systems, buildings, structures, and grounds facilities performed to detect and correct incipient failures and accomplishing minor maintenance. PM is executed by a Preventive Maintenance Order (PMO) in support of a preventive maintenance plan.

7.1.112 Preventive Maintenance Order (PMO): Known in AR 420-1 as Preventive Maintenance. A PMO is the work authorization document for recurring maintenance work that is performed on a scheduled basis (also referred to as Preventive Maintenance (PM)). All Preventive Maintenance plans will be entered into GFEBS; this is required in order to generate the PMO at the frequency required. PMO tasks include, but are not limited to, annual inspection of sump pumps, grounding point testing, maintenance of Dining Facility (DFAC) equipment, and annual cleaning of cooling towers. PMOs will be approved and issued on DA Form 4283, Facilities Engineering Work Request, or equivalent computer-produced facsimile or printout. The Government will identify applicable wage determinations (Service Contract Labor Standards, formerly Service Contract Act or Wage Rate Requirements, formerly Davis Bacon Act) for each PMO prior to issuing to the Contractor. Contractor execution of PMOs will be pre-approved by the Government following the review of Contractor work plans and schedules. Any changes in scheduled workload will be negotiated and incorporated into the contract by modification. Frequency requirements for scheduled tasks are presented at the FA level, as applicable.

7.1.113 Project Work Order (PWO): Known in AR 420-1 as IJO. A work execution document used for unscheduled work, including project-oriented work such as repairs, modifications, replacements, or installations that exceed the thresholds for a DMO. Project Work Orders can vary significantly in nature, scope, expertise, and location. Each PWO will be fixed priced based on the negotiated proposals required to accomplish the scope of work. Each PWO shall have an approved DA Form 4283 authorizing the execution of the work.

7.1.114 Repair: Repair is one of the following:

- a. Restoration of a real property facility (RPF) to such condition that it may be used effectively for its designated functional purpose.
- b. Correction of deficiencies in failed or failing components of existing facilities or systems to meet current Army standards and codes where such work, for reasons of economy, should be done concurrently with restoration of failed or failing components.\*

**\*In addition to condition-based failure, a utility system or component of the system may be considered “failing” if it is energy inefficient or technologically obsolete.**

7.1.115 Scheduled Maintenance: Also referred to as preventive maintenance (PM). Routine, recurring sustainment work performed on all real property facilities to detect and correct incipient failures and accomplishing needed minor maintenance. Systematic and cyclic check, inspection, servicing, and repair of deficiencies of utility plants and systems, buildings, structures, and grounds facilities. These repairs may also include replacement of parts or components necessary to keep equipment and/or systems operating effectively. Scheduled work requires the preplanning of resources resulting from a known requirement and encompasses the scheduling and execution of specific tasks. Scheduled work is planned such that Government operations are not disrupted and the work is executed efficiently without delays due to availability of labor, parts, material, and equipment. Scheduled work is performed through the issuance of PMOs and OWOs.

7.1.116 Service Order (SO): Also referred to as DMO. A service order is used for minor maintenance and repair or for emergency work, such as broken plumbing or electrical failures. Service orders represent the least controllable and most reactive work performed by the DPW. Service orders have the highest level of customer visibility of any work performed by the DPW.

7.1.117 Standing Operating Order (SOO): Also referred to as Base Operation Support (BOS). A service-driven requirement captured on a DA Form 4283. The work execution document for execution of the service to be performed is an OWO. This work is operational in nature that is performed on a recurring basis, such as scheduled grounds maintenance, plant operation, operator maintenance, refuse collection, custodial services, and pest management. Scheduled work requires the preplanning of resources on the basis of a known requirement and encompasses the scheduling and execution of specific tasks. Prior to the creation of an OWO; an approved DA Form 4283 will be required. From the approved DA Form 4283, an OWO or equivalent computer-produced facsimile or printout will be issued when the work is ready for execution. Contractor execution of OWOs will be pre-approved by the Government following the review of Contractor work plans and schedules. Any changes in scheduled workload will be negotiated and incorporated into the contract by modification.

7.1.118 Unscheduled Maintenance: Non-recurring maintenance or unscheduled repair. Work required to preserve and sustain a real property facility or its components due to unforeseen occurrences. The work is corrective in nature and not generally used for recurring tasks. Unscheduled maintenance is performed through the issuance of DMOs (less than the 32 work-hours threshold) and PWOs (above the 32 work-hours threshold). Sometimes a DMO is referred to as a SO, a work authorization document used for small-scale maintenance and repair on Government-owned or -leased facilities and equipment. The purpose of a DMO is to provide the Government with a means of remedying unplanned work up to a defined hourly threshold of 32 work-hours, per DFARS 222.402-70, for work requirements occurring outside of the normal recurring work. A DMO exceeding 32 onsite work-hours becomes a PWO and is subject to construction wage rates.

The Contractor shall utilize DMOs to accomplish any work up to the 32 work-hours threshold at the discretion of the COR/ACOR. The Government will combine multiple repair requirements received for the same trade in the same building or structure at the same time into one DMO, if the hourly threshold is not exceeded.

7.1.119 Work Order: Also referred to as a work request. The DA Form 4283 is used to capture the requirements for Individual Job Orders (IJOs), Standing Operating Orders (SOOs), Preventive Maintenance (PM), etc. Local procedures are used to capture the requirements for a DMO. There are 4 work authorization document types. The work authorization document types are as follows: DMO for Service Order, PMO for PM, OWO for Operation Work Order, and PWO for Individual Job Orders.

Order Types:

- o DMO – SRM; small maintenance and repair on real property assets; sometimes referred to an SO.
- o PMO – Recurring maintenance on real property assets
- o PWO – IJO, maintenance and repair that exceeds work-hours of a DMO
- o OWO – Base Operating Support (BOS), service driven work (custodial, grounds maintenance, pest control, refuse removal)

7.1.2 Acronyms

ACC	Army Contracting Command
ACOR	Alternate Contracting Officer's Representative
AFARS	Army Federal Acquisition Regulation Supplement
ALC	Adelphi Laboratory Center
AMC	Army Materiel Command
ANSI	American National Standards Institute
APG	Aberdeen Proving Ground
APGFD	Aberdeen Proving Ground Fire Department
AQL	Acceptable Quality Level
AR	Army Regulation
ARC	Army Resource Center
ATO	Anti-Terrorism Officer
CAP	Contractor Acquired Property
CDC	Child Development Center
CDRL	Contract Data Requirements List
CFE	Contractor Furnished Equipment
CFM	Contractor Furnished Material
CFP	Contractor Furnished Property
CFR	Code of Federal Regulations
CLIN	Contract Line Item Number
CMRA	Contractor Manpower Reporting Application
CONUS	Continental United States (excludes Alaska and Hawaii)
COR	Contracting Officer's Representative
CORT	Contracting Officer's Representative Tool
CPARS	Contractor Performance Assessment Reporting System
DA	Department of the Army
DCMA	Defense Contract Management Agency
DO	Directorate of Operations
DFARS	Defense Federal Acquisition Regulation Supplement
DID	Data Item description
DoD	Department of Defense
DOL	Department of Labor
DOT	Department of Transportation
DPW	Directorate of Public Works
DR	Deficiency Report
ECO	Environmental Compliance Officer
EM	Engineering Manual, U.S. Army Corps of Engineers (USACE)
EO	Executive Order
EPA	Environmental Protection Agency
ERDC	Engineering Research Development Center
ENV	Environmental
FACP	Fire Alarm Control Panel
FAR	Federal Acquisition Regulation
FIPS	Federal Information Processing Standards
FPCON	Force Protection Condition
GFE	Government-Furnished Equipment
GFEBs	General Fund Enterprise Business System

GFM	Government-Furnished Material
GFP	Government-Furnished Property
HLO	High Level Objective
HQDA	Headquarters Department of the Army
HSPD	Homeland Security Presidential Directive
IAW	In Accordance With
IMCOM	Installation Management Command
IPM	Integrated Pest Management
IPMC	Integrated Pest Management Coordinator
IPMP	Integrated Pest Management Plan
IT	Information Technology
KO	Contracting Officer
N/A	Not Applicable
NGB	National Guard Bureau
NLT	Not Later Than
OCI	Organizational Conflict of Interest
OCONUS	Outside Continental United States (includes Alaska and Hawaii)
OMB	Office of Management and Budget
OSHA	Occupational Safety and Health Administration
OWO	Operation Work Order
PAM	Pamphlet
PM	Preventive Maintenance
PMO	Preventive Maintenance Order
POC	Point of Contact
PoP	Period of Performance
PPIRS	Past Performance Information Retrieval System
PRS	Performance Requirements Summary
PUB	Publication
PWO	Project Work Order
PWS	Performance Work Statement
QA	Quality Assurance
QAP	Quality Assurance Program
QASP	Quality Assurance Surveillance Plan
QC	Quality Control
QCP	Quality Control Plan
QCM	Quality Control Manager
RCRA	Resource Conservation and Recovery Act
SDS	Safety Data Sheets
SF	Standard Form
TE	Technical Exhibit
USARC	U.S. Army Reserve Command
U.S.C.	United States Code
VCE	Virtual Contracting Enterprise
VIP	Very Important Person
WAWF	Wide Area Work Flow
WD	Wage Determination

## 7.2 Applicable Directives, Publications

10 CFR Part 450	Energy
25 TAC 295.212	Standards for Conducting Lead-based Paint Activities 25 TAC Chapter 295 Subchapter C (25 TAC 295.50)
25 TAC Chapter 295	Subchapter I (25 TAC 295.206)

ACC PAM 70-1	Interim Army Contracting Command – Contracting Officer’s Representative Policy Guide
AASHTO-T11	Standard Method of Test for Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
AASHTO M247	Road Marking Glass Beads
AFI 13-213	Airfield Operations Management, Chapter 4 ASHRAE, Chapter 22 Fundamentals Handbook
ANSI A300	Standard Practices for Tree Care Operations
ANSI B30.11	Monorails and under hung Cranes
ANSI B30.16	Safety Standards or Overhead Hoists
ANSI/ASME A17.1	Safety Code for Elevators and Escalators
ANSI/ASME A17.2	Inspector’s Manual for Elevators and Escalators
ANSI/ASME A17.3	Safety Code for Existing Elevators and Escalators ANSI/ASME A17.4 Guide for Emergency Evacuation of Passengers From Elevators
ANSI/ASME A17.5	Elevator and Escalator Electrical Equipment
ANSI/IEEE Std 142	Practice for Grounding of Industrial and Commercial Power Systems.
ANSI/ASQC-Z1.4	National American Standard ANSI Z60.1 American Standards for Nursery Stock
ANSI Z87.1-2003	Practice for Occupational and Educational Personal Eye and Face Protection Devices
ANSI Z133.1	Safety Requirements for Tree Care Operations
ANSI Z245.1	Mobile Refuse Collection and Compaction Equipment – Safety Requirements
APGR 420-1	APGFD Fire Prevention Regulation
AR 5-17	The Army Ideas for Excellence Program
AR 11-2	Management Controls
AR 11-27	Army Energy Program
AR 25-2	Information Management: Army Cybersecurity
AR 40-3	Medical, Dental, and Veterinary Care
AR 40-5, Change 1	Preventive Medicine
AR 40-400	Medical Services Patient Administration
AR 70-13	Management and Oversight of Service Acquisitions
AR 95-1	Flight Regulations
AR 95-2	Airspace, Airfields/Heliports, Flight Activities, Air Traffic Control, and Navigational Aids

AR 190-13	Army Physical Security Programs
AR 190-51	Security of Unclassified Army Property
AR 200-1	Environmental Protection and Enhancement
AR 200-2	Environmental Effects of Army Actions
AR 200-3	Natural Resources; Land, Forest, and Wildlife Management
AR 200-4	Cultural Resources Management
AR 200-5	Pest Management
AR 380-5	Information Security Programs
AR 385-10	Army Safety Program
AR 385-40	Army Accident Investigation and Reporting
AR 385-55	Prevention of Motor Vehicle Accidents
AR 420-1	Army Facilities Management
AR 420-74	Natural Resources – Land, Forest, and Wildlife Management
AR 420-76	Pest Management
AR 420-90	Fire Operations
AR 530-1	Operations Security
AR 600-50	Standards of Conduct for Department of Army Personnel
AR 600-63	Army Health Promotion
AR 608-10	Child Development Services
ARD 2014-23	Conduct of Screening and Background Checks for Individuals Who Have Regular Contact with Children in Army Programs
29 CFR Part 1910	Occupational Safety and Health Standards
40 CFR	Protection of the Environment
40 CFR Subchapter I	Solid Wastes
40 CFR 202	Motor Carriers Engaged in Interstate Commerce
40 CFR 257	Criteria for Classification of Solid Waste Disposal Facilities and Practices
40 CFR Part 302	Protection of Environment, designation, Reportable Quantities and Notification
49 CFR 390-396	Motor Carrier Safety Standards



49 CFR 571	Federal Motor Vehicle Safety Standards
Clean Air Act (CAA)	
Clean Water Act (CWA)	
Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)	
DA PAM 385-40	Army Accident Investigations and Reporting
DA PAM 420-1-1	Housing Management*
DoD 4160.21-M	Defense Materiel Disposition Manual
DoDD 5500.7-R	Joint Ethics Regulation
DoDI 1402.5	Criminal History Background Checks On Individuals in Child Care Services
DoDI 4150.07	DoD Pest Management Program
DoDI 5000.72	DoD Standard for Contracting Officer's Representative (COR) Certification
EM 385 1 1	Safety and Health Requirements Manual
EO 13423	Strengthening Federal Environmental, Energy, and Transportation Management
EO 13693	Planning for Federal Sustainability in the Next Decade
EPA, Method 9095	Paint Liquids Filter Test
EPA, SW-846	Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods
FC 3-260-06F	Air Force design, Construction, Maintenance, and Evaluation of Snow and Ice Airfields in Antarctica 06-01-2015
Federal Standard #313	Material Safety Data and Disposal Data for Hazardous Materials Furnished to Government Activities
Federal Standard #595	Colors
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIPS PUB 201-2	Personal Identity Verification (PIV) of Federal Employees and Contractors

**Garrison's Snow, Ice, and Sand Removal Control Plan**

HSPD 12	Homeland Security Presidential Directive 12 Policy for a Common Identification Standard for Federal Employees and Contractor
IDG	Installation design Guide
NFPA 1.12-2	Combustible Fibers
OMB M-05-24	Office of Management and Budget (OMB) Guidance Implementation of Homeland Security Presidential Directive (HSPD) 12 – Policy for a Common Identification Standard for Federal Employees and Contractors

OPORD 13-153	Enterprise Municipal Services Performance Standards
SF 95	Position of Public Trust
TB MED 530 5-28,(h)(i)	Tri-Service Food Code
TM 5-623	Pavement Maintenance Management
TM 5-624	Maintenance and Repair of Surface Areas
TM 5-634	Solid Waste Management
TM 5-683	Electrical Interior Facilities
TM 5-820-4	Drainage for Areas other than Airfields
TM 9-6150-226-13	Electrical Feeder System
UFC 1-200-01	DoD Building Code (General Building Requirements)
UFC 4-010-1	DoD Minimum Antiterrorism Standards for buildings (Change 1)
UFC 4-021-01	Design and O&M for Mass Notification Systems
UFC 4-021-02NF	Security Engineering Electronic Security Systems
UFC 3-101-01	Architecture 11-28-2011
UFC 3-110-03	Roofing, with Change 1 05-01-2012
UFC 3-110-04	Roofing Maintenance and Repair 01-11-2007
UFC 3-120-01	Design: Sign Standards, with Change 2 03-01-2014
UFC 3-120-10	Interior design, with Change 1 06-15-2006
UFC 3-190-06	Protective Coatings and Paints 01-16-2004
UFC 3-201-01	Civil Engineering 06-01-2013
UFC 3-201-02	Landscape Architecture, with Change 1 02-23-2009
UFC 3-210-10	Low Impact Development 07-01-2015
UFC 3-220-01	Geotechnical Engineering 11-01-2012
UFC 3-220-04	Backfill for Subsurface Structures 01-16-2004
UFC 3-220-05	Dewatering and Groundwater Control 01-16-2004
UFC 3-220-06	Grouting Methods and Equipment 01-16-2004
UFC 3-220-08	Engineering Use of Geotextiles 01-16-2004
UFC 3-220-10N	Soil Mechanics 06-08-2005

UFC 3-230-01	Water Storage, Distribution, and Transmission, with Change 2 11-01-2012
UFC 3-230-02	O&M: Water Supply Systems 07-10-2001
UFC 3-230-03	Water Treatment 11-01-2012
UFC 3-230-06A	Subsurface Drainage, with Changes 1-2 01-16-2004
UFC 3-240-01	Wastewater Collection, with Change 1 11-01-2012
UFC 3-240-02	Domestic Wastewater Treatment 11-01-2012
UFC 3-240-03N	Wastewater Treatment System Augmenting Handbook Operation and Maintenance 01-16-2004
UFC 3-240-05A	Solid Waste Incineration 01-16-2004
UFC 3-240-10A	Sanitary Landfill 01-16-2004
UFC 3-240-13FN	Industrial Water Treatment Operation and Maintenance 05-25-2005
UFC 3-250-01FA	Pavement design for Roads, Streets, Walks, and Open Storage Areas 01-16-2004
UFC 3-250-03	Standard Practice Manual for Flexible Pavements 05-15-2001
UFC 3-250-04	Standard Practice for Concrete Pavements, with Change 2 01-16-2004
UFC 3-250-06	Repair of Rigid Pavements Using Epoxy Resin Grouts, Mortars and Concretes 01-16-2004
UFC 3-250-07	Standard Practice for Pavement Recycling 01-16-2004
UFC 3-250-08FA	Standard Practice for Sealing Joints and Cracks in Rigid and Flexible Pavements 01-16-2004
UFC 3-250-09FA	Aggregate Surfaced Roads and Airfields Areas 01-16-2004
UFC 3-250-11	Soil Stabilization for Pavements 01-16-2004
UFC 3-260-01	Airfield and Heliport Planning and design 11-17-2008
UFC 3-260-02	Pavement design for Airfields 06-30-2001
UFC 3-260-03	Airfield Pavement Evaluation 04-15-2001
UFC 3-260-05A	Marking of Army Airfield Heliport Operational and Maintenance Facilities, with Change 1 01-16-2004
UFC 3-260-11 FA	Model design-Build (D-B) Request for Proposal (RFP) For Airfield Contracts 05-25-2005
UFC 3-260-16 FA	FA Airfield Pavement Condition Survey Procedures Pavements 01-16-2004
UFC 3-260-17	Dust Control for Roads, Airfields and Adjacent Areas 01-16-2004

UFC 3-270-01	Asphalt Maintenance and Repair 03-15-2001
UFC 3-270-02	Asphalt Crack Repair 03-15-2001
UFC 3-270-03	Concrete Crack and Partial-Depth Spall Repair 03-15-2001
UFC 3-270-04	Concrete Repair 03-15-2001
UFC 3-270-05	Paver Concrete Surfaced Airfields Pavement Condition Index (PCI) 03-15-2001
UFC 3-270-06	Paver Asphalt Surfaced Airfields Pavement Condition Index (PCI) 03-15-2001
UFC 3-270-07 O&M	O&M: Airfield Damage Repair 08-12-2002
UFC 3-270-08	Pavement Maintenance Management 01-16-2004
UFC 3-280-01A	Guidance for Ground Water/Fuel Extraction and Ground Water Injection Systems 01-16-2004
UFC 3-280-04	Army Filtration of Liquids 12-17-2003
UFC 3-301-01	Structural Engineering, with Change 1 06-01-2013
UFC 3-310-04	Seismic design for Buildings 06-01-2013
UFC 3-310-08	Non-Expeditionary Bridge Inspection, Maintenance and Repair, with Change 1 08-16-2010
UFC 3-320-06A	Concrete Floor Slabs on Grade Subjected to Heavy Loads 03-01-2005
UFC 3-340-01	design and Analysis of Hardened Structures to Conventional Weapons Effects (FOUO) 06-30-2002
UFC 3-340-02	Structures to Resist the Effects of Accidental Explosions, with Change 2 12-05-2008
UFC 3-400-02	design: Engineering Weather Data 02-28-2003
UFC 3-401-01	Mechanical Engineering 07-01-2013
UFC 3-410-01	Heating, Ventilating, and Air Conditioning Systems, with Change 1 07-01-2013
UFC 3-410-02	Lonworks (R) Direct Digital Control for HVAC and Other Local Building Systems, with Change 1 05-01-2012
UFC 3-410-04N	Industrial Ventilation 10-25-2004
UFC 3-420-01	Plumbing Systems, with Change 9 10-25-2004
UFC 3-420-02FA	Compressed Air, with Change 1 05-15-2003
UFC 3-430-01FA	Heating and Cooling Distribution Systems 07-25-2003
UFC 3-430-02FA	Central Steam Boiler Plants, with Change 1 05-15-2003
UFC 3-430-07	Operations and Maintenance: Inspection and Certification of Boilers and Unfired Pressure Vessels, with Change 4 07-24-2003

UFC 3-430-08N	Central Heating Plants 01-16-2004
UFC 3-430-09	Exterior Mechanical Utility Distribution, with Change 1 01-16-2004
UFC 3-430-11	Boiler Control Systems 02-14-2001
UFC 3-440-01	Facility-Scale Renewable Energy Systems 07-01-2015
UFC 3-440-05N	Tropical Engineering, with Changes 1-2 01-16-2004
UFC 3-450-01	Noise and Vibration Control 05-15-2003
UFC 3-470-01	Lonworks (R) Utility Monitoring and Control System (UMCS) 05-01-2012
UFC 3-460-01	design: Petroleum Fuel Facilities, with Change 2 08-16-2010
UFC 3-460-03	O&M: Maintenance of Petroleum Systems 01-21-2003
UFC 3-501-01	Electrical Engineering, with Change 3 02-03-2010
UFC 3-510-01	Foreign Voltages and Frequencies Guide, with Change 2 03-01-2005
UFC 3-520-01	Interior Electrical Systems, with Change 3 02-03-2010
UFC 3-520-05	Stationary Battery Areas, with Change 1 05-01-2015
UFC 3-530-01	Interior and Exterior Lighting Systems and Controls 04-01-2015
UFC 3-535-01	Visual Air Navigation Facilities 11-17-2005
UFC 3-540-01	Engine-Driven Generator Systems for Backup Power Applications 08-01-2014
UFC 3-550-01	Exterior Electrical Power Distribution with Change 1 02-03-2010
UFC 3-555-01N	400 Hertz Medium Voltage Conversion/Distribution and Low Voltage Utilization Systems 01-16-2004
UFC 3-560-01	Electrical Safety, O&M, with Change 5 12-06-2006
UFC 3-570-02A	Cathodic Protection 03-01-2005
UFC 3-570-02N	Electrical Engineering Cathodic Protection 01-16-2004
UFC 3-570-06	O&M: Cathodic Protection Systems 01-31-2003
UFC 3-575-01	Lightning and Static Electricity Protection Systems 07-01-2012
UFC 3-580-01	Telecommunications Building Cabling Systems Planning and design 06-22-2007
UFC 3-580-10	Navy and Marine Corps Intranet (NMCI) Standard Construction Practices, with Changes 1-3 07-14-2004
UFC 3-600-01	Fire Protection Engineering for Facilities, with Change 3 09-26-2006

UFC 3-601-02	Operations and Maintenance: Inspection, Testing, and Maintenance of Fire Protection Systems; 09-08-2010
42 U.S.C. 6901	Resource Conservation and Recovery Act (RCRA), Solid Waste Disposal Act (SWDA) of 1976, as amended, including Subtitle D

#### 7.2.1 Forms. Mandatory records and report forms

DA Form 5-34	Repairs and Utilities Operating Log
DA Form 958	(paragraph 5.1.2.17; g.)
DA Form 2702	Bill of Materials
DA Form 3161	Request for Issue or Turn-In
DA Form 4141	Facilities Engineering Operating Log
DA Form 4283	Facilities Engineering Work Request
DA Form 4284	Facilities Engineering Work Order (if work is accomplished in-house)
DA Form 7485-R	Elevator Inspection Checklist
DD Form 200	Financial Liability Investigation of Property Loss (FLIPL).
DD Form 254	Department of Defense Contract Security Classification Specification
DD Form 577	Appointment/Termination Record
DD Form 1348-1	Release/Receipt Document
FB Form 1347	(paragraph 5.9.2.1; e.)
FB Form 1454V2	Change Form (paragraph 5.1.2.24; f.)
NFPA 72	System record of inspection and testing form
NFPA 25	Centrifugal fire pump annual test form
NFPA 25	Inspection tags

#### 7.3 Technical Exhibit (TE)

The Contractor shall update all the technical exhibit documents for all Functional Areas. Documents in which an update is required, shall be provided to the KO and COR monthly for review and approval. Approved updated Technical Exhibits will be modified into the current contract by the Contracting Officer. Reference the TE Index for a list of all TEs in this Contract.

#### Technical Exhibit Index

<b><u>TECHNICAL EXHIBIT 1 MAPS</u></b>	
TE 1 A	ADELPHI MAP
TE 1 B	ABERDEEN PROVING GROUND NORTH MAP
TE 1 C	ABERDEEN PROVING GROUND SOUTH MAP
<b><u>TECHNICAL EXHIBIT 2 ITM WORKLOAD</u></b>	
TE 2 A	ANSUL KITCHEN HOOD SYSTEMS
TE 2 B	CLASS K HOOD SYSTEM
TE 2 C	CLEAN AGENT/HFC 125
TE 2 D	CLEAN AGENT/ENERGEN/FM 200
TE 2 E	CLEAN AGENT/HFC 227
TE 2 F	CLEAN AGENT/1230
TE 2 G	CO2
TE 2 H	DELUGE SYSTEM
TE 2 J	MIST SYSTEMS

TE 2 K	DRY PIPE SYSTEM
TE 2 L	FIRE PUMP
TE 2 M	FIRE ALARM SYSTEMS ADDRESSABLE
TE 2 N	FIRE ALARM SYSTEM NON-ADDRESSABLE
TE 2 P	HALON
TE 2 Q	N2
TE 2 R	KFRC-I RECEIVER STATION
TE 2 S	KING FISHER COMBO
TE 2 T	KING FISHER IRAC
TE 2 U	MASS NOTIFICATION SYSTEM
TE 2 X	PRE-ACTION AUTOMATIC
TE 2 Y	VESDA LASER PLUS
TE 2 Z	WET SYSTEM
<b><u>TECHNICAL EXHIBIT 3 TRANSMITTERS WITH TIER LEVELS</u></b>	
TE 3 A	KING FISHER TRANSMITTERS ABERDEEN AREA WITH TIER LEVEL
TE 3 B	KING FISHER TRANSMITTERS EDGEWOOD AREA WITH TIER LEVEL
TE 3 C	AES TRANSMITTERS ABERDEEN AREA WITH TIER LEVEL
TE 3 D	AES TRANSMITTERS EDGEWOOD AREA WITH TIER LEVEL
<b><u>TECHNICAL EXHIBIT 4 IMCOM REQUIREMENTS/STANDARDS</u></b>	
TE 4 A	HISTORIC BUILDINGS
TE 4 B	ITM COMMON REPAIR PARTS
<b><u>TECHNICAL EXHIBIT 5 FORMS</u></b>	
TE 5 A	NFPA 72 SYSTEM RECORD OF INSPECTION AND TESTING
TE 5 B	NFPA 25 CENTRIFUGAL FIRE PUMP ANNUAL TEST FORM
TE 5 C	NFPA 25 SYSTEM INSPECTION TAGS
<b><u>TECHNICAL EXHIBIT 6 SPECIAL REQUIREMENT DOCUMENT</u></b>	
TE 6 A	EO 13693

Technical Exhibit 1 - Area Maps

(TE 1 A) Adelphi Laboratory Center

(TE 1 B) Aberdeen Proving Ground North

(TE 1 C) Aberdeen Proving Ground South This document is required for every PWS and can be obtained from the COR/ACOR, which can include documents on overall place of performance

Technical Exhibit 1 - Area Maps  
(TE 1 A) Adelphi Laboratory Center





**(TE 1 B) Aberdeen Proving Ground North**



Aberdeen Proving Ground  
Edgewood Area

0 0.25 0.5 1 1.5 2 Miles

This document is required for every PWS and can be obtained from the COR/ACOR, which can include documents on overall place of performance

TECHNICAL EXHIBIT 2A  
FSP: ANSUL KITCHEN HOOD SYSTEMS  
**Table 2-19. Wet Chemical Systems ITM Tasks**

Frequency	Component	Tasks
Semi-Annually	1. Hazard	1. Verify that hazard has not changed.
	2. Piping	1. Inspect piping for obstructions and proper support. 2. Verify the presence of all required blow off caps. 3. Verify nozzles are appropriately aimed at the hazard.
	3. Storage Vessels	1. Inspect agent container for condition. 2. Verify the storage pressure of the propellant.
	4. Agent	1. Verify quantity of agent through ultrasonic measuring.
	5. Actuators	1. Inspect manual actuators for accessibility. 2. Inspect detection devices (fusible links or heat detectors) for contamination and clean or replace as necessary. 3. Test actuation system without agent release. 4. Verify that interfaces (gas shutoff, power shutoff) operate properly.
		5. Replace fixed temperature-sensing elements (fusible link metal alloy type and automatic sprinklers metal alloy type).
5-12 Years	1. Storage Vessels	1. Conduct hydrostatic test for pressure cylinders in accordance with OSHA and DOT standards.
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: a. Pipe hangers. b. Nozzles for obstruction and proper alignment. c. Riser condition. 2. Ensure: a. Detectors unblocked/uncovered. b. Panels secured and indicator lamps functional.

		<ul style="list-style-type: none"> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> <li>e. Nozzle covers (blow-off caps) in place.</li> <li>f. Pressure gauge within operating range.</li> </ul>
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**LOCATIONS:**

<b>STATUS</b>	<b>BUILDING NUMBER (OCCUPANCY)</b>	<b>ADDRESS</b>	<b>SQUARE FOOTAGE</b>	<b>TIER LEVEL</b>
In Service	ALC 204	204 Floral Drive	514,657	1
In Service	ALC 204	204 Floral Drive	514,657	1
In Service	2342	6501 Aberdeen Boulevard	17,314	1
In Service	2485 / 2486	6441 Rock Island Street	43,020	1
In Service	2485 / 2486	6441 Rock Island Street	43,020	1
In Service	2521	6430 Bayside Drive	12,897	1
In Service	2522	6448 Bayside Drive	19,599	1
In Service	3326	6432 Ashbury St	27,957	2
In Service	E1901	8116 Scully Road	9,636	1
Out of Service	E4225	8424 Otto Road	14,015	4

**TECHNICAL EXHIBIT 2B**  
**FSP: CLASS K HOOD SYSTEM**  
**Table 2-19. Wet Chemical Systems ITM Tasks**

<b>Frequency</b>	<b>Component</b>	<b>Tasks</b>
Semi-Annually	1. Hazard	1. Verify that hazard has not changed.
	2. Piping	<ul style="list-style-type: none"> <li>1. Inspect piping for obstructions and proper support.</li> <li>2. Verify the presence of all required blow off caps.</li> <li>3. Verify nozzles are appropriately aimed at the hazard.</li> </ul>
	3. Storage Vessels	<ul style="list-style-type: none"> <li>1. Inspect agent container for condition.</li> <li>2. Verify the storage pressure of the propellant.</li> </ul>
	4. Agent	1. Verify quantity of agent through ultrasonic measuring.

	5. Actuators	<ol style="list-style-type: none"> <li>1. Inspect manual actuators for accessibility.</li> <li>2. Inspect detection devices (fusible links or heat detectors) for contamination and clean or replace as necessary.</li> <li>3. Test actuation system without agent release.</li> <li>4. Verify that interfaces (gas shutoff, power shutoff) operate properly.</li> </ol>
		5. Replace fixed temperature-sensing elements (fusible link metal alloy type and automatic sprinklers metal alloy type).
5-12 Years	1. Storage Vessels	1. Conduct hydrostatic test for pressure cylinders in accordance with OSHA and DOT standards.
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	<ol style="list-style-type: none"> <li>1. Visually check: <ol style="list-style-type: none"> <li>a. Pipe hangers.</li> <li>b. Nozzles for obstruction and proper alignment.</li> <li>c. Riser condition.</li> </ol> </li> <li>2. Ensure: <ol style="list-style-type: none"> <li>a. Detectors unblocked/uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> <li>e. Nozzle covers (blow-off caps) in place.</li> <li>f. Pressure gauge within operating range.</li> </ol> </li> </ol>

**LOCATION:**

<b>STATUS</b>	<b>BUILDING NUMBER (OCCUPANCY)</b>	<b>ADDRESS</b>	<b>SQUARE FOOTAGE</b>	<b>TIER LEVEL</b>
In Service	30	6817 6817 Plumb Point Dr	58,085	1
In Service	2330	6507 Aberdeen Boulevard	3,624	4
In Service	2330	6507Aberdeen Boulevard	3,624	4
In Service	2486	6441 Rock Island Street	144	4
In Service	3326	6432 Ashbury St	27,957	2
In Service	3326	6432 Ashbury St	27,957	2
In Service	3400	6444 Aberdeen Boulevard	68,252	2
In Service	4503	6482 Springfield Street	21,266	2
In Service	5600	6684 Ruggles Road	10,074	3

In Service	640B	7368 Anti-Aircraft Loop	900	4
In Service	640B	7368 Anti-Aircraft Loop	900	4
In Service	E4305	8451 Nike Rd	77,367	4

**TECHNICAL EXHIBIT 2C**  
**FSP: CLEAN AGENT/HFC 125**  
**Table 2-21. Clean Agent Systems ITM Tasks**

Frequency	Component	Tasks
Annually	1. Hazard	1. Verify that hazard has not changed.
	2. Piping	1. Inspect piping and nozzles for condition and orientation.
	3. Flexible Hoses	1. Inspect for damage.
	4. Storage Vessels	1. Inspect the exterior of storage containers (tanks, spheres, cylinders).
	5. Agent and Propellant	1. Verify adequate quantity of agent. Use ultra-sound or liquid level sensing; do not disconnect and weigh tanks. 2. Verify adequate pressure of agent/propellant and pressure gauge within operating range.
	6. Actuators	1. Inspect manual actuators for accessibility. 2. Test actuation without agent release.
	7. Auxiliary Equipment	1. Test to verify that interfaces (equipment shutdown, dampers, and door closures) operate properly and are activated by the system actuation.
	8. Valves	1. Verify that the valves are in proper alignment.
2 Years	1. Protected Enclosure or Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration.
5 Years	1. Cylinders	1. Perform complete external inspection of non-discharged cylinders to ensure suitability for use.
	2. Flexible Hoses	1. Pressure test hoses to ensure suitability for use.
After Modification to Compartment/ Protected Enclosure	1. Protected Enclosure/Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration. 2. If uncertainty exists, follow the enclosure procedures in NFPA 2001.



[illegible]



In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	E4305	8451 Nike Rd	77,367	2

**TECHNICAL EXHIBIT 2D**  
**FSP: CLEAN AGENT/ENERGEN/FM 200**  
**Table 2-21. Clean Agent Systems ITM Tasks**

Frequency	Component	Tasks
Annually	1. Hazard	1. Verify that hazard has not changed.
	2. Piping	1. Inspect piping and nozzles for condition and orientation.
	3. Flexible Hoses	1. Inspect for damage.
	4. Storage Vessels	1. Inspect the exterior of storage containers (tanks, spheres, cylinders).

	5. Agent and Propellant	<ol style="list-style-type: none"> <li>1. Verify adequate quantity of agent. Use ultrasound or liquid level sensing; do not disconnect and weigh tanks.</li> <li>2. Verify adequate pressure of agent/propellant and pressure gauge within operating range.</li> </ol>
	6. Actuators	<ol style="list-style-type: none"> <li>1. Inspect manual actuators for accessibility.</li> <li>2. Test actuation without agent release.</li> </ol>
	7. Auxiliary Equipment	<ol style="list-style-type: none"> <li>1. Test to verify that interfaces (equipment shutdown, dampers, and door closures) operate properly and are activated by the system actuation.</li> </ol>
	8. Valves	<ol style="list-style-type: none"> <li>1. Verify that the valves are in proper alignment.</li> </ol>
2 Years	1. Protected Enclosure or Room	<ol style="list-style-type: none"> <li>1. Inspect the enclosure to verify integrity and ability to maintain agent concentration.</li> </ol>
5 Years	1. Cylinders	<ol style="list-style-type: none"> <li>1. Perform complete external inspection of non-discharged cylinders to ensure suitability for use.</li> </ol>
	2. Flexible Hoses	<ol style="list-style-type: none"> <li>1. Pressure test hoses to ensure suitability for use.</li> </ol>
After Modification to Compartment/ Protected Enclosure	1. Protected Enclosure/Room	<ol style="list-style-type: none"> <li>1. Inspect the enclosure to verify integrity and ability to maintain agent concentration.</li> <li>2. If uncertainty exists, follow the enclosure procedures in NFPA 2001.</li> </ol>
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	<ol style="list-style-type: none"> <li>1. Visually check: <ol style="list-style-type: none"> <li>a. Pipe hangers.</li> <li>b. Nozzle for obstruction.</li> <li>c. Piping for leaks.</li> <li>d. Riser condition.</li> </ol> </li> <li>2. Ensure: <ol style="list-style-type: none"> <li>a. Detectors unblocked/uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> <li>e. Nozzle covers in place.</li> <li>f. Pressure gauge within operating range.</li> </ol> </li> </ol>

**LOCATION:**

<b>STATUS</b>	<b>BUILDING NUMBER (OCCUPANCY)</b>	<b>ADDRESS</b>	<b>SQUARE FOOTAGE</b>	<b>TIER-LEVEL</b>
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	269E	6792 Trench Warfare Road	3,929	2

[illegible]

In Service	394	6925 Mauchly Street	53,647	1
In Service	394	6925 Mauchly Street	53,647	1
In Service	394	6925 Mauchly Street	53,647	1
In Service	394	6925 Mauchly Street	53,647	1
In Service	394	6925 Mauchly Street	53,647	1
In Service	400	6943 Colleran Road	44,288	1
In Service	400	6943 Colleran Road	44,288	1
In Service	400	6943 Colleran Road	44,288	1
In Service	400	6943 Colleran Road	44,288	1
In Service	400	6943 Colleran Road	44,288	1
In Service	400	6943 Colleran Road	44,288	1
In Service	400A	6927 Colleran Road	1,050	1
In Service	459C	7101 Mulberry Point Rd	120	1
In Service	633A	7314 Mulberry Point Rd	298	1
In Service	669	7229 Plate Range Road	298	1
In Service	922 E2	7545 Live Fire Rd	761	2
In Service	922 E2	7545 Live Fire Rd	761	2
In Service	922 E5	7630 Live Fire Rd	761	2
Out of Service	922 E5	7630 Live Fire Rd	761	2
In Service	1114A	6111 Morgan Rd	240	1
In Service	3000	6644 Aberdeen Blvd	324	4
In Service	3323	6516 Aberdeen Blvd	324	4
In Service	3500	6460 Rodman Road	252	1
In Service	5615	6604 Cruise Rd	252	1
In Service	6002	6585 Surveillance Loop	276,276	4
In Service	6002	6585 Surveillance Loop	276,276	4
In Service	6002	6585 Surveillance Loop	276,276	4
In Service	6002	6585 Surveillance Loop	276,276	4
In Service	6002	6585 Surveillance Loop	276,276	4
In Service	6002	6585 Surveillance Loop	276,276	4
In Service	6002	6585 Surveillance Loop	276,276	4
In Service	6002	6585 Surveillance Loop	276,276	4
In Service	6002	6585 Surveillance Loop	276,276	4
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1

In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	E2193	9062 Willoughby Rd	602	4
In Service	E2400	9088 21 <sup>st</sup> St	41,062	1
In Service	E3000	8942 Willoughby Rd	302	1
In Service	E3000	8942 Willoughby Rd	302	1
In Service	E3330 (formerly E3331)	8505 Ricketts Point Road	50,814	4
In Service	E3330 (formerly E3331)	8505 Ricketts Point Road	50,814	4
In Service	E3375	8891 Master St	2,520	4
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3461	8526 Ricketts Point Road	588	1
In Service	E4500	8682 Glory St	302	4
In Service	E5234	8270 14th Street	15,889	4
In Service	E5234	8270 14th Street	15,889	4
In Service	E5600	8733 Fleming Road	298	4
In Service	E7239	8468 Maxwell Point Rd	240	4
In Service	G8003	5 Lace Rd, Graces Quarters	6,408	4
In Service	G8003	5 Lace Rd, Graces Quarters	6,408	4
In Service	G8003	5 Lace Rd, Graces Quarters	6,408	4

**TECHNICAL EXHIBIT 2E**  
**FSP: CLEAN AGENT/HFC 227**  
**Table 2-21. Clean Agent Systems ITM Tasks**

Frequency	Component	Tasks
Annually	1. Hazard	1. Verify that hazard has not changed.
	2. Piping	1. Inspect piping and nozzles for condition and orientation.

	3. Flexible Hoses	1. Inspect for damage.
	4. Storage Vessels	1. Inspect the exterior of storage containers (tanks, spheres, cylinders).
	5. Agent and Propellant	1. Verify adequate quantity of agent. Use ultrasound or liquid level sensing; do not disconnect and weigh tanks. 2. Verify adequate pressure of agent/propellant and pressure gauge within operating range.
	6. Actuators	1. Inspect manual actuators for accessibility. 2. Test actuation without agent release.
	7. Auxiliary Equipment	1. Test to verify that interfaces (equipment shutdown, dampers, and door closures) operate properly and are activated by the system actuation.
	8. Valves	1. Verify that the valves are in proper alignment.
2 Years	1. Protected Enclosure or Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration.
5 Years	1. Cylinders	1. Perform complete external inspection of non-discharged cylinders to ensure suitability for use.
	2. Flexible Hoses	1. Pressure test hoses to ensure suitability for use.
After Modification to Compartment/Protected Enclosure	1. Protected Enclosure/Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration. 2. If uncertainty exists, follow the enclosure procedures in NFPA 2001.
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: a. Pipe hangers. b. Nozzle for obstruction. c. Piping for leaks. d. Riser condition. 2. Ensure: a. Detectors unblocked/uncovered. b. Panels secured and indicator lamps functional. c. Notification appliances in place. d. Manual stations in place and unobstructed. e. Nozzle covers in place. f. Pressure gauge within operating range.

**LOCATION:**

<b>STATUS</b>	<b>BUILDING NUMBER (OCCUPANCY)</b>	<b>ADDRESS</b>	<b>SQUARE FOOTAGE</b>	<b>TIER-LEVEL</b>
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In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1

**TECHNICAL EXHIBIT 2F**  
**FSP: CLEAN AGENT/1230**

**Table 2-21. Clean Agent Systems ITM Tasks**

<b>Frequency</b>	<b>Component</b>	<b>Tasks</b>
Annually	1. Hazard	1. Verify that hazard has not changed.
	2. Piping	1. Inspect piping and nozzles for condition and orientation.
	3. Flexible Hoses	1. Inspect for damage.
	4. Storage Vessels	1. Inspect the exterior of storage containers (tanks, spheres, cylinders).
	5. Agent and Propellant	1. Verify adequate quantity of agent. Use ultrasound or liquid level sensing; do not disconnect and weigh tanks. 2. Verify adequate pressure of agent/propellant and pressure gauge within operating range.
	6. Actuators	1. Inspect manual actuators for accessibility. 2. Test actuation without agent release.
	7. Auxiliary Equipment	1. Test to verify that interfaces (equipment shutdown, dampers, and door closures) operate properly and are activated by the system actuation.
	8. Valves	1. Verify that the valves are in proper alignment.
2 Years	1. Protected Enclosure or Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration.
5 Years	1. Cylinders	1. Perform complete external inspection of non-discharged cylinders to ensure suitability for use.
	2. Flexible Hoses	1. Pressure test hoses to ensure suitability for use.
After Modification to Compartment/ Protected Enclosure	1. Protected Enclosure/Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration. 2. If uncertainty exists, follow the enclosure procedures in NFPA 2001.

As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: <ul style="list-style-type: none"> <li>a. Pipe hangers.</li> <li>b. Nozzle for obstruction.</li> <li>c. Piping for leaks.</li> <li>d. Riser condition.</li> </ul> 2. Ensure: <ul style="list-style-type: none"> <li>a. Detectors unblocked/uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> <li>e. Nozzle covers in place.</li> <li>f. Pressure gauge within operating range.</li> </ul>
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**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	6260	6260 Guardian Gateway	74,321	N/A
In Service	E5103	8276 Rouse Road	21,481	1
In Service	E5103	8276 Rouse Road	21,481	1
In Service	E5103	8276 Rouse Road	21,481	1
In Service	E5103	8276 Rouse Road	21,481	1

TECHNICAL EXHIBIT 2G

FSP: CO2

Contained in NFPA 12

Table 2-22. Carbon Dioxide Systems ITM Tasks

Frequency	Component	Tasks
Semi-Annually	1. Liquid Level (low pressure carbon dioxide [CO <sub>2</sub> ])	1. Verify adequate liquid level with tank level gauge.
Annually	1. Hazard	1. Verify that hazard has not changed.
	2. Piping and Nozzles	1. Inspect piping for condition and proper support. 2. Check nozzles for obstruction and alignment.
	3. Flexible Hoses	1. Inspect for damage.
	4. Low Pressure Tanks	1. Check level and pressure gauges. 2. Verify valve alignment.



	5. High Pressure Cylinders	1. Inspect for condition and securing.
	6. Actuation System	1. Exercise control panel function, including zone valve operation. 2. Inspect manual actuators for accessibility. 3. Check times and time delay (pre-discharge).
	7. Auxiliary Equipment	1. Test to verify that interfaces (shutdown, door closers, and dampers) operate properly and are activated by the control panel.
2 Years	1. High Pressure Cylinders	1. Verify CO2 quantity by weighing cylinders.
After Modification to Compartment/ Protected Enclosure	1. Protected Enclosure/Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration. 2. If uncertainty exists, follow the enclosure procedures in NFPA 2001.
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: <ul style="list-style-type: none"> <li>a. Pipe hangers.</li> <li>b. Nozzles for obstruction.</li> <li>c. Piping for leaks.</li> <li>d. Riser condition.</li> </ul> 2. Ensure: <ul style="list-style-type: none"> <li>a. Detectors unblocked/uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> <li>e. Nozzle covers in place.</li> </ul>

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	337	6927 Goldstine Drive	1,152	2
In Service	445	7058 Vice St	7,283	3
In Service	445	7058 Vice St	7,283	3
In Service	445	7058 Vice St	7,283	3
In Service	4603	6340 Rodman Road	35,568	1
In Service	4603	6340 Rodman Road	35,568	1
In Service	4603	6340 Rodman Road	35,568	1
In Service	4603	6340 Rodman Road	35,568	1
In Service	4603	6340 Rodman Road	35,568	1
In Service	4603	6340 Rodman Road	35,568	1
Out of Service	E5884	8563 Greenhouse Avenue	11,167	1

Table 2-4. Deluge Sprinkler Systems ITM Tasks

Frequency	Component	Tasks
Monthly	1. Control Valves (without seal, lock, or electric supervision)	1. Verify proper valve position.
Before the Onset of Freezing Weather	1. Valve and Riser Heated Enclosure (if provided)	1. Verify operability at the beginning of the heating season.
	2. Low Temperature Alarm	1. Verify initiation and receipt of alarm at the beginning of the heating season.
	3. Low Point Drains	1. Drain all low points after deluge valve test and before cold weather.
Annually	1. Control Valves (sealed, locked, or electrically supervised)	1. Verify proper valve position.
	2. Water Flow Alarm Devices	1. Operate alarm test valve to verify initiation and receipt of alarm. 2. Verify alarm test valve alignment and tamper switch (if sealed or electrically supervised).
	3. Deluge Alarm Valve and Trim	1. Inspect the exterior of valves, gauges, trim alignment. 2. Verify valve pressure and legibility of the hydraulic nameplate.
	4. Main Drain	1. Conduct a main drain test to verify supply (valve position). 2. Document static and residual pressure readings on a 3-inch by 5-inch tag and secure it to the system pressure gauge. 3. Compare results with results from previous main drain tests and original acceptance test. 4. Verify that the results are within acceptable limits or identify corrective measures.
	5. Fire Department Connection	1. Verify accessibility and condition. 2. If caps are removed or missing, check for obstructions. 3. Verify system check valve is not leaking. 4. Verify Gaskets are present. 5. Lubricate if swivels do not rotate smoothly. 6. Verify proper operation of ball drip drain prior to the cold season.
2 Years	1. Control Valves	1. Operate valve through entire travel to verify function. 2. Lubricate valves and stems to ensure operability. 3. Verify that valve supervisory switches detect a change in valve position.

	2. Deluge Valve	<ol style="list-style-type: none"> <li>1. Trip to verify operability.</li> <li>2. Verify that manual actuators are operable.</li> <li>3. Inspect the internal condition and clean valve seat before resetting.</li> </ol>
	3. Low Point Drains	<ol style="list-style-type: none"> <li>1. Drain all low points after each valve trip.</li> </ol>
5 Years	1. Strainers	<ol style="list-style-type: none"> <li>1. Inspect internally and clean to verify condition.</li> </ol>
10 Years	1. Gauges	<ol style="list-style-type: none"> <li>1. Calibrate or replace.</li> </ol>
	2. Deluge Valve	<ol style="list-style-type: none"> <li>1. Conduct full flow test.</li> </ol>
	1. Distribution System	<ol style="list-style-type: none"> <li>1. Verify nozzle (sprinkler) coverage during flow test.</li> <li>2. Inspect piping and nozzles for condition and location.</li> </ol>
Following System Modification or Repair	1. Main Drain (following maintenance or repair action requiring the water supply to be shut off)	<ol style="list-style-type: none"> <li>1. Conduct main drain test to verify supply (valve position).</li> <li>2. Compare results with results from previous main drain tests and original acceptance test.</li> <li>3. Verify that the results are within acceptable limits or identify corrective measures.</li> <li>4. Document static and residual pressure readings on a 3-inch by 5-inch tag and secure it to the system pressure gauge.</li> </ol>
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	<ol style="list-style-type: none"> <li>1. Visually check: <ol style="list-style-type: none"> <li>a. Pipe hangers and seismic bracing.</li> <li>b. Sprinklers/nozzles for obstruction.</li> <li>c. Piping for leaks.</li> <li>d. Riser condition.</li> <li>e. Sprinkler spares.</li> </ol> </li> <li>2. Ensure: <ol style="list-style-type: none"> <li>a. Manual stations in place and unobstructed.</li> <li>b. Detectors unblocked/uncovered.</li> <li>c. Panels secured and indicator lamps functional.</li> <li>d. Notification appliances in place.</li> </ol> </li> </ol>

#### LOCATIONS:

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
Out of Service	ALC 107	107 Glenmore Drive	7,936	1
In Service	ALC 403	403 Kuester Road	5,805	1
In Service	383A	6914 Main Front Road	2,863	1
Out of Service	425	6493 Canteen DR	1,718	2
In Service	609	7244 Antiaircraft Loop	6,262	3
In Service	688	7114 Plate Range Road	24,192	1
In Service	690	7098 Plate Range Road	13,228	1
In Service	699	6619 Surveillance Range Road	12,028	1

In Service	700A	6979 Michaelsville Road	4,274	1
In Service	717	6860 Shell Street	5,824	1
In Service	893	7190 Gun Mount Test Rd	897	1
In Service	1060	6870 Cruise Rd	42,575	1
In Service	1124	6083 Moulton Ln	4,579	2
In Service	1124P	6083 Moulton Lane	1,315	2
Out of Service	5100	6631 Cyber St	109,607	1
In Service	E1430	8716 Army St	3,106	1
Out of Service	E3580	8958 Beach Point Road	8,226	1
In Service	E4081	8361 Wise Road	136,646	4

**TECHNICAL EXHIBIT 2J**  
**FSP: MIST SYSTEMS**  
**Table 2-7. Water Mist System ITM Tasks**

Frequency	Component	Task
Weekly	1. Water Tanks (without electric remote supervision of water level)	1. Check water level.
	2. Air Compressor/Receiver/ Cylinders (without electric remote supervision of air pressure)	1. Check air pressure.
Semi-annually	1. Pumps	1. Complete churn test to ensure operability.
	2. Air Compressors	1. Start to ensure operability.
	3. System Operating Components	1. Inspect to verify valve alignment and that valve is free of damage.
Annually	1. Water Tanks (remote electrically supervised and monitored)	1. Check water level detection device and supervisory controls.
	2. Air Compressors/Receivers/ Cylinders (electric remote supervision of air pressure)	1. Check air pressure and supervisory pressure switch.
	3. Water Flow Alarm	1. Operate to verify initiation and receipt of alarm.
	4. Pumps	1. Conduct full flow functional test.
	5. Pressure Relief Devices	1. Manually operate to ensure operability.
	6. Manual Actuators	1. Verify operability.
	7. Control Valve (sectional water supply valve)	1. Verify operability and position.
5 Years	1. Pressure Cylinders (normally at atmospheric pressure)	1. Pressurize to verify operability.
	2. System	1. Conduct flow test.
	3. Water	1. Verify water quality when refilling.
	4. Water Tanks	1. Drain and refill tank. 2. Inspect tanks for structural integrity (interior and exterior) prior to refilling.

	5. Water mist nozzles subject to harsh environments	1. Replace all nozzles or test a sample of nozzles to verify response characteristics. <sup>1</sup>
5-12 Years	1. Storage Vessels	1. Conduct hydrostatic test for pressure cylinders in accordance with OSHA and U.S. Department of Transportation (DOT) standards.
20 Years	1. Water mist nozzles in areas other than harsh environments	1. Replace all nozzles or test a sample of nozzles to verify response characteristics. <sup>1</sup>
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: <ul style="list-style-type: none"> <li>a. Pipe hangers.</li> <li>b. Nozzles for obstruction.</li> <li>c. Piping for leaks.</li> <li>d. Riser condition.</li> <li>e. Nozzle spares.</li> </ul> 2. Ensure: <ul style="list-style-type: none"> <li>a. Manual stations in place and unobstructed.</li> <li>b. Detectors unblocked/uncovered.</li> <li>c. Panels secured and indicator lamps functional.</li> <li>d. Notification appliances in place.</li> </ul>

**Note: A representative sample of nozzles for testing must consist of one (1) percent of the nozzles installed of the same type, with a minimum of four (4) nozzles sampled. The nozzles must be submitted to a recognized testing laboratory (NRTL) for these tests.**

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	E3844	8921 Guard St	42,000	2

**TECHNICAL EXHIBIT 2K**

**FSP: Dry Pipe System**

**Dry Pipe Automatic Sprinkler Systems ITM Tasks**

Frequency	Component	Tasks
Monthly	1. Control Valves (without seal, lock, or electric supervision)	1. Verify proper valve position.
Before the Onset of Freezing	1. Low Point Drains	1. Drain all low points to remove condensation prior to the cold season.

Weather	2. Dry Pipe Alarm Valve Enclosure Heating	1. Verify operability at the beginning of the heating season (annually for constant cold areas).
	3. Low Temperature Alarm	1. Verify initiation and receipt of alarm at the beginning of the heating season.
Annually	1. Control Valves (sealed, locked, or electrically supervised)	1. Verify proper valve position.
	2. Water Flow Alarm Devices	1. Operate alarm test valve to verify initiation and receipt of alarm. 2. Verify alarm test valve alignment and tamper switch (if sealed or electrically supervised).
	3. Dry Pipe Alarm Valve and Trim	1. Visually inspect the exterior of valves, gauges, trim alignment. 2. Verify valve pressure and legibility of the hydraulic nameplate. 3. Verify valve position of provided quick opening devices are in the normal position.
	4. Main Drain	1. Conduct main drain test to verify supply (valve position). 2. Document static and residual pressure readings on a 3-inch by 5- inch tag and secure it to the system pressure gauge. 3. Compare results with results from previous main drain tests and original acceptance test. 4. Verify that the results are within acceptable limits or identify corrective measures.
	5. Fire Department Connection	1. Verify accessibility and condition. 2. If caps are removed or missing, check for obstructions. 3. Verify system check valve is not leaking. 4. Verify gaskets are present. 5. Lubricate if swivels do not rotate smoothly. 6. Verify proper operation of ball drip drain prior to the cold season.
	6. Low Point Drains	1. Drain all low points to remove condensation prior to the cold season.
2 Years	1. Control Valves	1. Operate valve through entire travel to verify function. 2. Lubricate valves and stems to ensure operability. 3. Verify that valve supervisory switches detect a change in valve position.

	2. Dry Pipe Alarm Valves	<ol style="list-style-type: none"> <li>1. Trip valve to verify operability.</li> <li>2. Inspect internal condition before resetting, and clean valve seat.</li> <li>3. Check priming water level (before and after trip test).</li> </ol>
	3. Quick-Opening Devices	<ol style="list-style-type: none"> <li>1. Test to verify operability.</li> </ol>
	4. Low/High Air Pressure Alarms	<ol style="list-style-type: none"> <li>1. Test to verify initiation and receipt of supervisory alarms.</li> </ol>
	5. Automatic Air Pressure Maintenance Devices	<ol style="list-style-type: none"> <li>1. Inspect to verify proper operation.</li> </ol>
5 Years	1. Strainers	<ol style="list-style-type: none"> <li>1. Inspect internally and clean to verify condition.</li> </ol>
10 Years	1. Gauges	<ol style="list-style-type: none"> <li>1. Calibrate or replace gauges.</li> </ol>
10 Years	1. Dry Barrel Sprinklers	<ol style="list-style-type: none"> <li>1. Replace all.<sup>1</sup></li> </ol>
20 Years	1. Fast Response Sprinklers and Extra High Temperature Sprinklers	<ol style="list-style-type: none"> <li>1. Replace all sprinklers.<sup>1</sup></li> </ol>
50 Years, and Every 20 Years Thereafter	1. Standard Sprinkler	<ol style="list-style-type: none"> <li>1. Replace all sprinklers or test a sample of sprinklers to verify response characteristics.<sup>1</sup></li> </ol>
Following System Modification or Repair	1. Main Drain (following maintenance or repair action requiring the water supply to be shut off)	<ol style="list-style-type: none"> <li>1. Conduct main drain test to verify supply (valve position).</li> <li>2. Compare results with results from previous main drain tests and original acceptance test.</li> <li>3. Verify that the results are within acceptable limits or identify corrective measures.</li> <li>4. Document static and residual pressure readings on a 3-inch x 5- inch tag and secure it to the system pressure gauge.</li> </ol>
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	<ol style="list-style-type: none"> <li>1. Visually check: <ol style="list-style-type: none"> <li>a. Pipe hangers and seismic bracing.</li> <li>b. Sprinklers for obstruction.</li> <li>c. Piping for leaks.</li> <li>d. Riser condition.</li> <li>e. Sprinkler spares.</li> </ol> </li> </ol>

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	ALC 507	507 Aurora Drive	16,738	2
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	247	6915 Mauchly Street	8,242	4
In Service	2482	6462 Harford Blvd	8,477	2
In Service	30	6817 Plumb Point Dr	58,085	4
In Service	324	6867 Colleran Rd	21,317	3

In Service	3660	6456 Hancock Dr	50,602	4
In Service	4019	6703 Boothby Hill Ave	9,867	4
In Service	456	6434 Intelligence St	48,499	1
In Service	456	6434 Intelligence St	48,499	1
In Service	501	6464 Narrows Road	38,487	1
In Service	507	7193 Mulberry Point Road	118,423	1
In Service	5600	6684 Ruggles Road	10,074	4
In Service	5600	6684 Ruggles Road	10,074	4
In Service	609	7144 Antiaircraft Loop Road	6,262	3
In Service	638	7358 Antiaircraft Loop Road	4,295	3
In Service	893	7190 Gun Mount Road	1,000	1
In Service	906A	6616 Fords Farm Road	4,800	2
In Service	E1401	8901 Balisage St	13,368	2
In Service	E1675	8072 Wise Road	34,821	4
In Service	E1901	8116 Scully Road	9,636	1
In Service	E1958	8924 Schaefer Road	19,865	2
In Service	E2182	8306 Cadwalder Road	12,477	3
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2901	8907 North Kings Creek Rd	39,180	1
In Service	E2901	8907 North Kings Creek Rd	39,180	1
In Service	E3104	8911 South Kings Creek Rd	4,821	4
In Service	E3150	8938 North Kings Creek Rd	188,266	1
In Service	E3151	8944 North Kings Creek Rd	1,316	1
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3516	8531 Senate St	63,977	2
In Service	E4081	8361 Wise Road	136,646	4
In Service	E4517	8427 Corporal St	5,032	4
In Service	E4900	8602 Jessup Road	14,830	1
In Service	E4902	8599 Jessup Road	15,388	1
In Service	E5165	8242 Black Hawk Road	32,390	3
In Service	E5183	8198 Black Hawk Road	12,305	3
In Service	E5185	8784 32ndStt	161,689	1
In Service	E5265	8283 Hoadley Road	24,695	3
In Service	E5707	8779 Magnolia Road	23,167	4
In Service	310	6859 Civil Rd	15,405	3
Out of Service	450	7118 Caisson St	26,063	3
In Service	450	7118 Caisson St	26,063	3
In Service	450	7118 Caisson St	26,063	3
In Service	E2170	9149 20th St	13,841	4
In Service	E1890	8890 Wise Rd	71,292	4
In Service	E1890	8890 Wise Rd	71,292	4



In Service	E1890	8890 Wise Rd	71,292	4
In Service	E1890	8890 Wise Rd	71,292	4
In Service	E2160	9061 19 <sup>th</sup> St	12,501	4
Out of Service	E2168	9123 20th St	13,841	4
In Service	E2180	8313 Cadwalder Road	12,987	3
In Service	E2184	8293 Cadwalder Road	12,440	3
In Service	E2186	8290 Cadwalder Road	12,440	3
In Service	E2188	8270 Cadwalder Road	12,461	1
In Service	E2196	9101 21st St	13,784	4
In Service	E2198	9127 21st Street	13,882	4
In Service	E3100	8399 Ricketts Point Road	92,936	1
In Service	E3570	8924 Beach Point Road	13,498	4
In Service	E3570	8924 Beach Point Road	13,498	4
In Service	E3570	8924 Beach Point Road	13,498	4
In Service	E3570	8924 Beach Point Road	13,498	4
In Service	E3570	8924 Beach Point Road	13,498	4
In Service	E4650	8611 MassawomeckLoop	25,390	4
In Service	E5026	8199 Blackhawk Rd	20,536	4
In Service	E5057	8813 Magnolia Road	26,124	2
In Service	E5058	8809 Magnolia Road	25,975	2
In Service	E5060	8799Magnolia Road	26,463	2
In Service	E5061	8793 Magnolia Road	26,209	2
In Service	E5179	8222 Black Hawk Road	43,078	3
In Service	E5179	8222 Black Hawk Road	43,078	3
In Service	E5185	8784 32nd Str	161,689	4
In Service	E5265	8283 Hoadley Road	24,695	4
In Service	E5654	8175 Hanlon Road	2,480	3
In Service	E5654	8175 Hanlon Road	2,480	4
In Service	E5654	8175 Hanlon Road	2,480	4
In Service	E5654	8175 Hanlon Road	2,480	4
In Service	E5703	8787 Magnolia Road	41,628	4
In Service	E5911	8607 Lagoon Road	27,159	4
In Service	E5912	8599 Lagoon Road	26,847	4
In Service	394	6925 Mauchly Road	57,176	1
In Service	394	6925 Mauchly Road	57,176	1
In Service	448	6500 Surveillance Range Road	4,840	4
In Service	E2166	9095 20th Street	14,232	4
In Service	3558	6437 Adle Road	18,167	4
In Service	E5910	8615 Lagoon Road	26,847	4
In Service	E5915	8577 Lagoon Road	24,116	4

**TECHNICAL EXHIBIT 2L**  
**FSP: FIRE PUMP**  
**Table 2-16. Fire Pumps ITM Tasks**

Frequency	Component	Tasks
Monthly	1. Pump House	<ol style="list-style-type: none"> <li>1. Inspect for proper condition, ventilation, and heating.</li> <li>2. Check packing leakage for proper water lubrication.</li> <li>3. Verify proper drainage.</li> </ol>
	2. Control Valves and Isolation Valves (without seals, locks, or electric supervision)	<ol style="list-style-type: none"> <li>1. Verify proper valve position.</li> </ol>
	3. Pressure Gauges	<ol style="list-style-type: none"> <li>1. Check reading and verify gauge operability.</li> </ol>
	4. Controllers	<ol style="list-style-type: none"> <li>1. Verify that automatic controllers are in the automatic (AUTO) setting.</li> <li>2. Inspect electric connections.</li> <li>3. Operate manual and automatic starting methods.</li> <li>4. Resolve all trouble indications.</li> </ol>
	5. Batteries	<ol style="list-style-type: none"> <li>1. Verify proper charge. (Replace batteries in accordance with the driver manufacturer's recommendations or when the full recharged battery voltage or current falls below either the driver or battery's manufacturer's recommendations.)</li> </ol>
	6. Pumps	<ol style="list-style-type: none"> <li>1. Start and churn to verify operability. (Where equipment permits, allow water to flow back to the source.) [Operate electric pumps for 10 minutes and operate engine-driven pumps for 30 minutes.]</li> <li>2. Verify operation of relief valves.</li> <li>3. Verify fuel level (for engine-driven pumps).</li> <li>4. Inspect exhaust system for leaks (for engine-driven pumps).</li> <li>5. For engine driven pumps, start again using second battery set and churn to verify operability. (Where equipment permits, allow water to flow back to the source.)</li> </ol>
Annually	1. Control Valves (sealed, locked, and electrically supervised)	<ol style="list-style-type: none"> <li>1. Verify proper valve position.</li> </ol>
Semi-Annually	1. Fuel (engine-driven pumps)	<ol style="list-style-type: none"> <li>1. Sample fuel to verify quality.</li> </ol>
2 Years	1. Control Valves	<ol style="list-style-type: none"> <li>1. Operate valve through entire travel to verify function.</li> <li>2. Lubricate valves to ensure operability.</li> <li>3. Verify that valve supervisory switches detect a change in valve position.</li> </ol>

	2. Controllers	<ol style="list-style-type: none"> <li>1. Calibrate pressure switches.</li> <li>2. Exercise circuit breakers and switches to verify operability.</li> <li>3. Inspect fuses.</li> </ol>
	3. Pumps	<ol style="list-style-type: none"> <li>1. Check coupling alignment to ensure that the shaft is aligned.</li> <li>2. Check pump shaft end play.</li> <li>3. Lubricate bearings.</li> <li>4. Lubricate couplings.</li> <li>5. Lubricate right-angle drives.</li> </ol>
	4. Relief Valves	<ol style="list-style-type: none"> <li>1. Calibrate valves.</li> </ol>
	5. Emergency Power Supply	<ol style="list-style-type: none"> <li>1. Test to verify availability and capacity for pump motor.</li> </ol>
5 Years	1. Pump	<ol style="list-style-type: none"> <li>1. Conduct flow test to verify pump output. Test may be through a flow meter returning the water to a storage reservoir or through the test header. Recirculation of water to the suction piping is not permitted. In a multi-pump installation, each pump may be tested separately at not less than 100 percent design capacity for 30 minutes.</li> <li>2. Verify that the results are within acceptable limits or identify corrective measures.</li> </ol>
	2. Gauges and Flow Meters	<ol style="list-style-type: none"> <li>1. Calibrate or replace flow meter prior to fire pump flow test.</li> </ol>

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	ALC 207	207 North Avenue	387,516	1
In Service	394	6925 Mauchly Street	57,176	1
In Service	450	7118 Caisson Street	25,317	1
In Service	459	7101 Mulberry Point Road	69,469	1
In Service	717	6860 Shell Street	5,824	1
In Service	737D	6647 Valor Road	4,324	1
In Service	1043	6848 Cruise Road	822	1
In Service	1043	6848 Cruise Road	822	1
In Service	1120B	7160 Spesutie Island Road	6,000	2
In Service	1120C	7158 Spesutie Island Road	6,000	2
In Service	2202	6617 Aberdeen Blvd	151,403	1
In Service	3090	6690 Raritan Avenue	98,860	1
In Service	5046	6544 Havre De Grace Street	92,486	2
In Service	6004	6625 Surveillance Loop	26,479	1
In Service	6004	6625 Surveillance Loop	26,479	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6011	6540 Boothby Hill Ave	80,571	1
In Service	6240	6240 Guardian Gateway	59,977	1

In Service	3660A	6462 Hancock Road	2,628	4
In Service	E1570	8977 Sibert Road	47,027	2
In Service	E2800	8228 Scully Rd	77,298	1
In Service	E2901	8907 North Kings Creek Rd	39,180	1
In Service	E2901	8907 North Kings Creek Rd	39,180	1
In Service	E3150	8938 North Kings Creek Road	188,266	1
In Service	E3400	8510 Ricketts Point Rd	171,899	1
In Service	E3401	8490 Ricketts Point Rd	41,559	1
In Service	E3835	8920 Guard Street	32,110	1
In Service	E3844	8921 Guard Street	6,020	1
In Service	E4081	8361 Wise Road	136,646	4
In Service	E4081	8361 Wise Road	136,646	4
In Service	E6705	9256 Lauderick Creek Rd	373	4
In Service	E7153	8814 Ricketts Point Rd	6,460	4
In Service	G8003	5 Lace Rd, Graces Quarters	6,408	1

**TECHNICAL EXHIBIT 2M**  
**FSP: FIRE ALARM SYSTEMS ADDRESSABLE**  
**Table 2-1. Fire Detection and Alarm System ITM Tasks**

Frequency	Component	Tasks
Monthly	1. Control Panels and Annunciator Equipment (unmonitored only)	1. Inspect panel condition (connections, fuses, light-emitting diodes [LEDs]). 2. Resolve any trouble indications.
Annually	1. Control Panel and Annunciator Equipment (monitored)	1. Test to verify proper receipt of alarm, supervisory, and trouble signals (inputs, one of each type) and operation of notification appliances and auxiliary functions (outputs, one of each type). 2. Verify that all lamps and LEDs are illuminated. 3. Load test backup batteries using a meter (when provided). 4. Verify condition of power supplies and batteries. 5. Resolve any trouble indications.
	2. Remote Power Supplies and Notification Appliance Circuit Power Extenders	1. Verify that all lamps and LEDs are illuminated. 2. Load test backup batteries using a meter (when provided). 3. Verify condition of power supplies and batteries.

	3. Initiating Devices: a. Manual Fire Alarm Stations	1. Verify station is accessible (visual).
	b. Radiant Energy- Sensing Detectors (Optical Detectors)	1. If used for releasing service, inhibit releasing function. 2. Test to verify alarm initiation and receipt. 3. Verify that no facility change affects performance. 4. Verify alignment of the positioning markings at all adjustment locations. 5. If used for releasing service, configure system for automatic operation. 6. If used for releasing service, restore to releasing service.
	c. Gas Detectors	1. Test to verify alarm initiation and receipt. 2. Verify no facility change that affects performance.
	d. Carbon Monoxide Detectors	1. Test to verify alarm initiation and receipt. 2. Verify that no facility change affects performance.
	4. Notification Appliances and Voice Communication (telephone, speakers, horns, and strobe lights)	1. Test to verify operability.
	5. Digital Alarm Transmitters and Receivers	1. Test to verify operability.
	6. Radio Alarm Transmitters and Receivers	1. Test to verify operability.
2 Years	1. Initiating Devices: a. Manual Fire Alarm Stations	1. Operate to verify alarm receipt.
	b. Heat Detectors (restorable) (Remove devices not required by UFC 3-600-01.)	1. Test with a heat source to verify alarm initiating and receipt. 2. Verify that no facility change affects performance.
	c. Smoke Detectors (single-station detectors, system detectors, and air sampling detectors) (Remove devices not required by UFC 3-600-01 or other directives.)	1. Test with manufacturer-approved smoke simulant to verify smoke entry and alarm initiation and receipt. 2. Verify that no facility change affects performance.

	d. Supervisory Devices (low air pressure, temperature, water level)	1. Test to verify initiation and receipt of supervisory alarm.
	2. Fire Suppression System Releasing and Abort Stations	1. Inhibit releasing function 2. Test to verify proper operation and system response. 3. Configure system for automatic operation. 4. Restore releasing function.
5 Years	1. Smoke Detectors (Remove devices not required by UFC 3-600-01.)	1. Test detector sensitivity to ensure that the detector has remained within its listed and marked sensitivity range (or 4 percent obscuration light gray smoke, if not marked).
10 years	1. Carbon Monoxide Detectors	1. Replace detectors.
	2. Radiant Energy- Sensing Detectors (Optical Detectors)	1. Verify manufacturer's service life for detection elements. UV detection element's normal service life is 10 years; others vary by manufacturer. 2. Replace detectors which have exceeded manufacturer's recommended service life for detection elements.
20 years	1. Smoke Detectors (single-station detectors, and system detectors)	1. Replace detectors.
	2. Air Sampling Smoke Detectors	1. Replace detection element.
	3. Control Panel and Annunciator Equipment	1. Verify manufacturer's service life for control elements. 2. Verify manufacturer has continued technical and parts support for the specific model. 3. Replace control equipment that have exceeded manufacturer's recommended service life limits or if the manufacturer has ceased to provided technical and parts support.
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: <ul style="list-style-type: none"> <li>a. Detectors unblocked and uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> </ul> 2. Exercise evacuation notification appliances for audibility, clarity, and visibility.

LOCATION:

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
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In Service	ALC 101/ 102 / 103	101 Glenmore Drive	64,091	1
In Service	ALC 104	104 Glenmore Drive	1,260	2
In Service	ALC 106	106 Glenmore Drive	19,910	2
Out of Service	ALC 107	107 Glenmore Drive	7,936	1
In Service	ALC 203	203 Glenmore Drive	122,209	1
In Service	ALC 202 / 204 / 205	205 Floral Drive	514,657	1
In Service	ALC 207 FIRE SYS	207 North Avenue	387,516	1
In Service	ALC 207 GAS SYS	207 North Avenue	387,516	1
In Service	ALC 207 WATER SYS	207 North Avenue	387,516	1
In Service	ALC 504	505 Aurora Drive	11,580	1
In Service	ALC 504	505 Aurora Drive	11,580	1
In Service	ALC 507	507 Aurora Drive	16,738	2
In Service	ALC 507	507 Aurora Drive	16,738	2
In Service	ALC 403	403 Kuester Road	5,805	1
In Service	ALC 403	403 Kuester Road	5,805	1
In Service	1052	6226 Military St	4,876	1
In Service	1052I	6226 Military St	300	4
In Service	1060	6870 Cruise Rd	42,575	1
In Service	1068	6884 Cruise Rd	4,813	4
In Service	1099	6918 Airbase Loop Rd	10,500	2
In Service	1100D	7120 Spesutie Island Road	4,800	2
In Service	1100F	7116 Spesutie Island Road	16,598	2
In Service	1103A	7122 Spesutie Island Road	2,000	2
In Service	1103C	7132 Spesutie Island Road	1,205	4
In Service	1103D	7128 Spesutie Island Road	1,886	4
In Service	1114	7166 Sacrifice Rd	10,526	2
In Service	1116A	6095 Morgan Road	9,083	2
In Service	1116B	6097 Morgan Road	3,850	2
In Service	1120B	7160 Spesutie Island Road	6,000	2
In Service	1145C	6205 Way Place	300	2
In Service	1185	7460 Tumble Land	3,625	2
In Service	1186	7466 Tumble Land	7,373	2
In Service	1193	7431 Spesutie Island Road	4,500	2
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	2200	6553 Aberdeen Blvd	22,672	1
In Service	2202	6617 Aberdeen Blvd	151,403	1
In Service	2207	6364 Bayonet Rd	74,389	4
In Service	2330	6507 Aberdeen Blvd	3,624	4
In Service	241	6893 Magazine Road	4,970	3
In Service	242	6898 Magazine Road	4,970	3
In Service	243	6904 Magazine Road	4,970	3
In Service	246	6920 Magazine Road	5,149	3

In Service	2477	6467 Operations Ave	2,742	3
In Service	2485	6441 Rock Island Street	43,020	1
In Service	2501	6455 Machine St	82,998	1
In Service	2501T	2501T McCreary Street		4
In Service	2503	6431 Advanced Tactics Rd	15,218	4
In Service	2521	6430 Bayside Drive	12,897	1
In Service	2522	6448 Bayside Drive	19,599	1
In Service	262	6761 Trench Warfare Entrance	4,784	2
In Service	263	6765 Trench Warfare Range	4,784	2
In Service	2658	6283 Demby Dr	8,425	4
In Service	2658C	Trench Warfare Road		4
In Service	30	6817 Plumb Point Dr	58,085	1
In Service	3071	6662 Gunner Cir	45,977	1
Out of Service	3072	6678 Gunner Cir	42,188	1
In Service	3073	6648 Gunner Cir	30,403	1
In Service	3074	6662 Raritan Ave	54,282	2
In Service	3090	6690 Raritan Ave	98,860	1
In Service	311	6851 Civil Rd	8,144	1
In Service	3144	6623 Raritan Avenue	47,542	2
In Service	3147	6635 Raritan Avenue	31,291	1
In Service	3148	6407 Bayonet Rd	28,371	2
In Service	315	6350 Gillon St	78,364	1
In Service	319	6845 Colleran Rd	19,512	3
In Service	320	6367 Johnson Rd	41,552	2
In Service	321	6375 Johnson Rd	35,806	2
In Service	3245	6554 Aberdeen Blvd	18,444	4
In Service	328	6321 Gillon St	90,015	1
In Service	3330	6490 Raritan Ave	26,637	4
In Service	338	6910 Civil Rd	45,291	1
In Service	349	6875 Recoil Ave	4,626	3
In Service	352	6824 Main Front Road	6,561	2
In Service	358	6850 Lanyard Rd	13,5	2
In Service	3604	6452 Adle Rd	5,160	4
In Service	366	6915 Lanyard Road	4,412	1
In Service	367	608 Mauchly Street	23,481	2
In Service	372	680 Lanyard Road	4,207	3
In Service	384C	6946 Main Front Road	17,405	1
In Service	384G	6950 Main Front Road	3,408	4
In Service	390	6931 Civil Rd	58,025	1
In Service	392	6896 Mauchly Street	31,217	2
In Service	393	6941 Magazine Road	15,3653	2
In Service	4019	6703 Boothby Hill Avenue	9,867	4
In Service	4118	6621 Boothby Hill Avenue	43,504	2



In Service	4119	6630 Rodman Road	14,052	2
In Service	4120	6637 Boothby Hill Avenue	43,550	2
In Service	4120	6637 Boothby Hill Avenue	43,550	2
In Service	4210	6470 Bayonet Rd	22,922	2
In Service	4211	6472 Bayonet Rd	22,915	2
In Service	4213	6586 Rodman Rd	22,915	2
In Service	4219	6558 Rodman Rd	15,246	3
In Service	4302	6531 Boothby Hill Avenue	11,186	2
In Service	4303	6525 Boothby Hill Avenue	41,904	2
In Service	4305	6488 Rodman Rd	55,869	2
In Service	4310	6515 Integrity Ct	14,254	3
In Service	4316	6466 Rodman Rd	12,053	4
In Service	433	7102 Caisson St	7,283	3
In Service	434	7101 Velocity St	11,999	3
In Service	436	7077 Velocity St	30,142	2
In Service	4402	6468 Integrity Ct	37,900	2
In Service	45	6288 6817 Plumb Point Dr	12,199	4
In Service	4503	6482 Springfield Street	21,266	2
In Service	4506	6444 Rodman Road	7,549	2
In Service	453	7124 Velocity St	8,747	3
In Service	459A	46388 Intelligence St	912	2
In Service	4603	6340 Rodman Rd	35,568	2
In Service	4725A	6257 Bomb Loop	3,554	2
In Service	5100	6631 Cyber St	109,607	1
In Service	5116	6597 Reconnaissance St	29,192	4
In Service	517	7135 Mulberry Pont Road	10,864	2
In Service	520	7152 Velocity St	21,202	2
In Service	5600	6684 Ruggles Road	10,074	4
In Service	5701	6244 Visitors Ln	2,000	2
In Service	5703	6258 Visitors Ln	600	4
In Service	6000	6555 Surveillance Loop	18,206	1
In Service	6001	6565 Surveillance Loop	248,404	1
In Service	6002	6585 Surveillance Loop	276,276	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6011	6540 Boothby Hill Ave	80,571	1

In Service	6160	6160 Guardian Gateway	21,808	N/A
In Service	6165	6165 Guardian Gateway	51,120	N/A
In Service	6170	6170 Guardian Gateway	25,160	N/A
In Service	6175	6175 Guardian Gateway	54,120	N/A
In Service	6180	6180 Guardian Gateway	29,410	N/A
In Service	6190	6190 Guardian Gateway	72,605	N/A
In Service	6200	6200 Guardian Gateway	72,605	N/A
In Service	6210	6210 Guardian Gateway	72,605	N/A
In Service	6240	6240 Guardian Gateway	59,977	N/A
In Service	6245	6245 Guardian Gateway	31,280	N/A
In Service	6260	6260 Guardian Gateway	74,321	N/A
In Service	6280	6280 Guardian Gateway	74,321	N/A
In Service	717	6860 Shell Street	5,824	1
In Service	736	6625 Valor Rd	3,444	4
In Service	906A	6616 Fords Farm Road	4,800	4
In Service	906C	6618 Fords Farm Road	6,960	2
In Service	922 E2	7545 Live Fire Rd	745	2
In Service	922 E3	7541 Live Fire Rd	780	2
In Service	922 E5	7630 Live Fire Rd	900	2
In Service	936	7447 Live Fire Rd	2,000	3
In Service	937	7458 Live Fire Rd	2,000	2
In Service	E3320	8481 Ricketts Point Road	6,793	1
In Service	E3330 (formerly E3331)	8483 Ricketts Point Road	50,814	4
In Service	E3549	8567 Ricketts Point Road	150,904	4
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	1170	7403 Locust Point Avenue	600	2
In Service	1171	7401 Locust Point Avenue	2,412	2
In Service	363	6901 Lanyard Road	10,638	3
In Service	E1042	9099 Lauderick Creek Road	5,233	3
In Service	E1043	9105 Lauderick Creek Road	5,245	3
In Service	E1260	8063 Selenodesy Rd	3,192	4
In Service	E1407	8868 Fissile St	2,276	4
In Service	E1457	9026 Ricketts Point Road	9,781	3
In Service	E1502	8814 Ricketts Road	6,408	2
In Service	E1570	8977 Sibert Road	47,027	2
In Service	E2100	8988 Willoughby Rd	66,901	1
In Service	E2410	8391 Dirk Dr	2,783	2
In Service	E2433	8428 CBRNE Dr	9,204	4
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1

In Service	E2901	8907 N Kings Cheek Road	39,180	1
In Service	E3104	8911 South Kings Creek Rd	4,821	4
In Service	E3326	8867 Master St	18,834	4
In Service	E3330	8505 Ricketts Point Road	44,352	1
In Service	E3332	8489 Ricketts Point Road	4,141	1
In Service	E3400	8510 Ricketts Point Rd	176,451	4
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3462	8540 Otto Road	8,554	1
In Service	E3524	8528 Senate St	4,941	2
In Service	E3526	8560 Ricketts Point Road	2,880	4
In Service	E3548	8559 Ricketts Point Rd	5,633	4
In Service	E3551	8557 Ricketts Point Rd	5,701	4
In Service	E3560	8912 Beach Point Road	2,160	1
In Service	E3832	8897 Guard St	14,146	1
In Service	E3844	8921 Guard St	6,020	1
In Service	E3857	9032 Beach Point Road	2,087	3
In Service	E3942	9041 Medal St	3,420	4
In Service	E3947	9031 Medal St	1,875	4
In Service	E4010	8229 Wise Road	8,147	2
In Service	E4081	8361 Wise Road	136,646	4
In Service	E4410	8719 Lietzan Rd	17,848	4
In Service	E4210	8419 Otto Road	29,816	3
In Service	E4215	8456 Brigade St	42,471	2
In Service	E4223	8440 Brigade St	9,645	4
In Service	E4224	8403 Wise Road	4,878	1
In Service	E4225	8424 Otto Road	14,015	4
In Service	E4228	8739 Glory St	5,173	4
In Service	E4230	8775 Glory St	41,124	4
In Service	E4305	8451 Nike Rd	77,367	4
In Service	E4445	8375 Gasnnon Rd	2,369	4
In Service	E4470	8376 Gasnnon Rd	17,389	3
In Service	E4480	8671 Glory St	18,855	3
In Service	E4517	8427 Corporal St	5,032	4
In Service	E4525	8679 Corporal St	10,046	2
In Service	E4586	8444 Corporal St	2,571	4
In Service	E4620	8370 Brigade St	13,928	2
In Service	E4655	8603 Massawomeck Loop	2,760	4
In Service	E4900	8602 Jessup Road	14,830	4
In Service	E4902	8599 Jessup Road	15,338	4
In Service	E5908	8104 Hoadley Road	2,100	4
In Service	E5027	8193 Blackhawk Road	23,490	3
In Service	E5106	8842 Feming Road	18,621	4

In Service	E5141	8789 Fleming Road	3,134	4
In Service	E5236	8284 14th Street	13,845	2
In Service	E5803	8646 40th Street	6,544	4
In Service	E5830	8587 Quinn Street	36,980	1
In Service	E5840	8640 42nd Street	16,602	4
In Service	E6700	9258 Lauderick Creek Rd	9,617	1
In Service	E6810	9321 Belardi Road	15,967	4
In Service	E6811	9335 Belardi Road	7,971	4
In Service	E5180	8218 Hoadley Rd	14,741	4
In Service	G8003	5 Lace Rd, Graces Quarters	6,408	4
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	1132A	7358 Locust Point Avenue	1,656	4
In Service	394	6925 Mauchley Street	57,176	1
In Service	394	6925 Mauchley Street	57,176	1
In Service	394	6925 Mauchley Street	57,176	1
In Service	6008	6575 Jayhawk Road	79,875	1
In Service	4727	6321 Rodman Road	97,658	2
In Service	6004	6625 Surveillance Loop	26,479	1
Out of Service	237	6901 Magazine Road	4,994	3
In Service	2484	6460 Harford	8,313	2
In Service	2601	6381 Aberdeen Blvd	17,842	3
In Service	309A	6917 Civil Rd	2,998	4
In Service	359	6851 Lanyard Road	20,017	2
In Service	E2330	9142 24th Street	4,339	4

**TECHNICAL EXHIBIT 2N**  
**FSP: Fire Alarm System Non-Addressable**  
**Fire Detection and Alarm System ITM Tasks**

Frequency	Component	Tasks
Monthly	1. Control Panels and Annunciator Equipment (unmonitored only)	1. Inspect panel condition (connections, fuses, light-emitting diodes [LEDs]). 2. Resolve any trouble indications.
Annually	1. Control Panel and Annunciator Equipment (monitored)	1. Test to verify proper receipt of alarm, supervisory, and trouble signals (inputs, one of each type) and operation of notification appliances and auxiliary functions (outputs, one of each type). 2. Verify that all lamps and LEDs are illuminated. 3. Load test backup batteries using a meter (when provided). 4. Verify condition of power supplies and batteries. 5. Resolve any trouble indications.

	2. Remote Power Supplies and Notification Appliance Circuit Power Extenders	<ol style="list-style-type: none"> <li>1. Verify that all lamps and LEDs are illuminated.</li> <li>2. Load test backup batteries using a meter (when provided).</li> <li>3. Verify condition of power supplies and batteries.</li> </ol>
	3. Initiating Devices: a. Manual Fire Alarm Stations	<ol style="list-style-type: none"> <li>1. Verify station is accessible (visual).</li> </ol>
	b. Radiant Energy- Sensing Detectors (Optical Detectors)	<ol style="list-style-type: none"> <li>1. If used for releasing service, inhibit releasing function.</li> <li>2. Test to verify alarm initiation and receipt.</li> <li>3. Verify that no facility change affects performance.</li> <li>4. Verify alignment of the positioning markings at all adjustment locations.</li> <li>5. If used for releasing service, configure system for automatic operation.</li> <li>6. If used for releasing service, restore to releasing service.</li> </ol>
	c. Gas Detectors	<ol style="list-style-type: none"> <li>1. Test to verify alarm initiation and receipt.</li> <li>2. Verify no facility change that affects performance.</li> </ol>
	d. Carbon Monoxide Detectors	<ol style="list-style-type: none"> <li>1. Test to verify alarm initiation and receipt.</li> <li>2. Verify that no facility change affects performance.</li> </ol>
	4. Notification Appliances and Voice Communication (telephone, speakers, horns, and strobe lights)	<ol style="list-style-type: none"> <li>1. Test to verify operability.</li> </ol>
	5. Digital Alarm Transmitters and Receivers	<ol style="list-style-type: none"> <li>1. Test to verify operability.</li> </ol>
	6. Radio Alarm Transmitters and Receivers	<ol style="list-style-type: none"> <li>1. Test to verify operability.</li> </ol>
2 Years	1. Initiating Devices: a. Manual Fire Alarm Stations	<ol style="list-style-type: none"> <li>1. Operate to verify alarm receipt.</li> </ol>
	b. Heat Detectors (restorable) (Remove devices not required by UFC 3-600-01.)	<ol style="list-style-type: none"> <li>1. Test with a heat source to verify alarm initiating and receipt.</li> <li>2. Verify that no facility change affects performance.</li> </ol>

	c. Smoke Detectors (single-station detectors, system detectors, and air sampling detectors) (Remove devices not required by UFC 3-600-01 or other directives.)	<ol style="list-style-type: none"> <li>1. Test with manufacturer-approved smoke simulant to verify smoke entry and alarm initiation and receipt.</li> <li>2. Verify that no facility change affects performance.</li> </ol>
	d. Supervisory Devices (low air pressure, temperature, water level)	<ol style="list-style-type: none"> <li>1. Test to verify initiation and receipt of supervisory alarm.</li> </ol>
	2. Fire Suppression System Releasing and Abort Stations	<ol style="list-style-type: none"> <li>1. Inhibit releasing function</li> <li>2. Test to verify proper operation and system response.</li> <li>3. Configure system for automatic operation.</li> <li>4. Restore releasing function.</li> </ol>
5 Years	1. Smoke Detectors (Remove devices not required by UFC 3-600-01.)	<ol style="list-style-type: none"> <li>1. Test detector sensitivity to ensure that the detector has remained within its listed and marked sensitivity range (or 4 percent obscuration light gray smoke, if not marked).</li> </ol>
10 years	1. Carbon Monoxide Detectors	<ol style="list-style-type: none"> <li>1. Replace detectors.</li> </ol>
	2. Radiant Energy- Sensing Detectors (Optical Detectors)	<ol style="list-style-type: none"> <li>1. Verify manufacturer's service life for detection elements. UV detection element's normal service life is 10 years; others vary by manufacturer.</li> <li>2. Replace detectors which have exceeded manufacturer's recommended service life for detection elements.</li> </ol>
20 years	1. Smoke Detectors (single-station detectors, and system detectors)	<ol style="list-style-type: none"> <li>1. Replace detectors.</li> </ol>
	2. Air Sampling Smoke Detectors	<ol style="list-style-type: none"> <li>1. Replace detection element.</li> </ol>
	3. Control Panel and Annunciator Equipment	<ol style="list-style-type: none"> <li>1. Verify manufacturer's service life for control elements.</li> <li>2. Verify manufacturer has continued technical and parts support for the specific model.</li> <li>3. Replace control equipment that have exceeded manufacturer's recommended service life limits or if the manufacturer has ceased to provided technical and parts support.</li> </ol>

As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: <ul style="list-style-type: none"> <li>a. Detectors unblocked and uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> </ul> 2. Exercise evacuation notification appliances for audibility, clarity, and visibility.
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**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	ALC 106	106 Glenmore Drive	19,910	1
In Service	ALC 106	106 Glenmore Drive	19,910	1
In Service	ALC 108	108 Glenmore Drive	2,110	3
In Service	ALC 112	112 Glenmore Drive	8,738	1
In Service	ALC 203	203 Glenmore Drive	122,209	1
In Service	ALC 204	204 Floral Drive	514,657	1
In Service	ALC 404	404 Kuester Road	3,087	1
In Service	ALC 406	406 Kuester Road	2,156	1
In Service	ALC 500	500 Aurora Drive	53,009	1
In Service	ALC 505	505 Aurora Road	3,789	4
In Service	ALC 601	601 Chance Road	46,139	3
In Service	3409	3409 Springfield St	1,509	4
In Service	E1491-1T	9293 Watson Creek Rd	500	4
In Service	430	6997 Lanyard Road	1,569	4
In Service	1046	6932 Menne Road	3,045	2
In Service	1055	6200 Military St	1,000	3
In Service	1058A	1058A Military St	288	4
In Service	1059	6878 Cruise Rd	3,680	1
In Service	1089A	6917 Airbase Loop	6,183	2
In Service	1105	6096 Morgan Road	8,010	2
In Service	1114T	7166 Sacrifice Rd	400	4
In Service	1121	6091 Morgan Road	3,773	2
In Service	1134	7361 Locust Point Avenue	2,856	2
In Service	1134B	7334 Locust Point Road	6,000	2
In Service	2006	6709 Aberdeen Blvd	2,988	4
In Service	2031	6666 Founders St	2,520	4
In Service	2184	6627 Aerospace Rd	14,200	4
In Service	E2200	9153 21st Street	11,304	4
In Service	E2200	9153 21st Street	11,304	4
In Service	2308	6538 Rock Island Street	8,321	4
In Service	2333	6516 Rock Island Street	8,391	2
In Service	2379	6353 Harford Street	9,992	2

In Service	238	607 Magazine Road	5,205	4
In Service	239	6913 Magazine Road		4
In Service	2401	6487 Aberdeen Blvd	63,310	2
In Service	2402	6485 Operations Ave	14,958	4
In Service	2402	6485 Operations Ave	14,958	4
In Service	248	6907 Mauchly Street	9,203	3
In Service	2514	6385 Harford Blvd	8,604	2
In Service	269D	6780 Trench Warfare Entrance Rd	3,432	2
In Service	2727	6321 Demby Dr	5,494	4
In Service	305	6836 Civil Rd	55,882	1
In Service	3554	6435 Adle Road	18,655	3
In Service	3556	6421 Adle Road	9,000	2
In Service	3660	6456 Hancock Dr	50,602	4
In Service	3660	6456 Hancock Dr	50,602	4
In Service	368W	6834 Main Front Road	6,201	4
In Service	381V	6864 Main Front Road	1,224	4
In Service	382V	6886 Main Front Road	1,224	1
In Service	400	6943 Colleran Road	78,547	1
In Service	423	6514 Surveillance Range Road	8,991	4
Out of Service	423	6514 Surveillance Range Road	8,991	4
In Service	4312	6496 Integrity Ct	2,654	3
In Service	456	6434 Intelligence St	48,499	4
In Service	4600	6300 Rodman Rd6300 Rodman Rd	332,167	1
In Service	4600	6300 Rodman Rd	332,167	1
In Service	460A	6335 Intelligence St	1,152	2
In Service	462A	6335 Intelligence St	4,883	4
In Service	5015	6503 Havre de Grace Street	10,322	4
In Service	5016	6573 Havre de Grace Street	94,131	2
In Service	5046	6544 Havre de Grace Street	92,486	4
In Service	5110	6638 Pistol Road	11,293	1
In Service	526A	7092 Mulberry Point Road	7,200	2
In Service	5608A	6635 Ruggles Road	6,466	4
In Service	5608B	6635 Ruggles Rd	4,587	4
In Service	6005	6630 Surveillance Loop	48,058	1
In Service	6240	6240 Guardian Gateway	59,977	4
In Service	640B	7370 Antiaircraft Loop	900	4
In Service	691	7089 Plate Range Road	1,848	3
In Service	699	6619 Surveillance Range Road	12,028	1
In Service	740D	7191 Terrain Rd	400	1
In Service	860	7114 Retort Rd	7,797	2
In Service	733A	6617 Valor Rd	6,871	1
In Service	743A	6617 Valor Rd	1,946	2
In Service	4308	6522 Rodman Road	1,642	3



In Service	4304	6504 Rodman Rd	41,904	2
In Service	E1458	9022 Ricketts Point Rd	2,400	3
In Service	E1474A	9114 Watson Creek Rd	469	4
In Service	E1503	8812 Ricketts Point	6,210	2
In Service	E1645	8062 Lull Road	3,591	2
In Service	E1675	8072 Wise Road	34,821	2
In Service	E1677	8078 Wise Road	12,552	2
In Service	E1901	8116 Scully Road	9,636	1
In Service	E1902	8136 Scully Road	12,054	1
In Service	E1947	8939 Schaefer Road	12,719	2
In Service	E2162	068 19 <sup>Th</sup> St	12,477	4
In Service	E2390	9173 27th Street	11,474	2
In Service	E2650	9180 Willoughby Rd	2,236	4
In Service	E3000	8399 Ricketts Point Rd	302	4
In Service	E3081	8937 North Kings Road	72,209	1
In Service	E3101	8915 South Kings Creek Rd	4,344	4
In Service	E3103	8913 North Kings Road	3,398	4
In Service	E3106	8911 North King Road	3,334	4
In Service	E3150	8938 North Kings Road	188,266	1
In Service	E3160	8956 North Kings Road	25,088	1
In Service	E3300	8467 Ricketts Point Road	44,352	4
In Service	E3375	8891 Master St	2,520	4
In Service	E3552	8888 Beach Point Road	2,584	4
In Service	E3580	8958 Beach Point Road	8226	1
In Service	E3607	8903 Beach Point Road	2,500	3
In Service	E3612	8917 Beach Point Road	12,106	2
In Service	E3726	8975 Master St	7,320	1
In Service	E3830	8913 Guard St	4,800	4
In Service	E3835	8920 Guard St	32,110	1
In Service	E3837	8909 Guard St	2,400	1
In Service	E3931	9000 Medal St	3,200	4
In Service	E3934	9007 Medal St	5,153	4
In Service	E3938	9015 Medal St	2,000	4
In Service	E3941	9018 Medal St	3,974	4
In Service	E4081	8361 Wise Road	136,646	4
In Service	E4221	8446 Brigade St	4,867	4
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4306	8462 Otto Road	5,766	4
In Service	E4420	8715 Glory St	15,623	4
In Service	E4430	8705 Lietzan Road	16,667	4
In Service	E4435	8702 Lietzan Road	19,259	4
In Service	E4455	8688 Lietzan Road	2,369	4
In Service	E4460	8685 Glory St	17,606	3

In Service	E4465	8374 Gannon Rd	18,182	3
In Service	E4475	8378 Gannon Rd	17,786	3
In Service	E4506	8435 Billet St	3,704	4
In Service	E4524	8434 Systems Rd	9,524	4
In Service	E4526	8675 Corporal St	5,488	4
In Service	E4527	8430 Gannon Rd	7,869	4
In Service	E4535	8450 Corporal St	3,600	4
In Service	E4536	8448 Corporal St	3,808	4
In Service	E4585	8435 Hoadley Road	25,917	1
In Service	E4810	8385 Brigade St	5,361	2
In Service	E5002	8213 Hoadley Road	10,000	4
In Service	E5100	8820 Fleming Road	29,852	1
In Service	E5101	8222 Hoadley Road	69,674	1
In Service	E5183	8198 Black Hawk Road	12,305	4
In Service	E5232	8792 Fleming Road	7,348	4
In Service	E5234	8270 14th Street	15,889	4
In Service	E5240	8247 Hoadley Road	7,670	2
In Service	E5311	8229 Hanlon Road		4
In Service	E5354	8226 Hanlon Road	9,264	3
In Service	E5427	8272 Laus St	7,372	3
In Service	E5560	8224 35th Street	9,873	1
In Service	E5641	8128 Alley Road	4,731	4
In Service	E7239	8468 Maxwell Point Rd	240	4
In Service	335	6343 Gillon St	16,969	2
In Service	445	7058 Vice St	7,559	4
In Service	1120A	7168 Spesutie Island Road	1,672	2
In Service	3300	6432 Frankford St	32,096	2
In Service	245	6914 Magazine Road	8,359	4
In Service	244	6910 Magazine Road	5,130	4
In Service	339	6944 Mulberry Point Road	15,246	4
In Service	3558	6437 Adle Road	18,167	3
Out of Service	1049	6087 Cruise Rd	6,000	4
In Service	2407	6474 Operations Ave	9,991	1
In Service	2601	6381 Aberdeen Blvd	17,842	4
In Service	269B	6784 Trench Warfare Road	7,297	2
In Service	3070	6663 Rodman Road	35,077	4
In Service	3410	6442 Springfield Steet	1,120	4
In Service	3660A	6462 Hancock Dr	440	4
In Service	922	6671 Cannon St	2,000	4
In Service	383A	6914 Main Front Road	2,863	1
In Service	E2401 TE	E2401 TE 24th Road		4
In Service	E2414	8323 Dirk Dr	211	4
In Service	E2556	9098 Willoughby Rd	1,450	4

In Service	E3109	8909 North Kings Road	4,276	2
In Service	E3161	8413 Sabot Loop	5,725	2
In Service	E3240	8884 South Kings Road	4,648	3
In Service	E4510T	E4510T Hass Road	2,500	4
In Service	10301	866 Priestford Rd, Churchville	4,970	4
In Service	374	6900 Lanyard Road	3,386	4
In Service	1074	6256 Woodrow St	4,404	1

**TECHNICAL EXHIBIT 2P**  
**FPS: HALON**  
**Table 2-20. Halon Systems ITM Tasks**

Frequency	Component	Tasks
Annually	1. Hazard	1. Verify that hazard has not changed.
	2. Piping	1. Inspect piping and nozzles for condition and orientation.
	3. Flexible Hoses	1. Inspect for damage.
	4. Storage Vessels	1. Inspect the exterior of storage containers (tanks, spheres, cylinders).
	5. Agent and Propellant	1. Verify that the quantity of the agent is sufficient. Use ultra-sound or level sensing technology, do not disconnect and weigh tanks. 2. Verify that the pressure of the agent/propellant is sufficient and that the pressure gauge is within operating range.
	6. Actuators	1. Inspect manual actuators for accessibility. 2. Test actuation without agent release.
	7. Auxiliary Equipment	1. Test to verify that interfaces (equipment shutdown, dampers, and door closures) operate properly and are activated by the system actuation.
	8. Valves	1. Verify that valves are in proper alignment.
2 Years	1. Protected Enclosure/Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration.
5 Years	1. Cylinders	1. Complete external inspection of non- discharged cylinders to ensure suitability for use.
	2. Flexible Hoses	1. Pressure test hoses to ensure suitability for use.
As Required	1. Agent Cylinders	1. Hydrostatic testing of cylinders is required only when cylinders are to be re-filled/re-charged. Periodic hydrostatic testing is not required.

After Modification to Compartment/ Protected Enclosure	1. Protected Enclosure/Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration. 2. If uncertainty exists, follow the enclosure procedures in NFPA 12A.
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: <ul style="list-style-type: none"> <li>a. Pipe hangers.</li> <li>b. Nozzles for obstruction.</li> <li>c. Piping for leaks.</li> <li>d. Riser condition.</li> </ul> 2. Ensure: <ul style="list-style-type: none"> <li>a. Detectors unblocked/uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> <li>e. Nozzle covers in place.</li> <li>f. Pressure gauge within operating range.</li> </ul>

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	423	6514 Surveillance Range Road	8,991	4
In Service	423	6514 Surveillance Range Road	8,991	4
In Service	423	6514 Surveillance Range Road	8,991	4
In Service	423	6514 Surveillance Range Road	8,991	4
In Service	436	7077 Velocity St	30,142	2
In Service	436	7077 Velocity St	30,142	2
In Service	686A	7150 Plate Range Road	1,250	4
Out of Service	1045	1045 Menne Road	100	4
In Service	E1491-1T	9293 Watson Creek Rd		4
In Service	E3549	8567 Ricketts Point Road	150,904	4
In Service	E5103	8276 Rouse Road	21,481	2

**TECHNICAL EXHIBIT 2Q**

**FSP: CLEAN AGENT/N2**

**Table 2-21. Clean Agent Systems ITM Tasks**

Frequency	Component	Tasks
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Annually	1. Hazard	1. Verify that hazard has not changed.
	2. Piping	1. Inspect piping and nozzles for condition and orientation.
	3. Flexible Hoses	1. Inspect for damage.
	4. Storage Vessels	1. Inspect the exterior of storage containers (tanks, spheres, cylinders).
	5. Agent and Propellant	1. Verify adequate quantity of agent. Use ultra-sound or liquid level sensing; do not disconnect and weigh tanks. 2. Verify adequate pressure of agent/propellant and pressure gauge within operating range.
	6. Actuators	1. Inspect manual actuators for accessibility. 2. Test actuation without agent release.
	7. Auxiliary Equipment	1. Test to verify that interfaces (equipment shutdown, dampers, and door closures) operate properly and are activated by the system actuation.
	8. Valves	1. Verify that the valves are in proper alignment.
2 Years	1. Protected Enclosure or Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration.
5 Years	1. Cylinders	1. Perform complete external inspection of non-discharged cylinders to ensure suitability for use.
	2. Flexible Hoses	1. Pressure test hoses to ensure suitability for use.
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: a. Pipe hangers. b. Nozzle for obstruction. c. Piping for leaks. d. Riser condition. 2. Ensure: a. Detectors unblocked/uncovered. b. Panels secured and indicator lamps functional. c. Notification appliances in place. d. Manual stations in place and unobstructed. e. Nozzle covers in place. f. Pressure gauge within operating range.
After Modification to Compartment/Protected Enclosure	1. Protected Enclosure/Room	1. Inspect the enclosure to verify integrity and ability to maintain agent concentration. 2. If uncertainty exists, follow the enclosure procedures in NFPA 2001.

**LOCATION:**

<b>STATUS</b>	<b>BUILDING NUMBER (OCCUPANCY)</b>	<b>ADDRESS</b>	<b>SQUARE FOOTAGE</b>	<b>TIER-LEVEL</b>
In Service	ALC 106	106 Glenmore Drive	19,910	1
In Service	ALC 106	106 Glenmore Drive	19,910	1
In Service	ALC 106	106 Glenmore Drive	19,910	1
In Service	ALC 106	106 Glenmore Drive	19,910	1

**TECHNICAL EXHIBIT 2R**  
**FPS: MCR2 RECEIVER STATION**  
**Table 2-1. Fire Detection and Alarm System ITM Tasks**

<b>Frequency</b>	<b>Component</b>	<b>Tasks</b>
Monthly	1. Control Panels and Annunciator Equipment (unmonitored only)	1. Inspect panel condition (connections, fuses, light-emitting diodes [LEDs]). 2. Resolve any trouble indications.
Annually	1. Control Panel and Annunciator Equipment (monitored)	1. Test to verify proper receipt of alarm, supervisory, and trouble signals (inputs, one of each type) and operation of notification appliances and auxiliary functions (outputs, one of each type). 2. Verify that all lamps and LEDs are illuminated. 3. Load test backup batteries using a meter (when provided). 4. Verify condition of power supplies and batteries. 5. Resolve any trouble indications.
	2. Remote Power Supplies and Notification Appliance Circuit Power Extenders	1. Verify that all lamps and LEDs are illuminated. 2. Load test backup batteries using a meter (when provided). 3. Verify condition of power supplies and batteries.
	3. Initiating Devices: a. Manual Fire Alarm Stations	1. Verify station is accessible (visual).

	b. Radiant Energy-Sensing Detectors (Optical Detectors)	<p>7. If used for releasing service, inhibit releasing function.</p> <p>8. Test to verify alarm initiation and receipt.</p> <p>9. Verify that no facility change affects performance.</p> <p>10. Verify alignment of the positioning markings at all adjustment locations.</p> <p>11. If used for releasing service, configure system for automatic operation.</p> <p>12. If used for releasing service, restore to releasing service.</p>
	c. Gas Detectors	<p>3. Test to verify alarm initiation and receipt.</p> <p>4. Verify no facility change that affects performance.</p>
	d. Carbon Monoxide Detectors	<p>3. Test to verify alarm initiation and receipt.</p> <p>4. Verify that no facility change affects performance.</p>
	4. Notification Appliances and Voice Communication (telephone, speakers, horns, and strobe lights)	<p>1. Test to verify operability.</p>
	5. Digital Alarm Transmitters and Receivers	<p>1. Test to verify operability.</p>
	6. Radio Alarm Transmitters and Receivers	<p>1. Test to verify operability.</p>
2 Years	1. Initiating Devices: a. Manual Fire Alarm Stations	<p>1. Operate to verify alarm receipt.</p>
	b. Heat Detectors (restorable) (Remove devices not required by UFC 3-600-01.)	<p>1. Test with a heat source to verify alarm initiating and receipt.</p> <p>2. Verify that no facility change affects performance.</p>
	c. Smoke Detectors (single-station detectors, system detectors, and air sampling detectors) (Remove devices not required by UFC 3-600-01 or other directives.)	<p>3. Test with manufacturer-approved smoke simulant to verify smoke entry and alarm initiation and receipt.</p> <p>4. Verify that no facility change affects performance.</p>
	d. Supervisory Devices (low air pressure, temperature, water level)	<p>1. Test to verify initiation and receipt of supervisory alarm.</p>

	2. Fire Suppression System Releasing and Abort Stations	<ol style="list-style-type: none"> <li>1. Inhibit releasing function</li> <li>2. Test to verify proper operation and system response.</li> <li>3. Configure system for automatic operation.</li> <li>4. Restore releasing function.</li> </ol>
5 Years	1. Smoke Detectors (Remove devices not required by UFC 3-600-01.)	1. Test detector sensitivity to ensure that the detector has remained within its listed and marked sensitivity range (or 4 percent obscuration light gray smoke, if not marked).
10 years	1. Carbon Monoxide Detectors	1. Replace detectors.
	2. Radiant Energy-Sensing Detectors (Optical Detectors)	<ol style="list-style-type: none"> <li>1. Verify manufacturer's service life for detection elements. UV detection element's normal service life is 10 years; others vary by manufacturer.</li> <li>2. Replace detectors which have exceeded manufacturer's recommended service life for detection elements.</li> </ol>
20 years	1. Smoke Detectors (single-station detectors, and system detectors)	1. Replace detectors.
	2. Air Sampling Smoke Detectors	1. Replace detection element.
	3. Control Panel and Annunciator Equipment	<ol style="list-style-type: none"> <li>1. Verify manufacturer's service life for control elements.</li> <li>2. Verify manufacturer has continued technical and parts support for the specific model.</li> <li>3. Replace control equipment that have exceeded manufacturer's recommended service life limits or if the manufacturer has ceased to provide technical and parts support.</li> </ol>
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	<ol style="list-style-type: none"> <li>1. Visually check: <ol style="list-style-type: none"> <li>a. Detectors unblocked and uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> </ol> </li> <li>2. Exercise evacuation notification appliances for audibility, clarity, and visibility.</li> </ol>

LOCATION:

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	E5180	8218 Hoadley Rd	14,741	1
In Service	2478	6474 Harford Boulevard	8,166	1



**FPS: KING FISHER COMBO**  
**Table 2-1. Fire Detection and Alarm System ITM Tasks**

Frequency	Component	Tasks
Monthly	1. Control Panels and Annunciator Equipment (unmonitored only)	<ol style="list-style-type: none"> <li>1. Inspect panel condition (connections, fuses, light-emitting diodes [LEDs]).</li> <li>2. Resolve any trouble indications.</li> </ol>
Annually	1. Control Panel and Annunciator Equipment (monitored)	<ol style="list-style-type: none"> <li>1. Test to verify proper receipt of alarm, supervisory, and trouble signals (inputs, one of each type) and operation of notification appliances and auxiliary functions (outputs, one of each type).</li> <li>2. Verify that all lamps and LEDs are illuminated.</li> <li>3. Load test backup batteries using a meter (when provided).</li> <li>4. Verify condition of power supplies and batteries.</li> <li>5. Resolve any trouble indications.</li> </ol>
	2. Remote Power Supplies and Notification Appliance Circuit Power Extenders	<ol style="list-style-type: none"> <li>1. Verify that all lamps and LEDs are illuminated.</li> <li>2. Load test backup batteries using a meter (when provided).</li> <li>3. Verify condition of power supplies and batteries.</li> </ol>
	3. Initiating Devices: a. Manual Fire Alarm Stations	<ol style="list-style-type: none"> <li>1. Verify station is accessible (visual).</li> </ol>
	b. Radiant Energy-Sensing Detectors (Optical Detectors)	<ol style="list-style-type: none"> <li>1. If used for releasing service, inhibit releasing function.</li> <li>2. Test to verify alarm initiation and receipt.</li> <li>3. Verify that no facility change affects performance.</li> <li>4. Verify alignment of the positioning markings at all adjustment locations.</li> <li>5. If used for releasing service, configure system for automatic operation.</li> <li>6. If used for releasing service, restore to releasing service.</li> </ol>
	c. Gas Detectors	<ol style="list-style-type: none"> <li>1. Test to verify alarm initiation and receipt.</li> <li>2. Verify no facility change that affects performance.</li> </ol>
	d. Carbon Monoxide Detectors	<ol style="list-style-type: none"> <li>1. Test to verify alarm initiation and receipt.</li> <li>2. Verify that no facility change affects performance.</li> </ol>
	4. Notification Appliances and Voice Communication (telephone, speakers, horns, and strobe lights)	<ol style="list-style-type: none"> <li>1. Test to verify operability.</li> </ol>

	5. Digital Alarm Transmitters and Receivers	1. Test to verify operability.
	6. Radio Alarm Transmitters and Receivers	1. Test to verify operability.
2 Years	1. Initiating Devices: a. Manual Fire Alarm Stations	1. Operate to verify alarm receipt.
	b. Heat Detectors (restorable) (Remove devices not required by UFC 3-600-01.)	1. Test with a heat source to verify alarm initiating and receipt. 2. Verify that no facility change affects performance.
	c. Smoke Detectors (single-station detectors, system detectors, and air sampling detectors) (Remove devices not required by UFC 3-600-01 or other directives.)	1. Test with manufacturer-approved smoke simulant to verify smoke entry and alarm initiation and receipt. 2. Verify that no facility change affects performance.
	d. Supervisory Devices (low air pressure, temperature, water level)	1. Test to verify initiation and receipt of supervisory alarm.
	2. Fire Suppression System Releasing and Abort Stations	1. Inhibit releasing function 2. Test to verify proper operation and system response. 3. Configure system for automatic operation. 4. Restore releasing function.
5 Years	1. Smoke Detectors (Remove devices not required by UFC 3-600-01.)	1. Test detector sensitivity to ensure that the detector has remained within its listed and marked sensitivity range (or 4 percent obscuration light gray smoke, if not marked).
10 years	1. Carbon Monoxide Detectors	1. Replace detectors.
	2. Radiant Energy-Sensing Detectors (Optical Detectors)	1. Verify manufacturer's service life for detection elements. UV detection element's normal service life is 10 years; others vary by manufacturer. 2. Replace detectors which have exceeded manufacturer's recommended service life for detection elements.
20 years	1. Smoke Detectors (single-station detectors, and system detectors)	1. Replace detectors.
	2. Air Sampling Smoke Detectors	1. Replace detection element.

	3. Control Panel and Annunciator Equipment	<ol style="list-style-type: none"> <li>1. Verify manufacturer's service life for control elements.</li> <li>2. Verify manufacturer has continued technical and parts support for the specific model.</li> <li>3. Replace control equipment that have exceeded manufacturer's recommended service life limits or if the manufacturer has ceased to provide technical and parts support.</li> </ol>
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	<ol style="list-style-type: none"> <li>1. Visually check: <ol style="list-style-type: none"> <li>a. Detectors unblocked and uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> </ol> </li> <li>2. Exercise evacuation notification appliances for audibility, clarity, and visibility.</li> </ol>

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	1043	6848 Cruise Rd	822	1
In Service	1046	6932 Menne Road	3,000	2
In Service	1052	6226 Military St	4,876	1
In Service	1055	6200 Military St	1,000	3
In Service	1059	6878 Cruise Rd	3,680	1
In Service	1068	6884 Cruise Rd	4,813	4
In Service	1065	6882 Cruise Rd	5,000	1
In Service	1089A	6917 AirBase Loop Road	6,183	2
In Service	1100D	7134 Spesutie Island Road	4,800	2
In Service	1100F	7116 Spesutie Island Road	16,498	2
In Service	1103A	7122 Spesutie Island Road	2,000	2
In Service	1106A	7152 Spesutie Island Road	2,278	2
In Service	1114	7166 Sacrifice St	10,526	1
In Service	1114A	6111 Morgan Rd	240	1
In Service	1116A	6095 Morgan Road	9,083	2
In Service	1116B	6097 Morgan Road	3,850	2
In Service	1120A	7164 Spesutie Island Road	1,672	2
In Service	1120B	7160 Spesutie Island Road	6,000	2
In Service	1134	7361 Locust Point Avenue	2,856	2
In Service	1134B	7334 Locust Point Avenue	6,000	2
In Service	1145C	6205 Way Place	300	2
In Service	1151	7656 Spesutie Island Rd	300	2
In Service	1185	7460 Tumble Lane	3,625	2
In Service	1186	7466 Tumble Lane	7,373	2
In Service	1193	7431 Spesutie Island Road	800	2
In Service	2006	6709 Aberdeen Blvd	2,988	4

In Service	2184	6627 Aerospace Rd	14,200	3
In Service	E2200	9153 21st Street	11,304	4
In Service	2202	6617 Aberdeen Blvd	151,403	1
In Service	2208	6343 Frankford St	11,566	4
In Service	2209	6333 Frankford St	18,085	4
In Service	2308	6538 Rock Island Street	8,321	4
In Service	2330	6507 Aberdeen Blvd	3,624	4
In Service	2333	6516 Rock Island Street	8,391	2
In Service	2338	6508 Rock Island Street	8,521	2
In Service	2342	6501 Aberdeen Blvd	17,314	1
In Service	2379	6353 Harford Rd	9,992	2
In Service	2401	6487 Aberdeen Blvd	63,310	1
In Service	2407	6474 Operations Ave	9,991	1
In Service	241	6893 Magazine Road	4,970	3
In Service	242	6898 Magazine Road	4,970	3
In Service	243	6904 Magazine Road	4,970	3
In Service	2458	6438 Rock Island Street	8,359	4
In Service	246	6920 Magazine Road	5,149	3
In Service	2478	6474 Harford Blvd	8,166	1
In Service	2479	6472 Machine St	2,752	1
In Service	2484	6460 Harford Blvd	8,313	2
In Service	2485	6441 Rock Island Street	43,020	1
In Service	2501T	6460 Advanced Tactics Rd		1
In Service	2503	6431 Advanced Tactics Rd	15,218	4
In Service	2514	6385 Harford Blvd	8,604	2
In Service	2521	64301 Bayside Drive	12,897	1
In Service	2522	6448 Bayside Drive	19,599	1
In Service	269B	6784 Trench Warfare Road	7,297	2
In Service	269C	6788 Trench Warfare Road	5,724	2
In Service	269D	6780 Trench Warfare Road	3,432	2
In Service	2727	6321 Demby Rd	5,494	4
In Service	30	6817 Plumb Point Dr	58,085	1
In Service	3000	6644 Aberdeen Blvd	302	1
In Service	3070	6663 Rodman Road	35,077	4
In Service	3071	6662 Gunner Cir	45,977	1
In Service	3072	6678 Gunner Cir	42,188	1
In Service	3073	6648 Gunner Cir	30,403	1
In Service	3074	6662 Raritan Avenue	54,282	2
In Service	3090	6690 Raritan Ave	98,860	1
In Service	311	6851 Civil Rd	8,144	1
In Service	3144	6623 Raritan Avenue	47,542	2
In Service	3147	6635 Raritan Avenue	31,291	1
In Service	3148	6407 Bayonet Rd	28,371	1

In Service	309	6917 Civil Rd	32,000	1
In Service	315	6350 Gillon St	78,364	1
In Service	320	6367 Johnson Rd	41,552	2
In Service	3200	6630 Raritan Ave	139,175	1
In Service	321	6375 Johnson Rd	35,806	2
In Service	3240	6581 Raritan Avenue	10,000	4
In Service	3245	6554 Aberdeen Blvd	18,444	4
In Service	3323	6516 Aberdeen Blvd	324	4
In Service	3330	6490 Raritan Avenue	26,637	4
In Service	330 - 331	6335 Gillon St	8,729 + 16,883	2
In Service	338	6910 Civil Rd	45,291	1
In Service	338A	6901 Goldstine Dr	6,064	1
In Service	3409	3409 Springfield St	1,509	4
In Service	349	6875 Recoil Avenue	4,626	3
In Service	350	6814 Main Front Road	14,447	2
In Service	3500	6460 Rodman Road	252	1
In Service	352	6824 Main Front Road	6,561	2
In Service	3554	6435 Adle Road	18,655	3
In Service	3556	6421 Adle Road	9,000	2
In Service	358	6850 Lanyard Road	13,583	2
In Service	3604A	6452 Adle Rd		4
In Service	367	6908 Mauchly Street	23,481	2
In Service	368V	6832 Main Front Road	6,352	2
In Service	372	6890 Lanyard Road	4,207	2
In Service	381V	6864 Main Front Road	1,224	2
In Service	382V	6886 Main Front Road	1,224	2
In Service	384C	6946 Main Front Road	17,405	1
In Service	384G	6950 Main Front Road	3,620	2
In Service	390	6931 Civil Rd	58,025	2
In Service	390A	6928 Mauchly Street	8,505	2
In Service	392	6896 Mauchly Street	31,217	2
In Service	393	6941 Mauchly Street	15,365	2
In Service	400	6943 Colleran Road	78,547	1
In Service	423 -425- 429	6514 Surveillance Range Rd	8,729 + 1,605 + 5,600	4
In Service	400A	6927 Colleran Road	1,050	1
In Service	4118	6621 Boothby Hill Ave	43,054	2
In Service	4119	6630 Rodman Road	14,052	2
In Service	4120	6637 Boothby Hill Avenue	43,500	2
In Service	4210	6470 Bayonet Rd	22,922	3
In Service	4219	6558 Rodman Rd	15,246	3
In Service	433	7102 Caisson St	7,283	3
In Service	434	7101 Velocity St	11,999	3
In Service	436	7077 Velocity St	30,142	2

In Service	4401	6472 Integrity Ct	33,308	2
In Service	45	6288 6817 Plumb Point Dr	12,199	4
In Service	450A	7124 Caisson St	26,063	3
In Service	450B	450B Burks Street	3,750	3
In Service	4503	6482 Springfield Street	14,255	2
In Service	4506	6444 Rodman Road	7,549	2
In Service	453	7124 Velocity St	8,747	3
In Service	459A	6388 Intelligence St	912	2
In Service	4603	6340 Rodman Rd	35,568	1
In Service	460A	6335 Intelligence S	1,152	2
In Service	4725A	6257 Bomb Loop	3,554	2
In Service	5016	6573 Havre de Grace St	93,668	2
In Service	520	7152 Velocity St	21,202	2
In Service	526A	7092 Mulberry Point Road	7,200	2
In Service	5608A	5608A Riggles Road	6,466	4
In Service	5615	6604 Cruise Rd	252	1
In Service	5701	6244 Visitors Ln	2,000	2
In Service	6001	6565 Surveillance Loop	248,404	1
In Service	6240	6240 Guardian Gateway	59,977	N/A
In Service	6260	6260 Guardian Gateway	74,321	N/A
In Service	6280	6280 Guardian Gateway	74,321	N/A
In Service	640B	7370 Anti-Aircraft Loop	900	4
In Service	699	6619 Surveillance Range Rd	12,028	1
In Service	686A	7150 Plate Range Road	1,250	4
In Service	691	7089 Plate Range Road	1,848	3
In Service	717	6860 Shell Street	5,824	1
In Service	736	6625 Valor Rd	3,444	4
In Service	740D	7191 Terrain Rd	400	1
In Service	860	7224 Retort Rd	7,797	2
In Service	861	7337 Retort Rd	20,252	2
In Service	895	6220 Palmer Rd	5,238	4
In Service	906A	6616 Fords Farm Road	4,800	4
In Service	906C	6618 Fords Farm Road	6,960	2
In Service	922 E2	7545 Live Fire Rd	761	2
In Service	922 E3	7541 Live Fire Rd	780	2
In Service	922 E5	7630 Live Fire Rd	761	2
In Service	924	7540 Live Fire Rd	2,644	4
In Service	936	7447 Live Fire Rd	2,000	3
In Service	937	7458 Live Fire Rd	2,000	2
In Service	733A	6617 Valor Rd	6,871	4
In Service	743A	6614 Rifle Range Road	1,946	2
In Service	E5800	8638 40th Street	7,963	3
In Service	1171	7401 Locust Point Avenue	2,412	2
In Service	363	6901 Lanyard Road	10,638	1

In Service	E1043	9105 Lauderick Creek Road	5,245	3
In Service	E1260	8063 Selenodesy Rd	3,192	4
In Service	E1401	801 Balisage St	13,368	2
In Service	E1407	8868 Fissile St	2,276	4
In Service	E1430	8716 Army St	3,876	1
In Service	E1458	9022 Ricketts Point Rd	2,400	3
In Service	E1570	8977 Sibert Road	47,027	2
In Service	E1645	8062 Lull Road	3,591	2
In Service	E1675	8072 Wise Road	34,821	2
In Service	E1677	8078 Wise Road	12,552	2
In Service	E1901	8116 Scully Road	9,636	1
In Service	E1902	8136 Scully Road	12,054	1
In Service	E1947	8939 Schaefer Road	12,719	2
In Service	E1958	8924 Schaefer Road	19,865	2
In Service	E2100	8988 Willoughby Rd	66,901	1
In Service	E2160	9061 19 <sup>th</sup> St	12,501	4
In Service	E2162	068 19 <sup>th</sup> St	12,477	4
In Service	E2180	8313 Cadwalder Road	12,987	3
In Service	E2182	8306 Cadwalder Road	12,477	3
In Service	E2184	8293 Cadwalder Road	12,440	3
In Service	E2188	8270 Cadwalder Road	12,461	1
In Service	E2193	9062 Willoughby Rd	602	4
In Service	E2390	9173 27th Street	11,474	2
In Service	E2400	9088 21st Street	41,062	1
In Service	E2410	831 Dirk Dr	2,783	2
In Service	E2433	8428 CBRNE Dr	9,204	2
In Service	E2800	8228 Scully Rd	77,298	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2901	8907 North Kings Creek Road	39,180	1
In Service	E3000	8942 Willoughby Rd	302	1
In Service	E3081	8937 North Kings Creek Road	72,209	1
In Service	E3101	8915 South Kings Creek Road	4,344	4
In Service	E3103	8913 North Kings Creek Road	3,398	4
In Service	E3104	8911 South Kings Creek Road	4,821	4
In Service	E3105	8891 North Kings Creek Road	2,101	4
In Service	E3107	8908 North Kings Creek Road	2,101	4
In Service	E3151	8944 North Kings Creek Road	1,316	1
In Service	E3160	8956 North Kings Creek Road	25,088	1
In Service	E3240	8884 South Kings Creek Road	4,648	3
In Service	E3300	8467 Ricketts Point Road	44,352	4
In Service	E3326	8867 Master St	2,184	3
In Service	E3375	8891 Master St	2,520	4
In Service	E3400	8510 Ricketts Point Rd	176,451	1

In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3461	8526 Ricketts Point Road	588	1
In Service	E3462	8540 Otto Road	8,554	1
In Service	E3524	8528 Senate St	4,941	2
In Service	E3525	8536 Senate St	2,175	2
In Service	E3526	8560 Ricketts Point Road	2,880	4
In Service	E3548 - 3551	8559 Ricketts Point Road	5,633 + 5,701	4
In Service	E3560 - 3566	8912 Beach Point Road	2,400 + 11,695	1
In Service	E3580	8958 Beach Point Road	8,226	1
In Service	E3607	8903 Beach Point Road	2,500	3
In Service	E3726	8975 Master St	7,320	1
In Service	E3830	8913 Guard St	4,800	4
In Service	E3832	8913 Guard St	14,146	1
In Service	E3837	8909 Guard St t	2,400	1
In Service	E3844	8921 Guard St	6,020	1
In Service	E3857	9032 Beach Point Road	2,087	3
In Service	E3931	9000 Medal St	3,200	4
In Service	E3938	9015 Medal St	2,000	4
In Service	E3941	9018 Medal St	3,974	4
In Service	E4010	8229 Wise Road	8,147	1
In Service	E4081	8361 Wise Road	136,646	N/A
In Service	E4110	8457 Brigade St	13,711	1
In Service	E4210	8419 Otto Road	29,816	3
In Service	E4225	8424 Otto Road	14,015	4
In Service	E4306	8462 Otto Road	5,766	N/A
In Service	E4420	8715 Glory St	15,623	N/A
In Service	E4435	8702 Lietzan Road	19,259	4
In Service	E4445	8688 Lietzan Rd	2,369	4
In Service	E4465	8374 Gannon Road	18,182	3
In Service	E4480	8671 Glory St	18,855	3
In Service	E4500	8682 Glory St	302	4
In Service	E4517	8427 Corporal St	5,032	4
In Service	E4525	8679 Corporal St	10,046	2
In Service	E4585	8435 Hoadley Road	25,917	1
In Service	E4586	8444 Corporal St	2,571	4
In Service	E4620	8370 Brigade St	13,928	2
In Service	E4655	8603 Massawomeck Loop	2,760	4
In Service	E4811	8661 Jessup Rd	5,136	2
In Service	E4900	8602 Jessup Road	14,830	1
In Service	E4902	8599 Jessup Road	15,338	1
In Service	E5002	8213 Hoadley Road	10,000	4
In Service	E5908	8104 Hoadley Road	2,100	4
In Service	E5027	8193 Blackhawk Road	23,490	3



In Service	E5057	8813 Magnolia Road	26,124	2
In Service	E5058	8809 Magnolia Road	25,975	2
In Service	E5100	8820 Fleming Road	29,852	1
In Service	E5100	8820 Fleming Road	29,852	1
In Service	E5101	8222 Hoadley Road	69,674	1
In Service	E5106	8842 Fleming Road	18,621	4
In Service	E5140	8791 Fleming Road	12,529	3
In Service	E5141	E8789 Fleming Road	3,134	4
In Service	E5165	8242 Blackhawk Road	32,390	3
Out of Service	E5179	8222 Blackhawk Road	43,078	3
In Service	E5183	8198 Blackhawk Road	12,305	3
In Service	E5185	8784 32nd Street	161,689	1
In Service	E5185	8784 32nd Street	161,689	1
In Service	E5232	8792 Fleming Road	7,348	4
In Service	E5236	8284 14th Street	13,845	2
In Service	E5286	8308 14th Street	5,927	4
In Service	E5311	8229 Hanlon Road		4
In Service	E5354	8226 Hanlon Road	9,264	3
In Service	E5360	8236 Hanlon Road	23,515	3
In Service	E5425	8709 Troop St	1,385	3
In Service	E5427	8272 Laus St	7,372	3
In Service	E5560	8224 35th Street	9,873	1
In Service	E5600	8733 Fleming Road	298	4
In Service	E5641	8128 Alley Road	4,731	4
In Service	E5703	8787 Magnolia Road	41,628	4
In Service	E5803	8646 40th Street	6,544	4
In Service	E5840	8640 42nd Street	16,602	4
In Service	E5863	8143 46th Street	1,800	4
In Service	E5864	8132 Brigade St	7,929	1
In Service	E5866	8150 Brigade St	7,929	1
In Service	E5884	8563 Greenhouse Avenue	11,167	1
In Service	E6700	9258 Lauderick Creek Rd	9,617	4
In Service	E7239	8468 Maxwell Point Rd	240	4
In Service	E3728	8971 Master St	2,596	2
In Service	394	6925 Mauchly Street	57,176	1
In Service	394	6925 Mauchly Street	57,176	1
In Service	3558	6437 Adle Road	18,655	2
Out of Service	1105	6096 Morgan Road	8,010	2
In Service	2031	6666 Founders St	2,520	4
In Service	237	6901 Magazine Rd	8,296	3
In Service	247	6915 Mauchley Street	8,242	3
In Service	2601	6381 Aberdeen Blvd	17,842	3
In Service	269C	6788 Trench Warfare Road	4,650	2

In Service	276	6485 Michaelsville Road	252	2
In Service	2050	6720 Captain John Smith Rd	811	2
In Service	3410	6442 Springfield Street	1,120	4
In Service	359	6851 Lanyard Road	20,017	2
In Service	3660A	6462 Hancock Dr	50,602	1
In Service	4019	6703 Boothby Hill Avenue	9,867	4
In Service	5015	6503 Havre de Grace Street	10,322	3
In Service	5110	6638 Pistol Road	11,293	1
In Service	922	6671 Cannon St	2,000	2
In Service	E4410	8719 Lietzan Road	17,848	4
In Service	E4228	8739 Glory St	5,173	4
In Service	E1950	8965 Schaefer Road	20,863	2
In Service	E2168	9123 20th Street	13,841	4
In Service	E2196	9101 21st Street	13,784	4
In Service	E2556	9098 Willoughby Rd	1,450	4
In Service	E3109	8909 North King Road	4,276	2
In Service	E3161	8413 Sabot Loop	5,725	2
In Service	E3552	8888 Beach Point Road	2,584	2
In Service	E4430	8705 Lietzan Road	16,667	4
In Service	E4455	8688 Lietzan Road	16,784	4
In Service	E4460	8685 Glory St	17,606	3
In Service	E4470	8376 Gannon Rd	17,389	3
In Service	E4475	8378 Gannon Rd	17,786	3
In Service	E4510T	8427 Billet St	2,500	4
In Service	E4810	8385 Brigade St	5,361	2
In Service	E5061	8793 Magnolia Road	26,209	2
In Service	E5234	8270 14th Street	15,889	4
In Service	E5352	8232 Hanlon Road	11,171	4
In Service	E5654	8175 Hanlon Road	21,846	3

**TECHNICAL EXHIBIT 2T**  
**FPS: KING FISHER IRAC**

**Table 2-1. Fire Detection and Alarm System ITM Tasks**

Frequency	Component	Tasks
Monthly	1. Control Panels and Annunciator Equipment (unmonitored only)	1. Inspect panel condition (connections, fuses, light-emitting diodes [LEDs]). 2. Resolve any trouble indications.

Annually	1. Control Panel and Annunciator Equipment (monitored)	<ol style="list-style-type: none"> <li>1. Test to verify proper receipt of alarm, supervisory, and trouble signals (inputs, one of each type) and operation of notification appliances and auxiliary functions (outputs, one of each type).</li> <li>2. Verify that all lamps and LEDs are illuminated.</li> <li>3. Load test backup batteries using a meter (when provided).</li> <li>4. Verify condition of power supplies and batteries.</li> <li>5. Resolve any trouble indications.</li> </ol>
	2. Remote Power Supplies and Notification Appliance Circuit Power Extenders	<ol style="list-style-type: none"> <li>1. Verify that all lamps and LEDs are illuminated.</li> <li>2. Load test backup batteries using a meter (when provided).</li> <li>3. Verify condition of power supplies and batteries.</li> </ol>
	3. Initiating Devices:	1. Verify station is accessible (visual).
	a. Manual Fire Alarm Stations	
	b. Radiant Energy-Sensing Detectors (Optical Detectors)	<ol style="list-style-type: none"> <li>1. If used for releasing service, inhibit releasing function.</li> <li>2. Test to verify alarm initiation and receipt.</li> <li>3. Verify that no facility change affects performance.</li> <li>4. Verify alignment of the positioning markings at all adjustment locations.</li> <li>5. If used for releasing service, configure system for automatic operation.</li> <li>6. If used for releasing service, restore to releasing service.</li> </ol>
	c. Gas Detectors	<ol style="list-style-type: none"> <li>1. Test to verify alarm initiation and receipt.</li> <li>2. Verify no facility change that affects performance.</li> </ol>
	d. Carbon Monoxide Detectors	<ol style="list-style-type: none"> <li>1. Test to verify alarm initiation and receipt.</li> <li>2. Verify that no facility change affects performance.</li> </ol>
	4. Notification Appliances and Voice Communication (telephone, speakers, horns, and strobe lights)	1. Test to verify operability.
	5. Digital Alarm Transmitters and Receivers	1. Test to verify operability.
	6. Radio Alarm Transmitters and Receivers	1. Test to verify operability.

2 Years	1. Initiating Devices: a. Manual Fire Alarm Stations	1. Operate to verify alarm receipt.
	b. Heat Detectors (restorable) (Remove devices not required by UFC 3-600-01.)	1. Test with a heat source to verify alarm initiating and receipt. 2. Verify that no facility change affects performance.
	c. Smoke Detectors (single-station detectors, system detectors, and air sampling detectors) (Remove devices not required by UFC 3-600-01 or other directives.)	1. Test with manufacturer-approved smoke simulant to verify smoke entry and alarm initiation and receipt. 2. Verify that no facility change affects performance.
	d. Supervisory Devices (low air pressure, temperature, water level)	1. Test to verify initiation and receipt of supervisory alarm.
	2. Fire Suppression System Releasing and Abort Stations	1. Inhibit releasing function 2. Test to verify proper operation and system response. 3. Configure system for automatic operation. 4. Restore releasing function.
5 Years	1. Smoke Detectors (Remove devices not required by UFC 3-600-01.)	1. Test detector sensitivity to ensure that the detector has remained within its listed and marked sensitivity range (or 4 percent obscuration light gray smoke, if not marked).
10 years	1. Carbon Monoxide Detectors	1. Replace detectors.
	2. Radiant Energy-Sensing Detectors (Optical Detectors)	1. Verify manufacturer's service life for detection elements. UV detection element's normal service life is 10 years; others vary by manufacturer. 2. Replace detectors which have exceeded manufacturer's recommended service life for detection elements.
20 years	1. Smoke Detectors (single-station detectors, and system detectors)	1. Replace detectors.
	2. Air Sampling Smoke Detectors	1. Replace detection element.

	3. Control Panel and Annunciator Equipment	<ol style="list-style-type: none"> <li>1. Verify manufacturer's service life for control elements.</li> <li>2. Verify manufacturer has continued technical and parts support for the specific model.</li> <li>3. Replace control equipment that have exceeded manufacturer's recommended service life limits or if the manufacturer has ceased to provide technical and parts support.</li> </ol>
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	<ol style="list-style-type: none"> <li>1. Visually check: <ol style="list-style-type: none"> <li>a. Detectors unblocked and uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> </ol> </li> <li>2. Exercise evacuation notification appliances for audibility, clarity, and visibility.</li> </ol>

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	1056	6201 Military St	5,000	3
In Service	1060	6870 Cruise Rd	42,575	1
In Service	1067	6886 Cruise Rd	3,115	1
In Service	1100H	7120 Spesutie Island Road		2
In Service	1119B	6086 Moulton Ln	2,880	2
In Service	1120C	7158 Spesutie Island Road	6,000	2
In Service	1145	6253 Sand Road	4,000	2
In Service	1150B	6507 Morgan Road	1,800	2
In Service	1151	7656 Spesutie Island Rd	2,675	2
In Service	1175	7402 Locust Point Ave		2
In Service	1196	7686 Trail Rd	5,376	2
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	2001	6751 Aberdeen Blvd	3,756	4
In Service	2207	6364 Bayonet Rd	79,939	N/A
In Service	2453	6444 Rock Island Street	8,277	4
In Service	248	6907 Mauchly Street	9,203	3
In Service	2482	6462 Harford Blvd	8,477	2
In Service	2501	6455 Machine St.	82,998	1
In Service	269E	6792 Trench Warfare Road	3,952	2
In Service	280A	6793 Trench Warfare Road	6,214	2
In Service	280B	6795 Trench Warfare Road	4,784	2
In Service	280C	6797 Trench Warfare Road	12,914	2

In Service	305	6836 Civil Rd	55,882	1
In Service	309	6917 Civil Rd	37,818	1
In Service	316	6363 Johnson Rd	19,512	1
In Service	324	6867 Colleran Rd	21,317	2
In Service	325	6887 Colleran Rd	1,578	3
In Service	327	6895 Civil Rd	10,505	2
In Service	328	6321 Gillon St	90,015	1
In Service	342	6359 Gillon St	16,357	2
In Service	346	6361 Gillon St	8,569	3
In Service	360	6873 Lanyard Rd	15,482	2
In Service	3325	6500 Ranitan Avenue	3,660	4
In Service	3326	6432 Ashbury St	27,957	1
In Service	337	6927 Goldstine Dr	1,152	2
In Service	338C	6902 Goldstine Drive	6,000	2
In Service	383A	6914 Main Front Road	11,292	1
In Service	383B	6912 Main Front Road	3,256	1
In Service	383C	6920 Main Front Road	4,053	1
In Service	383F	383F Main Front Road		1
In Service	384F	6964 Main Front Road	4,832	1
In Service	400B	6949 Colleran Rd	6,806	2
In Service	402	6960 Goldstine Drive	35,067	2
In Service	4117	6629 Boothby Hill Ave	11,948	2
In Service	4211	6472 Bayonet Rd	22,915	3
In Service	4213	6586 Rodman Rd	22,915	3
In Service	4218	6471 Frankford St	42,888	3
In Service	4220	6566 Rodman Road	43,941	3
In Service	4302	6531 Boothby Hill Avenue	11,186	2
In Service	4309	6472 Frankford St	23,280	3
In Service	431	6979 Mulberry Point Road	5,481	3
In Service	4311	6499 Integrity Ct	11,965	3
In Service	4314	6469 Integrity Ct	23,349	4
In Service	4403	6497 Springfield Street	14,255	2
In Service	4501	6509 Wayberry Rd	37,100	2
In Service	4502	6503 Wayberry Rd	37,100	2
In Service	4504	6474 Springfield Street	34,557	2
In Service	4505	6462 Springfield Street	14,468	2
In Service	4507	6436 Rodman Road	38,080	1
In Service	4508	6483 Wayberry Rd	38,080	2
In Service	4509	6422 Rodman Road	38,080	1
In Service	4510	6524 Wayberry Rd	10,310	1
In Service	451A	7112 Warfare St	3,486	2
In Service	456	6434 Intelligence St	48,499	1

In Service	4600	6300 Rodman Rd	344,021	1
In Service	460B	6329 Intelligence St	4,800	2
In Service	463	6444 Intelligence St	6,000	2
In Service	4725	6259 Bomb Loop	14,165	2
In Service	501	6464 Narrows Road	38,487	1
In Service	5111	6634 Pistol Road	7,303	4
In Service	517	7135 Mulberry Point Road	10,864	2
In Service	5600	6684 Ruggles Road	10,074	3
In Service	6000	6555 Surveillance Loop	18,206	1
In Service	6002	6585 Surveillance Loop	276,276	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6005	6630 Surveillance Loop	48,058	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6011	6540 Boothby Hill Ave	80,571	1
In Service	606	7254 Antiaircraft Loop	2,226	3
In Service	607	7250 Antiaircraft Loop	4,080	3
In Service	608	7248 Antiaircraft Loop	6,103	3
In Service	609	7244 Antiaircraft Loop	6,262	3
In Service	610	7240 Antiaircraft Loop	4,456	3
In Service	638	7358 Antiaircraft Loop	4,295	3
In Service	643	7284 75th Street	13,300	3
In Service	667	7241 Plate Range Road	6,428	3
In Service	668	7235 Plate Range Road	2,226	3
In Service	688	7114 Plate Range Road	24,192	1
In Service	689	7104 Plate Range Road	11,117	2
In Service	690	7098 Plate Range Road	13,228	1
In Service	699	6619 Surveillance Range Rd	12,028	1
In Service	700G	6981 Michaelsville Road	4,028	1
In Service	714F	6934 Michaelsville Rd	4,800	1
In Service	714G	6938 Michaelsville Rd	4,800	1
In Service	737B	6631 Valor Rd	3,000	4
In Service	737D	6647 Valor Rd	4,324	4
In Service	800A	7484 Poverty Island Rd	2,416	2
In Service	851	6492 Rifle Range Rd	8,425	4
In Service	893	7190 Gun Mount Test Rd	897	1
In Service	895	6220 Palmer	5,238	4
In Service	895A	6212 Palmer	5,238	2
In Service	922A	7541 Live Fire Lane	7,299	4
In Service	922	6671 Cannon St	2,023	3
In Service	923	6683 Cannon St	2,400	4
In Service	983	7584 Poverty Island Road	3,800	2

In Service	E4040	8323 Wise Road	12,291	N/A
In Service	4502	6503 Wayberry Rd	100	2
In Service	E3331	8483 Ricketts Point Road	50,814	1
In Service	745	6634 Radar Rd	13,126	1
In Service	E4039	8315 Wise Rd	2,542	4
In Service	E3549	8567 Ricketts Point Road	150,904	4
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	1170	7403 Locust Point Avenue	600	2
In Service	4308	6522 Rodman Road	1,642	N/A
In Service	383A	6914 Main Front Road	2,863	1
In Service	4313	6483 Integrity Ct	9,779	4
In Service	5014	6696 Boothby Hill Avenue	88,631	1
In Service	4315	6471 Integrity Ct	1,640	4
In Service	3400	6444 Aberdeen Blvd	68,252	2
In Service	4304	6504 Rodman Rd	41,904	2
In Service	E1457	9026 Ricketts Point Road	9,781	3
In Service	E1476	9114 Watson Creek rD	191	3
In Service	E1502	8814 Ricketts Point Road		2
In Service	E1503	8812 Ricketts Point Road		2
In Service	E1930	8968 Depot Road	30,911	2
In Service	E1946	8940 Depot Road	4,318	2
In Service	E2187	8280 Cadwalder Road	5,079	2
In Service	E2194	9071 Willoughby Rd	14,261	3
In Service	E2430	8415 CBRNE Dr	15,314	2
In Service	E2590	8444 30 Street	1,500	3
In Service	E3100	8399 Ricketts Point Road	92,936	1
In Service	E3105	8891 South King Creek Road	2,400	4
In Service	E3107	8908 North King Creek Road	2,447	4
In Service	E3150	8938 North King Creek Road	1,316	1
In Service	E3244	8898 Recruit St	9,206	1
In Service	E3330	8505 Ricketts Point Road	118,680	1
In Service	E3332	8489 Ricketts Point Road	4,141	1
In Service	E3510	8852 Beach Point Road	22,697	1
In Service	E3516	8531 Senate St	63,977	2
In Service	E3612	8917 Beach Point Road	12,106	2
In Service	E3831	8908 Guard St	3,580	4
In Service	E3835	8920 Guard St	32,110	1
In Service	E3928	9023 Medal St		4
In Service	E3934	9007 Medal St	5,153	4
In Service	E3942	9041 Medal St	3,420	4



In Service	E3947	9031 Medal St	1,875	4
In Service	E4060	8337 Wise Road	4,201	4
In Service	E4140	8427 Brigade St	12,480	1
In Service	E4220	8452 Brigade St	12,921	4
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4405	8721 Miles Rd	77,367	4
In Service	E4516	8682 Douglas Road	63,731	2
In Service	E4586	8444 Corporal St	3,495	4
In Service	E4588	8425 Corporal St	3,495	4
In Service	E4594	8421 Douglas Road	3,546	4
In Service	E4595	8415 Douglas Road	4,080	4
In Service	E4903	8596 Jessup Road	2,335	4
In Service	E5158	8252 Blackhawk Road	41,439	4
In Service	E5233	8274 14 <sup>th</sup> St	2,880	4
In Service	E5240	8247 Hoadley Road	7,670	2
In Service	E5390	8237 Laus St	4,770	2
In Service	E5604	8738 34th Street	34,934	3
In Service	E5707	8779 Magnolia Road	23,167	4
In Service	E5830	8587 Quinn Street	36,980	1
In Service	E5864	8132 Brigade St	7,929	1
In Service	E5951	8477 Sharpless Rd	51,526	1
In Service	E6811	9335 Belardi Road	7,971	4
In Service	E7152	8812 Ricketts Point Rd	6,158	4
In Service	E7153	8814 Ricketts Point Rd	6,460	4
In Service	E7225	8885 Watson Creek Rd	3,250	4
In Service	459	7101 Mulberry Point Road	69,469	1
In Service	1124	6083 Moulton Lane	1,315	2
In Service	445	7058 Vice St	7,559	3
In Service	6008	6575 Jayhawk Road	79,875	1
In Service	E1942	8950 Depot Road	20,675	2
In Service	4727	6321 Rodman Road	97,627	2
In Service	4728	6335 Rodman Road	30,125	3
In Service	525	7110 Mulberry Point Road	131,321	1
In Service	310	6859 Civil Rd	15,405	3
In Service	744	6604 Valor Rd	4,351	1
In Service	E5246	8241 Hoadley Road	3,489	3
In Service	322	6382 Johnson St	11,365	3
In Service	3300	6432 Frankford St	32,096	2
In Service	6004	6625 Surveillance Loop	26,479	1
Out of Service	319	6845 Colleran Road	9,509	3
In Service	5115	6642 Pistol Road	1,800	4
In Service	700A	6979 Michaelsville Road	4,274	1

In Service	E1042	9099 Lauderick Creek Road	5,233	3
In Service	E3948	9033 Medal St	2,256	4
In Service	E4222	8442 Brigade St	33,209	N/A
In Service	E4227	8729 Glory St	33,122	N/A
In Service	E4229	8749 Glory St	31,908	N/A
In Service	E4230	8775 Glory St	41,124	4
In Service	E4415	8716 Lietzan Road	20,446	4
In Service	E5060	8799 Magnolia Road	26,463	2
In Service	E5103	8276 Rouse Road	21,481	1
In Service	E5244	8772 Fleming Road	12,334	3
In Service	E5265	8283 Hoadley Road	24,695	3
In Service	10301	777 Priestford Rd	4,970	2

**TECHNICAL EXHIBIT 2U**  
**FPS: MASS NOTIFICATION SYSTEM**  
**Table 2-1. Fire Detection and Alarm System ITM Tasks**

Frequency	Component	Tasks
Annually	1. Fire Alarm Control Panel with Integrated Mass Notification (FMCP)	1. Test to verify proper receipt of signals (inputs) from Local Operating Consoles (LOCs) and the Installation's site-wide system and operation of notification appliances and auxiliary functions (outputs). 2. Verify that all lamps and LEDs are illuminated. 3. Load test backup batteries using a meter (when provided). 4. Verify condition of power supplies and batteries. 5. Resolve any trouble indications.
	2. LOCs	1. Verify station is accessible (visual).
	3. Notification Appliances and Voice Communication (speakers and strobe lights)	1. Test to verify operability.
	4. Text Message Signs	1. Test to verify operability.
2 Years	1. FMCP and LOCs	1. Operate microphone to verify proper operation. 2. Operate all pre-recorded message activation switches to verify proper operation. 3. Operate all notification zone selection switches, if provided, to verify proper operation.

As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: <ul style="list-style-type: none"> <li>a. FMCP and LOCs are not blocked or obstructed.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> </ul> 2. Exercise notification appliances for audibility, clarity, and visibility.
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**NOTE: ITM tasks listed in table 2-1 required for all FMCP locations**

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	ALC 101/ 102 / 103	101 Glenmore Drive		1
In Service	ALC 104	104 Glenmore Drive	1,260	2
In Service	ALC 205	205 Floral Drive		1
In Service	ALC 507	507 Aurora Drive	16,738	2
In Service	ALC 403	403 Kuester Road	5,805	1
In Service	30	6817 Plum Point Drive	58,085	1
In Service	324	6867 Colleran Rd	21,317	2
In Service	328	6321 Gillon Street	63,096	1
In Service	1099	6918 Airbase Loop Road	10,773	2
In Service	2202	6617 Aberdeen Boulevard	151,085	1
In Service	2477	6467 Operations Ave	2,742	3
In Service	2478	6474 Harford Boulevard	8,030	1
In Service	2501	6455 Machine Street	82,998	1
In Service	3090	6690 Raritan Road	98,069	1
In Service	3200	6630 Raritan Road	139,463	1
In Service	4304	6504 Rodman Road	52,590	1
In Service	4311	6499 Integrity Ct	11,965	3
In Service	4401	6472 Integrity Ct	33,308	2
In Service	4402	6468 Integrity Court	36,652	2
In Service	4501	6509 Wayberry Road	37,362	2
In Service	4505	6462 Springfield Street	14,468	2
In Service	4506	6444 Rodman Road	7,549	2
In Service	4510	65524 Wayberry Rd	10,310	1
In Service	4600	6300 Rodman Road	332,167	1
In Service	4603	6340 Rodman Road	35,568	1
In Service	5016	6573 Havre De Grace St	94,131	1
In Service	5116	6597 Reconnaissance Street	29,758	2
In Service	6001	6565 Surveillance Loop	247,951	1
In Service	6002	6585 Surveillance Loop	274,837	1
In Service	6003	6605 Surveillance Loop	265,888	1
In Service	6004	6625 Surveillance Loop	26,479	1
In Service	6005	6630 Surveillance Loop	48,056	1
In Service	6006	6580 Surveillance Loop	265,896	1

In Service	6007	6560 Surveillance Loop	374,475	1
In Service	6008	6575 Jayhawk Road	89,356	1
In Service	6009-6010	6590 Reconnaissance Street	502,587	1
In Service	6011	6540 Boothby Hill Ave	85,762	1
In Service	E1570	8977 Sibert Road	47,027	2
In Service	E1902	8136 Scully Road	12,057	1
In Service	E2188	8270 Cadwalder Road	12,461	4
In Service	E2800	8228 Scully Road	77,473	1
In Service	E2850	8300 Ricketts Point Road	TBD	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2901	8907 North Kings Creek Rd	39,180	1
In Service	E3835-E3836	8920 Guard Street	33,537	1
In Service	E4210	8419 Otto Road	29,816	3
In Service	E4223	8440 Brigade St	9,645	4
In Service	E4811	8661 Jessup Rd	5,136	2
In Service	E5103	8276 Rouse Road	21,481	1
In Service	G8002	11 Lace Road	5,528	3
In Service	G8003	5 Lace Road	6,408	3

**TECHNICAL EXHIBIT 2X**  
**FPS: PRE-ACTION AUTOMATIC**

**Table 2-5. Pre-Action Automatic Sprinkler Systems ITM Tasks**

<b>Frequency</b>	<b>Component</b>	<b>Tasks</b>
Monthly	1. Control Valves (without seal, lock, or electric supervision)	1. Verify proper valve position.
Before the Onset of Freezing Weather	1. Valve and Riser Heated Enclosure (if provided)	1. Verify operability at beginning of heating season.
	2. Low Temperature Alarm	1. Verify initiation and receipt of alarm at the beginning of the heating season.
	3. Low Point Drains	1. Drain all low points before cold weather (if unheated area).
Annually	1. Control Valves (sealed, locked, or electrically supervised)	1. Verify proper valve position.
	2. Water Flow Alarm Devices	1. Operate alarm test valve to verify initiation and receipt of alarm. 2. Verify alarm test valve alignment and tamper switch (if sealed or electrically supervised).
	3. Pre-Action Valve and Trim	1. Inspect the exterior of valves, gauges, trim alignment. 2. Verify valve pressure and legibility of the hydraulic nameplate.

	4. Main Drain	<ol style="list-style-type: none"> <li>1. Conduct a main drain test to verify supply (valve position).</li> <li>2. Document static and residual pressure readings on a 3-inch by 5- inch tag and secure it to the system pressure gauge.</li> <li>3. Compare results with results from previous main drain tests and original acceptance test.</li> <li>4. Verify that the results are within acceptable limits or identify corrective measures.</li> </ol>
	5. Fire Department Connection	<ol style="list-style-type: none"> <li>1. Verify accessibility and condition.</li> <li>2. If caps are removed or missing, check for obstructions.</li> <li>3. Verify system check valve is not leaking.</li> <li>4. Verify gaskets are present.</li> <li>5. Lubricate if swivels do not rotate smoothly.</li> <li>6. Verify proper operation of ball drip drain prior to the cold season.</li> </ol>
2 Years	1. Control Valves	<ol style="list-style-type: none"> <li>1. Operate valve through entire travel to verify function.</li> <li>2. Lubricate valves and stems to ensure operability.</li> <li>3. Verify that valve supervisory switches detect a change in valve position.</li> </ol>
	2. Pre-Action Valve	<ol style="list-style-type: none"> <li>1. Trip to verify proper operation.</li> <li>2. Verify function of manual actuators (if provided).</li> <li>3. Inspect internal condition and clean valve seat before resetting.</li> </ol>
	3. Low Point Drains	<ol style="list-style-type: none"> <li>1. Drain all low points after pre-action valve trip test.</li> </ol>
	4. Air Supply (if present)	<ol style="list-style-type: none"> <li>1. Test the automatic air pressure maintenance device.</li> <li>2. Test the low/high air supply alarms.</li> </ol>
5 Years	1. Strainers	<ol style="list-style-type: none"> <li>1. Clean and inspect the interior to verify condition.</li> </ol>
10 Years	1. Gauges	<ol style="list-style-type: none"> <li>1. Calibrate or replace gauges.</li> </ol>
10 Years, and Every 10 Years Thereafter	1. Dry Sprinklers	<ol style="list-style-type: none"> <li>1. Replace all sprinklers or test a sample of sprinklers to verify response characteristics.<sup>1</sup></li> </ol>
20 Years, and Every 10 Years Thereafter	1. Fast-Response Sprinklers and Extra High Temperature Sprinklers	<ol style="list-style-type: none"> <li>1. Replace all sprinklers or test a sample of sprinklers to verify response characteristics.<sup>1</sup></li> </ol>

50 Years, and Every 10 Years Thereafter	1. Standard Sprinklers	1. Replace all sprinklers or test sample closed-head sprinklers to verify response characteristics. <sup>1</sup>
Following System Modification or Repair	1. Main Drain (following maintenance or repair action requiring the water supply to be shut off)	1. Conduct main drain test to verify supply (valve position). 2. Compare results with results from previous main drain tests and original acceptance test. 3. Verify that the results are within acceptable limits or identify corrective measures. 4. Document static and residual pressure readings on a 3-inch by 5- inch tag and secure it to the system pressure gauge.
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: <ul style="list-style-type: none"> <li>a. Pipe hangers and seismic bracing.</li> <li>b. Sprinklers for obstruction.</li> <li>c. Piping for leaks.</li> <li>d. Riser condition.</li> <li>e. Sprinkler spares.</li> </ul> 2. Ensure: <ul style="list-style-type: none"> <li>a. Manual stations in place and unobstructed.</li> <li>b. Detectors unblocked/uncovered.</li> <li>c. Panels secured and indicator lamps functional.</li> <li>d. Notification appliances in place.</li> </ul>

**Note: A representative sample of sprinklers for testing must consist of one (1) percent of the sprinklers installed of the same type, with a minimum of four (4) sprinklers sampled. The sprinklers must be submitted to a recognized testing laboratory (NRTL) for these tests.**

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER-LEVEL
In Service	ALC 203	203 Glenmore Drive	122,209	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	2484	6460 Harford Blvd	8,313	2
In Service	305	6836 Civil Rd	55,882	1
In Service	305	6836 Civil Rd	55,882	1
In Service	305	6836 Civil Rd	55,882	1
In Service	316	6363 Johnson Rd	19,512	1
In Service	316	6363 Johnson Rd	19,512	1
In Service	367	6908 Mauchly Street	23,481	2
In Service	384C	6946 Main Front Road	17,405	1
In Service	456	6434 Intelligence St	48,499	1
In Service	456	6434 Intelligence St	48,499	1

In Service	4600	6300 Rodman Rd	344,021	1
In Service	6002	6585 Surveillance Loop	276,276	1
In Service	6002	6585 Surveillance Loop	276,276	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6005	6630 Surveillance Loop	48,058	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6260	6260 Guardian Gateway	74,321	N/A
In Service	6280	6280 Guardian Gateway	74,321	N/A
In Service	E4040	8323 Wise Road	12,291	N/A
In Service	E3331	8483 Ricketts Point Road	50,814	1
In Service	6006	6580 Surveillance Loop	276,609	1
In Service	6006	6580 Surveillance Loop	276,609	1
In Service	4304	4304 Susquehanna Avenue	41,904	2
In Service	E1930	8968 Depot Road	30,911	2
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	4600	6300 Rodman Rd	344,021	1

**TECHNICAL EXHIBIT 2Y**  
**FPS: VESDA Laser Plus**

**Table 2-1. Fire Detection and Alarm System ITM Tasks**

Frequency	Component	Tasks
Monthly	1. Control Panels and Annunciator Equipment (unmonitored only)	1. Inspect panel condition (connections, fuses, light-emitting diodes [LEDs]). 2. Resolve any trouble indications.

Annually	1. Control Panel and Annunciator Equipment (monitored)	<ol style="list-style-type: none"> <li>1. Test to verify proper receipt of alarm, supervisory, and trouble signals (inputs, one of each type) and operation of notification appliances and auxiliary functions (outputs, one of each type).</li> <li>2. Verify that all lamps and LEDs are illuminated.</li> <li>3. Load test backup batteries using a meter (when provided).</li> <li>4. Verify condition of power supplies and batteries.</li> <li>5. Resolve any trouble indications.</li> </ol>
	2. Remote Power Supplies and Notification Appliance Circuit Power Extenders	<ol style="list-style-type: none"> <li>1. Verify that all lamps and LEDs are illuminated.</li> <li>2. Load test backup batteries using a meter (when provided).</li> <li>3. Verify condition of power supplies and batteries.</li> </ol>
	3. Initiating Devices:	1. Verify station is accessible (visual).
	a. Manual Fire Alarm Stations	
	b. Radiant Energy-Sensing Detectors (Optical Detectors)	<ol style="list-style-type: none"> <li>1. If used for releasing service, inhibit releasing function.</li> <li>2. Test to verify alarm initiation and receipt.</li> <li>3. Verify that no facility change affects performance.</li> <li>4. Verify alignment of the positioning markings at all adjustment locations.</li> <li>5. If used for releasing service, configure system for automatic operation.</li> <li>6. If used for releasing service, restore to releasing service.</li> </ol>
	c. Gas Detectors	<ol style="list-style-type: none"> <li>1. Test to verify alarm initiation and receipt.</li> <li>2. Verify no facility change that affects performance.</li> </ol>
	d. Carbon Monoxide Detectors	<ol style="list-style-type: none"> <li>1. Test to verify alarm initiation and receipt.</li> <li>2. Verify that no facility change affects performance.</li> </ol>
	4. Notification Appliances and Voice Communication (telephone, speakers, horns, and strobe lights)	1. Test to verify operability.
	5. Digital Alarm Transmitters and Receivers	1. Test to verify operability.
	6. Radio Alarm Transmitters and Receivers	1. Test to verify operability.



2 Years	1. Initiating Devices: a. Manual Fire Alarm Stations	1. Operate to verify alarm receipt.
	b. Heat Detectors (restorable) (Remove devices not required by UFC 3-600-01.)	1. Test with a heat source to verify alarm initiating and receipt. 2. Verify that no facility change affects performance.
	c. Smoke Detectors (single-station detectors, system detectors, and air sampling detectors) (Remove devices not required by UFC 3-600-01 or other directives.)	1. Test with manufacturer-approved smoke simulant to verify smoke entry and alarm initiation and receipt. 2. Verify that no facility change affects performance.
	d. Supervisory Devices (low air pressure, temperature, water level)	1. Test to verify initiation and receipt of supervisory alarm.
	2. Fire Suppression System Releasing and Abort Stations	1. Inhibit releasing function 2. Test to verify proper operation and system response. 3. Configure system for automatic operation. 4. Restore releasing function.
5 Years	1. Smoke Detectors (Remove devices not required by UFC 3-600-01.)	1. Test detector sensitivity to ensure that the detector has remained within its listed and marked sensitivity range (or 4 percent obscuration light gray smoke, if not marked).
10 years	1. Carbon Monoxide Detectors	1. Replace detectors.
	2. Radiant Energy-Sensing Detectors (Optical Detectors)	1. Verify manufacturer's service life for detection elements. UV detection element's normal service life is 10 years; others vary by manufacturer. 2. Replace detectors which have exceeded manufacturer's recommended service life for detection elements.
20 years	1. Smoke Detectors (single-station detectors, and system detectors)	1. Replace detectors.
	2. Air Sampling Smoke Detectors	1. Replace detection element.

	3. Control Panel and Annunciator Equipment	<ol style="list-style-type: none"> <li>1. Verify manufacturer's service life for control elements.</li> <li>2. Verify manufacturer has continued technical and parts support for the specific model.</li> <li>3. Replace control equipment that have exceeded manufacturer's recommended service life limits or if the manufacturer has ceased to provide technical and parts support.</li> </ol>
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	<ol style="list-style-type: none"> <li>1. Visually check:               <ol style="list-style-type: none"> <li>a. Detectors unblocked and uncovered.</li> <li>b. Panels secured and indicator lamps functional.</li> <li>c. Notification appliances in place.</li> <li>d. Manual stations in place and unobstructed.</li> </ol> </li> <li>2. Exercise evacuation notification appliances for audibility, clarity, and visibility.</li> </ol>

**LOCATION:**[illegible]

[illegible]

In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1

**TECHNICAL EXHIBIT 2Z**  
**FPS: WET PIPE SYSTEM**

**Table 2-2. Wet Pipe Sprinkler Systems ITM Tasks**

<b>Frequency</b>	<b>Component</b>	<b>Tasks</b>
Monthly	1. Control Valves (without seal, lock, or electric supervision)	1. Verify proper valve position.
Annually	1. Control Valves (sealed, locked, or electrically supervised)	1. Verify proper valve position.
	2. Water Flow Alarm Devices	1. Verify initiation and receipt of alarm (alternate use of alarm test line and inspectors test connection annually). 2. Verify operation of exterior water flow alarm (if present). 3. Verify alarm test valve alignment and tamper switch (if sealed or electrically supervised).
	3. Alarm Valve and Trim	1. Visually check the exterior of valves, gauges, trim alignment. 2. Verify valve pressure and legibility of the hydraulic nameplate.
	4. Main Drain	1. Conduct a main drain test to verify supply (valve position). 2. Document static and residual pressure readings on a 3-inch by 5-inch tag and secure it to the system pressure gauge. 3. Compare results with results from previous main drain tests and original acceptance test. 4. Verify that the results are within acceptable limits or identify corrective measures.
	5. Fire Department Connection	1. Verify accessibility and condition. 2. If caps are removed or missing, check for obstructions. 3. Verify system check valve is not leaking. 4. Verify Gaskets are present. 5. Lubricate if swivels do not rotate smoothly. 6. Verify proper operation of ball drip drain prior to the cold season.

2 Years	1. Control Valves	1. Operate valve through entire travel to verify function. 2. Lubricate valves and stems to ensure operability. 3. Verify that valve supervisory switches detect a change in valve position.
5 Years	1. Alarm Valve	1. Clean and inspect internally to verify condition.
	2. Anti-freeze Loops	1. Determine solution type. If solution type is no longer permitted or cannot be positively identified, drain system completely and replace with an acceptable solution. 2. Confirm correct solution mixture.
	3. Strainers	1. Inspect internally and clean to good condition.
	4. Automatic Air Release Valve	1. Confirm proper operation.
10 Years	1. Gauges	1. Calibrate or replace gauges.
	2. Dry Barrel Sprinklers	1. Replace all sprinklers. <sup>1</sup>
20 Years	1. Fast Response Sprinklers and Extra High Temperature Sprinklers	1. Replace all. <sup>1</sup>
50 Years, and Every 20 Years Thereafter	1. Standard Sprinklers	1. Replace all sprinklers or test a sample of sprinklers to verify response characteristics. <sup>1</sup>
Following System Modification or Repair	1. Main Drain (following maintenance or repair action requiring the water supply to be shut off)	1. Conduct main drain test to verify supply (valve position). 2. Compare results with results from previous main drain tests and original acceptance test. 3. Verify that the results are within acceptable limits or identify corrective measures. 4. Document static and residual pressure readings on a 3-inch by 5-inch tag and secure it to the system pressure gauge.
As Part of Other Building Inspection (not part of the ITM requirements)	1. Entire System	1. Visually check: <ul style="list-style-type: none"> <li>a. Pipe hangers and seismic bracing.</li> <li>b. Sprinklers for obstruction.</li> <li>c. Piping for leaks.</li> <li>d. Riser condition.</li> <li>e. Verify sprinkler spares.</li> </ul>

**LOCATION:**

STATUS	BUILDING NUMBER (OCCUPANCY)	ADDRESS	SQUARE FOOTAGE	TIER
In Service	ALC 101	101 Glenmore Drive		1
In Service	ALC 106	106 Glenmore Drive	19,910	1

In Service	ALC 106	106 Glenmore Drive	19,910	1
In Service	ALC 112	112 Glenmore Drive	8,738	1
In Service	ALC 112	112 Glenmore Drive	8,738	1
In Service	ALC 203	203 Glenmore Drive	122,209	1
In Service	ALC 202 / 204 / 205	205 Floral Drive	514,657	1
In Service	ALC 202 / 204 / 205	205 Floral Drive	514,657	1
In Service	ALC 202 / 204 / 205	205 Floral Drive	514,657	1
In Service	ALC 207	207 North Avenue	387,516	1
In Service	ALC 207	207 North Avenue	387,516	1
In Service	ALC 207	207 North Avenue	387,516	1
In Service	ALC 207	207 North Avenue	387,516	1
In Service	ALC 500	500 Aurora Drive	53,009	1
In Service	ALC 504	504 Aurora Drive	11,580	1
In Service	ALC 504	504 Aurora Drive	11,580	1
In Service	ALC 504	505 Aurora Drive	11,580	1
In Service	ALC 505	505 Aurora Road	3,789	4
In Service	ALC 507	507 Aurora Drive	16,738	2
In Service	ALC 601	601 Chance Road	46,139	3
In Service	310	6859 Civil Rd	15,405	4
In Service	1059	6878 Cruise Rd	3,680	1
In Service	1060	6870 Cruise Rd	42,575	1
In Service	1060	6870 Cruise Rd	42,575	1
In Service	1060	6870 Cruise Rd	42,575	1
In Service	1099	6918 Airbase Loop Rd	10,500	2
In Service	1103B	7136 Spesutie Island Road	5,000	
In Service	1120B	7160 Spesutie Island Road	6,000	2
In Service	1120C	7158 Spesutie Island Road	6,000	2
In Service	120	6791 Aberdeen Blvd	73,573	1
In Service	2184	6627 Aerospace Rd	14,200	2
In Service	2200	6553 Aberdeen Blvd	11,304	1
In Service	2202	6617 Aberdeen Blvd	151,403	1
In Service	2207	6364 Bayonet Rd	74,389	N/A
In Service	2330	6507 Aberdeen Blvd	3,624	4
In Service	2342	6501 Aberdeen Blvd	17,314	1
In Service	2379	6553 Aberdeen Blvd	9,992	1
In Service	2401	6487 Aberdeen Blvd	63,310	1
In Service	2407	6474 Operations Ave	9,991	1
In Service	248	6907 Mauchly Street	9,203	3
In Service	2482	6462 Harford Blvd	8,477	2
In Service	2484	6460 Harford Blvd	8,313	2
In Service	2485	6441 Rock Island Street	43,020	1
In Service	2485	6441 Rock Island Street	43,020	1
In Service	2503	6431 Advanced Tactics Rd	15,218	3

In Service	2521	6430 Bayside Drive	12,897	1
In Service	2522	6448 Bayside Drive	19,599	1
In Service	2601	6381 Aberdeen Blvd	17,842	3
In Service	262	6761 Trench Warfare Entrance Rd	4,784	2
In Service	262	6761 Trench Warfare Entrance Rd	4,784	2
In Service	263	6765 Trench Warfare Entrance Rd	4,784	2
In Service	2658	6283 Demby Dr	8,425	4
In Service	280A	6793 Trench Warfare Entrance Road	6,000	2
In Service	280B	6795 Trench Warfare Entrance Road	6,606	2
In Service	280C	6797 Trench Warfare Entrance Road	8,719	2
In Service	280D	6789 Trench Warfare Entrance Road	3,485	2
In Service	30	6817 Plumb Point Dr	58,085	1
In Service	30	6817 Plumb Point Dr	58,085	1
In Service	30	6817 Plumb Point Dr	58,085	1
In Service	3074	6662 Raritan Avenue	54,282	2
In Service	3090	6690 Raritan Avenue	98,860	1
In Service	3147	6635 Raritan Avenue	31,291	1
In Service	3148	6407 Bayonet Rd	28,371	1
In Service	316	6363 Johnson Rd	19,512	1
In Service	316	6363 Johnson Rd	19,512	1
In Service	320	6367 Johnson Rd	41,552	2
In Service	320	6367 Johnson Rd	41,552	2
In Service	321	6375 Johnson Rd	35,806	2
In Service	321	6375 Johnson Rd	35,806	2
In Service	321	6375 Johnson Rd	35,806	2
In Service	324	6867 Colleran Rd	21,317	2
In Service	3245	6554 Colleran Rd	1,280	4
In Service	325	6887 Colleran Rd	1,578	3
In Service	327	6895 Civil Rd	10,505	2
In Service	3326	6432 Ashbury St	2,184	1
In Service	3330	6490 Raritan Avenue	118,680	4
In Service	337	6927 Goldstine Drive	1,152	2
In Service	338	6910 Civil Rd	45,291	1
In Service	338A	6901 Goldstine Drive	6,064	1
In Service	338C	6902 Goldstine Drive	6,000	2
In Service	342	6359 Gillon Road	16,505	2
In Service	346	6361 Gallon Road	4,306	3
In Service	346	6361 Gallon Road	4,306	3
In Service	3554	6435 Adle Road	18,655	3
In Service	3556	6421 Adle Road	9,000	2
In Service	360	6873 Lanyard Road	15,482	2
In Service	3660	6456 Hancock Dr	50,602	1
In Service	3660	6456 Hancock Dr	50,602	1

[illegible]



In Service	4600	6300 Rodman Rd	344,021	1
In Service	4600	6300 Rodman Rd	344,021	1
In Service	4600	6300 Rodman Rd	344,021	1
In Service	4603	6340 Rodman Rd	35,568	1
In Service	460B	6329 Intelligence St	4,800	2
In Service	4725	6259 Bomb Loop	14,165	2
In Service	4725A	6257 Bomb Loop	3,554	2
In Service	5100	6631 Cyber St	109,607	1
In Service	5110	6638 Pistol Road	11,293	1
In Service	5116	6597 Reconnaissance St	29,192	2
In Service	517	7135 Mulberry Point Road	10,864	2
In Service	5701	6244 Visitors Ln	2,000	2
In Service	6000	6555 Surveillance Loop	18,206	1
In Service	6001	6565 Surveillance Loop	248,404	1
In Service	6002	6585 Surveillance Loop	276,276	1
In Service	6003	6605 Surveillance Loop	259,322	1
In Service	6005	6630 Surveillance Loop	48,058	1
In Service	6007	6560 Surveillance Loop	379,423	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6010	6590 Reconnaissance Rd	547,041	1
In Service	6011	6540 Boothby Hill Ave	80,571	1
In Service	6011	6540 Boothby Hill Ave	80,571	1
In Service	6011	6540 Boothby Hill Ave	80,571	1
In Service	606	7254 Antiaircraft Loop	2,226	3
In Service	608	7248 Antiaircraft Loop	6,103	3
In Service	610	7240 Antiaircraft Loop	4,456	
In Service	6160	6060 Guardian Gateway	21,080	N/A
In Service	6165	6165 Guardian Gateway	51,120	N/A
In Service	6165	6165 Guardian Gateway	51,120	N/A
In Service	6170	6170 Guardian Gateway	25,160	N/A
In Service	6175	6175 Guardian Gateway	54,120	N/A
In Service	6175	6175 Guardian Gateway	54,120	N/A
In Service	6180	6180 Guardian Gateway	29,410	N/A
In Service	6190	6190 Guardian Gateway	72,605	N/A
In Service	6200	6200 Guardian Gateway	72,605	N/A
In Service	6210	6210 Guardian Gateway	72,605	N/A
In Service	6240	6240 Guardian Gateway	59,977	N/A
In Service	6245	6245 Guardian Gateway	31,280	N/A
In Service	6260	6260 Guardian Gateway	74,321	N/A
In Service	6280	6280 Guardian Gateway	74,321	N/A
In Service	638	7358 Antiaircraft Loop Road	4,295	3

In Service	688	7114 Plate Range Road	24,192	1
In Service	689	7104 Plate Range Road	11,117	2
In Service	690	7098 Plate Range Road	13,228	1
In Service	699	6619 Surveillance Range Road	12,028	1
In Service	700G	6981 Michaelsville Road	4,028	1
In Service	714F	6934 Michaelsville Road	4,800	1
In Service	714G	6938 Michaelsville Road	4,800	1
In Service	717	6860 Shell Street	5,824	1
In Service	717	6860 Shell Street	5,824	1
In Service	737D	6647 Valor Rd	4,324	4
In Service	851	6492 Rifle Range Rd	8,425	4
In Service	893	7190 Gun Mount Test Rd	1,000	1
In Service	895	6220 Palmer Rd	5,238	4
In Service	895A	6212 Palmer Rd	5,238	2
In Service	906C	6618 Fords Farm Road	6,960	2
In Service	922A	7541 Live Fire Lane	7,299	2
In Service	E4040	8323 Wise Road	12,291	N/A
In Service	E4040	8323 Wise Road	12,291	N/A
In Service	700A	6760 Radar Rd	4,274	1
In Service	E4039	8315 Wise Rd	2,542	N/A
In Service	6006	6580 Surveillance Loop	267,609	1
In Service	363	6901 Lanyard Road	10,638	1
In Service	383A	6914 Main Front Road	2,863	1
In Service	5014	6696 Boothby Hill Road	88,631	1
In Service	3400	6444 Aberdeen Blvd	68,252	2
In Service	E1042	9099 Lauderick Creek Road	5,233	3
In Service	E1043	9105 Lauderick Creek Road	5,245	3
In Service	E1401	8901 Balisage St	13,368	2
In Service	E1570	8977 Sibert Road	1,024	2
In Service	E1645	8062 Lull Road	3,591	2
In Service	E1901	8116 Scully Road	9,636	1
In Service	E1902	8136 Scully Road	12,054	1
In Service	E1930	8968 Depot Road	30,911	2
In Service	E1947	8939 Schaefer Road	12,719	2
In Service	E2100	8988 Willoughby Rd	66,901	1
In Service	E2162	9068 19 <sup>th</sup> St	12,477	4
In Service	E2400	9088 21st Street	41,062	1
In Service	E2410	8391 Dirk Dr	11,200	2
In Service	E2430	8415 CBRNE Dr	15,314	2
In Service	E2433	8428 CBRNE Dr	9,204	2
In Service	E2590	8444 30th Street	1,500	3
In Service	E2800	8228 Scully Rd	77,298	1
In Service	E2800	8228 Scully Rd	77,298	1

In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
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In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2900	8350 Ricketts Point Road	526,200	1
In Service	E2901	8907 North Kings Creek Rd	39,180	1
In Service	E2901	8907 North Kings Creek Rd	39,180	1
In Service	E2901	8907 North Kings Creek Rd	39,180	1
In Service	E2901	8907 North Kings Creek Rd	39,180	1
In Service	E3107	8908 North Kings Road	2,447	4
In Service	E3150	8938 North Kings Road	188,266	1
In Service	E3330	8505 Ricketts Point Road	118,680	1
In Service	E3400	8510 Ricketts Point Rd	176,451	1
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3401	8490 Ricketts Point Road	41,559	1
In Service	E3516	8531 Senate St	63,977	2
In Service	E3516	8531 Senate St	63,977	2
In Service	E3525	8536 Senate St	2,175	2
In Service	E3526	8560 Ricketts Point Road	2,880	4
In Service	E3548	8559 Ricketts Point Road	5,633	4
In Service	E3551	8557 Ricketts Point Road	5,701	4
In Service	E3560	8912 Beach Point Road	2,160	1
In Service	E3726	8975 Master St	7,320	1
In Service	E3835	8920 Guard St	32,110	1
In Service	E3844	8921 Guard St	6,020	1
In Service	E3928	9023 Medal St		4

In Service	E3931	9000 Medal St	3,200	4
In Service	E3934	9007 Medal St	5,153	4
In Service	E3947	9031 Medal St	1,875	4
In Service	E4010	8229 Wise Road	8,147	2
In Service	E4060	9337 Wise Road	4,201	N/A
In Service	E4081	8361 Wise Road	136,646	N/A
In Service	E4081	8361 Wise Road	136,646	N/A
In Service	E4110	8457 Brigade St	13,711	1
In Service	E4140	8427 Brigade St	12,480	1
In Service	E4210	8419 Otto Road	29,816	3
In Service	E4210	8419 Otto Road	29,816	3
In Service	E4215	8456 Brigade St	42,471	2
In Service	E4220	8452 Brigade St	12,921	N/A
Out of Service	E4223	8440 Brigade St	9,645	4
In Service	E4224	8403 Wise Road	4,878	1
In Service	E4225	8424 Otto Road	14,015	N/A
In Service	E4230	8775 Glory St	41,124	4
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4301	8500 Otto Road	289,401	1
In Service	E4305	8451 Nike Rd	77,367	N/A
In Service	E4430	8705 Lietzan Road	16,667	4
In Service	E4516	8682 Douglas Road	63,731	2
In Service	E4516	8682 Douglas Road	63,731	2
In Service	E4588	8425 Corporal St	3,495	4
In Service	E4590	8664 Douglas Rd	3,582	4
In Service	E4594	8421 Douglas Rd	3,546	4
In Service	E4595	8415 Douglas Rd	4,080	4
In Service	E4620	8370 Brigade St	13,928	2
In Service	E4900	8602 Jessup Road	14,830	1
In Service	E4902	8599 Jessup Roaed	15,338	1
In Service	E5908	8104 Hoadley Road	2,100	4
In Service	E5027	8193 Blackhawk Road	23,490	3
In Service	E5027	8193 Blackhawk Road	23,490	3
Out of Service	E5100	8820 Fleming Road	29,852	1
In Service	E5101	8222 Hoadley Road	69,674	1

In Service	E5140	8791 Fleming Road	12,529	3
In Service	E5158	8252 Blackhawk Road	41,493	4
In Service	E5183	8198 Blackhawk Road	12,305	3
In Service	E5185	8784 32nd Street	161,689	1
In Service	E5185	8784 32nd Street	161,689	1
In Service	E5185	8784 32nd Street	161,689	1
In Service	E5185	8784 32nd Street	161,689	1
In Service	E5185	8784 32nd Street	161,689	1
In Service	E5185	8784 32nd Street	161,689	1
In Service	E5233	8274 14 <sup>th</sup> St	2,880	4
In Service	E5234	8270 14th Street	15,889	4
In Service	E5265	8283 Hoadley Road	24,695	3
In Service	E5390	8237 Laus St		2
In Service	E5560	8224 35th Street	9,873	1
In Service	E5840	8640 42nd Street	16,602	4
In Service	E5864	8132 Brigade St	7,929	1
In Service	E5866	8150 Brigade St	7,929	1
In Service	E6700	258 Lauderick Creek Rd	9,617	4
In Service	E6811	9335 Belardi Road	7,971	4
In Service	E5180	8218 Hoadley Rd	14,741	1
In Service	10301	773 Priestford Rd	4,940	2
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	6009	6580 Reconnaissance Street	56,494	1
In Service	394	6925 Mauchly Street	57,176	1
In Service	394	6925 Mauchly Street	57,176	1
In Service	6008	6575 Jayhawk Road	79,875	1
In Service	E1942	8950 Depot Road	20,675	2
In Service	4727	6321 Rodman Road	97,672	2
In Service	4728	6335 Rodman Road	30,125	3
In Service	E5246	8241 Hoadley Road	3,489	3
In Service	3300	6432 Frankford St	32,096	2
In Service	331	6337 Gillon St	16,883	1
In Service	1074	6256 Woodrow St	4,404	1
In Service	6004	6625 Surveillance Loop	26,479	1
In Service	1065	6882 Cruise Rd	11,242	1
In Service	330	6335 Gillon St	8,729	1
Out of Service	1049	6087 Cruise Rd	6,000	4
In Service	248	6907 Mauchly Street	9,203	3
In Service	4218	6471 Frankford St	42,888	3
In Service	450	7118 Caisson St	26,063	3
In Service	450	7118 Caisson St	26,063	
In Service	4600	6300 Rodman Rd	34,402	1

In Service	5016	6573 Havre de Grace Street	93,668	2
In Service	5046	6544 Havre de Grace Street	92,486	2
In Service	5046	6544 Havre de Grace Street	92,486	2
In Service	E1950	8965 Schaefer Road	20,863	2
In Service	E1950	8965 Schaefer Road	20,863	2
In Service	E2390	9173 27th Street	11,474	2
In Service	E2556	9098 Willoughby Rd	1,450	4
In Service	E2650	9180 Willoughby Rd	2,236	4
In Service	E3580	8958 Beach Point Road	8,416	1
In Service	E4460	8685 Glory St	17,606	3
In Service	E5232	8792 Fleming Road	7,348	4
In Service	E5244	8772 Fleming Road	12,334	3
In Service	439	7003 Mulberry Point Road	7,015	3
In Service	600	7251 Antiaircraft Loop	3,980	2

**\*\*Buildings listed in Exhibit 2 are subject to change throughout the POP, and will change as buildings are demolished and developed**

### Technical Exhibit 3 – Transmitters With Tier Levels

#### (T/E 3 A) King Fisher Transmitters Aberdeen Area

LEGEND: TIER 1 TIER 2 TIER 3 TIER 4

ABERDEEN AREA		FIRE ALARM ITM TIER PLAN			
KF SYSTEM NUMBER	BUILDING NUMBER	SYSTEM TYPE	STATUS	LOCATION	TIER
112	45	COMBO	IN USE		4
031	237	COMBO	IN USE		3
179	241	COMBO	IN USE		3
281	242	COMBO	IN USE		3
282	243	COMBO	IN USE		3
143	246	COMBO	IN USE		3
226	247	COMBO	IN USE		3
085	248	IRAC	IN USE		3
219	262	STAR	IN USE		2
220	263	STAR	IN USE		2
720	276	COMBO	IN USE	Telephone Hut	2
599	310	IRAC	IN USE		4
014	320	COMBO	IN USE		2
015	321	COMBO	IN USE		2
229	322	IRAC	IN USE		3
303	325	IRAC	IN USE		3
209	327	IRAC	IN USE		2
	330-331	IRAC	IN USE		3
020	337	COMBO	IN USE		2
021	342	IRAC	IN USE		2
009	346	IRAC	IN USE		3

043	360	IRAC	IN USE		2
016	366		IN USE	New Install	3
148	367	STAR	IN USE		2
022	372	COMBO	IN USE		3
181	433	COMBO	IN USE		3
242	434	COMBO	IN USE		3
172	445	IRAC	IN USE		3
033	450	COMBO	IN USE		3
094	453	STAR	IN USE		3
037	507	COMBO	IN USE		1
038	507	COMBO	IN USE		1
039	507	COMBO	IN USE		1
040	507	COMBO	IN USE		1
237	606	IRAC	IN USE		3
069	607	IRAC	IN USE		3
188	638	IRAC	IN USE		3
260	643	IRAC	IN USE		3
284	667	IRAC	IN USE		3
278	668	IRAC	IN USE		3
168	689	IRAC	IN USE		2
005	691	COMBO	IN USE		3
196	745	IRAC	IN USE		3
243	851	IRAC	IN USE		4
047	860	COMBO	IN USE		2
048	861	COMBO	IN USE		2
142	922	COMBO	IN USE		2
142	922	STAR	IN USE		4
264	923	IRAC	IN USE		4
134	924	STAR	IN USE		4
140	936	COMBO	IN USE		3
136	937	COMBO	IN USE		2
249	983	IRAC	IN USE		2
247	1046	COMBO	IN USE		2
007	1055	COMBO	IN USE		3
744	1055	COMBO	IN USE		3
279	1056	IRAC	IN USE		3
227	1068	COMBO	IN USE		4
304	1105	COMBO	IN USE		2
052	1114	COMBO	IN USE		2
116	1121	STAR	IN USE		2
288	1124	IRAC	IN USE		2
129	1134	COMBO	IN USE		2
285	1145	IRAC	IN USE		2
132	1151	IRAC	IN USE		2
283	1170	IRAC	IN USE		2
289	1171	COMBO	IN USE		2
169	1175	IRAC	IN USE		2
747	1193	IRAC	IN USE		2
234	1196	IRAC	IN USE		2

180	2001	IRAC	IN USE		4
228	2006	COMBO	IN USE		4
190	2031	COMBO	IN USE		4
055	2050	COMBO	IN USE	RV Park	2
059	2184	COMBO	IN USE		3
062	2207	IRAC	IN USE	No Inspection	4
064	2208	COMBO	IN USE	No Inspection	4
065	2209	COMBO	IN USE	No Inspection	4
093	2308	COMBO	IN USE		4
123	2333	COMBO	IN USE		2
189	2338	COMBO	IN USE		2
200	2453	IRAC	IN USE		4
150	2458	COMBO	IN USE		4
149	2477	COMBO	IN USE	Building 2477	3
296	2482	IRAC	IN USE		2
074	2484	COMBO	IN USE		2
073	2503	COMBO	IN USE		4
141	2514	COMBO	IN USE		2
076	2601	COMBO	IN USE		3
114	2658	COMBO	IN USE		4
742	2727	COMBO	IN USE	Housing Office No Inspection	4
723	3000	COMBO	IN USE	Telephone Hut	1
078	3072	COMBO	IN USE		1
727	3240	COMBO	IN USE		4
724	3323	COMBO	IN USE	Telephone Hut	4
268	3325	IRAC	IN USE		4
263	3409	COMBO	IN USE		4
051	3410	COMBO	IN USE		4
280	3554	COMBO	IN USE		3
090	3556	COMBO	IN USE		2
109	3558	COMBO	IN USE		3
092	4019	COMBO	IN USE		4
272	4117	IRAC	IN USE		2
096	4118	COMBO	IN USE		2
091	4119	COMBO	IN USE		2
097	4120	COMBO	IN USE		2
098	4210	COMBO	IN USE		3
201	4213	IRAC	IN USE		3
102	4218	IRAC	IN USE		3
103	4219	COMBO	IN USE		3
104	4220	IRAC	IN USE		3
105	4302	COMBO	IN USE		2
100	4303	COMBO	IN USE		2
044	4308	COMBO	IN USE		3
174	4309	IRAC	IN USE		3
171	4310	IRAC	IN USE		3



173	4311	IRAC	IN USE		3
212	4312	COMBO	IN USE		3
165	4313	IRAC	IN USE		4
161	4314	IRAC	IN USE		4
202	4315	IRAC	IN USE		4
167	4403	IRAC	IN USE		2
170	4501	IRAC	IN USE		2
158	4503	COMBO	IN USE		2
151	4505	IRAC	IN USE		2
155	4506	COMBO	IN USE		2
154	4508	IRAC	IN USE		2
217	4725	IRAC	IN USE		2
241	5015	COMBO	IN USE		3
138	5016	COMBO	IN USE		2
261	5046	COMBO	IN USE		2
186	5111	IRAC	IN USE		4
240	5115	IRAC	IN USE		4
139	5116	COMBO	IN USE		2
254	5701	COMBO	IN USE	Gate 715 Visitors Center	2
335	6160	STAR		No Inspection	N/A
312	6165	STAR		No Inspection	N/A
321	6170	STAR		No Inspection	N/A
314	6175	STAR		No Inspection	N/A
327	6180	STAR		No Inspection	N/A
748	6190	COMBO		No Inspection	N/A
749	6200	COMBO		No Inspection	N/A
750	6210	COMBO		No Inspection	N/A
305	6240	COMBO	IN USE	No Inspection	N/A
310	6245	STAR		No Inspection	N/A
309	6260	COMBO	IN USE	No Inspection	N/A
108	10521	COMBO	IN USE		2
743	1058A	COMBO	IN USE	AB 7 Tilt Table	4
299	1089A	COMBO	IN USE		2
072	1100D	COMBO	IN USE		2
166	1100H	IRAC	IN USE		2
184	1106A	COMBO	IN USE		2
060	1116A	COMBO	IN USE		2
215	1119B	IRAC	IN USE		2
156	1134B	COMBO	IN USE		2
046	1145C	COMBO	IN USE	Outside wall R-7 Spesutie Island	2
216	1150B	IRAC	IN USE		2
938	2501T	COMBO	IN USE	TEMP TRAILER FOR KIRK	1
259	269-1T	COMBO	IN USE		3
248	269E	IRAC	IN USE		2

287	280A	IRAC	IN USE		2
270	280B	IRAC	IN USE	Vehicle Maintenance	2
256	280C	COMBO	IN USE		2
019	330-331	COMBO	IN USE		2
265	338A	IRAC	IN USE		2
258	338C	IRAC	IN USE		2
118	3604 & 3604A	COMBO	IN USE	No Inspection	N/A
236	368V	COMBO	IN USE	Barricade B-1	2
238	381V	COMBO	IN USE	Barricade B-2	2
246	382V	COMBO	IN USE	Barricade B-3	2
277	383C	IRAC	IN USE		1
117	383F	IRAC	IN USE		1
018	390A	COMBO	IN USE		2
122	400B	IRAC	IN USE		3
740	450A	COMBO	IN USE		3
162	450B	star	IN USE		3
239	451A	IRAC	IN USE		2
245	459A	COMBO	IN USE		2
244	460A	COMBO	IN USE		2
250	460B	IRAC	IN USE		2
088	4725A	COMBO	IN USE		2
185	5608A	COMBO	IN USE		4
115	5608B	COMBO	IN USE		4
292	640B	COMBO	IN USE		4
042	686A	COMBO	IN USE		4
054	736 / 733A	COMBO	IN USE		4
291	737B	IRAC	IN USE		4
286	737D	IRAC	IN USE		4
210	743A	COMBO	IN USE		2
302	800A	IRAC	IN USE		2
324	906A	COMBO	IN USE		2
324	906A	COMBO	IN USE		4
113	906C	STAR	IN USE		2
087	922 E2	COMBO	IN USE		2
063	922 E5	COMBO	IN USE		2
555	Delete				
311	trailer at 309	COMBO	IN USE		

**(T/E 3 B) King Fisher Transmitters Edgewood Area**

<b><u>EDGEWOOD AREA</u></b>		<b>FIRE ALARM ITM TIER PLAN</b>			
<b>KF SYSTEM NUMBER</b>	<b>BUILDING NUMBER</b>	<b>SYSTEM TYPE</b>	<b>STATUS</b>	<b>LOCATION</b>	<b>TIE R</b>
849	E1042	IRAC	IN USE		3
795	E1043	COMBO	IN USE		3
977	E1260	COMBO	IN USE		4

886	E1407	IRAC	IN USE		4
905	E1457	IRAC	IN USE		3
808	E1458	COMBO	IN USE		3
861	E1459-2T -E1458 -1T- E1491-1T	IRAC	IN USE		3
857	E1476 - E1474	IRAC	IN USE		3
	E1502	IRAC	IN USE	JLENS	2
	E1503	IRAC	IN USE	JLENS	2
903	E1645	COMBO	IN USE		2
904	E1675	COMBO	IN USE		2
927	E1677	COMBO	IN USE		2
850	E1930	IRAC	IN USE		2
847	E1942	IRAC	IN USE		2
856	E1946	IRAC	IN USE		2
831	E1947	COMBO	IN USE		2
974	E1950	COMBO	IN USE		2
971	E2160	COMBO	IN USE		4
911	E2162	COMBO	IN USE		4
912	E2168	COMBO	IN USE		4
913	E2180 - E2182	COMBO	IN USE		3
873	E2187	IRAC	IN USE		2
790	E2193	COMBO	IN USE		4
892	E2194	IRAC	IN USE		3
915	E2196 - E2198	COMBO	IN USE		4
950	E2200	COMBO	IN USE		4
940	E2390	COMBO	IN USE		2
854	E2410	COMBO	IN USE		2
826	E2430	IRAC	IN USE		2
842	E2433	COMBO	IN USE		2
985	E2556	COMBO	IN USE		1
844	E2590	IRAC	IN USE		3
745	E2899	COMBO	IN USE		4
917	E3100	IRAC	IN USE		1
883	E3103 - E3106	COMBO	IN USE		4
918	E3104	COMBO	IN USE		4
893	E3105	IRAC	IN USE		4
827	E3107	IRAC	IN USE		4
925	E3109	COMBO	IN USE		2
997	E3161	COMBO	IN USE		2
922	E3224 - E3226	COMBO	IN USE		3
923	E3240	COMBO	IN USE		3
879	E3244	IRAC	IN USE		1
867	E3300	COMBO	IN USE	NO ENTRY	4
995	E3326	COMBO	IN USE		3
936	E3375	COMBO	IN USE		4
783	E3461	COMBO	IN USE		1
978	E3524	COMBO	IN USE		2
930	E3525	COMBO	IN USE		2
791	E3526	COMBO	IN USE		4

845	E3548 - E3551	COMBO	IN USE		4
989	E3552	COMBO	IN USE		4
987	E3607	COMBO	IN USE		3
860	E3724	IRAC	IN USE		4
798	E3728	COMBO	IN USE		2
929	E3830	COMBO	IN USE		4
775	E3857	COMBO	IN USE		3
815	E3928	IRAC	IN USE		4
980	E3931	COMBO	IN USE		4
843	E3934	IRAC	IN USE		4
882	E3941 - E3938	COMBO	IN USE		4
875	E3942	COMBO	IN USE		4
888	E3947	IRAC	IN USE		4
864	E4010	COMBO	IN USE		2
832	E4039	IRAC	IN USE	No Inspection MDNG	N/A
839	E4040	IRAC	IN USE	No Inspection MDNG	N/A
782	E4060	IRAC	IN USE	No Inspection MDNG	N/A
928	E4210	COMBO	IN USE		3
898	E4215	COMBO	IN USE		2
891	E4220	IRAC	IN USE	No Inspection MDNG	N/A
828	E4223	COMBO	IN USE		4
863	E4410		IN USE		4
943	E4415	COMBO	IN USE		4
944	E4420	COMBO	IN USE		4
931	E4430	COMBO	IN USE		4
881	E4435	COMBO	IN USE		4
982	E4445	COMBO	IN USE		4
874	E4455	COMBO	IN USE		4
899	E4460	IRAC	IN USE		3
984	E4460	COMBO	IN USE		3
878	E4465	COMBO	IN USE		3
779	E4470	COMBO	IN USE		3
993	E4475	COMBO	IN USE		3
946	E4480	COMBO	IN USE		3
785	E4500	COMBO	IN USE		4
806	E4510T				4
996	E4517	COMBO	IN USE		4
824	E4525	COMBO	IN USE		2
986	E4586	COMBO	IN USE		4
853	E4588	IRAC	IN USE		4
812	E4594	IRAC	IN USE		4
813	E4595	IRAC	IN USE		4
948	E4620	COMBO	IN USE		2
988	E4650	COMBO	IN USE		4
907	E4655	COMBO	IN USE		4
825	E4810	COMBO	IN USE		2
770	E4811	COMBO	IN USE		2

951	E4900	COMBO	IN USE		1
841	E4902	COMBO	IN USE		1
837	E4903	IRAC	IN USE		4
810	E5002	COMBO	IN USE		4
746	E5908	COMBO	IN USE		4
952	E5027	COMBO	IN USE		3
954	E5057	COMBO	IN USE		2
818	E5058	COMBO	IN USE		2
955	E5061	COMBO	IN USE		2
991	E5106	COMBO	IN USE		4
799	E5141	IRAC	IN USE		4
851	E5158	IRAC	IN USE		4
959	E5165	COMBO	IN USE		3
960	E5179	COMBO	IN USE		3
961	E5183	COMBO	IN USE		3
962	E5185	COMBO	IN USE		1
963	E5185	COMBO	IN USE		1
964	E5188	COMBO	Not installed		4
866	E5232	COMBO	IN USE		4
781	E5233	IRAC	IN USE		4
958	E5236	COMBO	IN USE		2
973	E5244	IRAC	IN USE		3
835	E5246	IRAC	IN USE		3
968	E5265	IRAC	IN USE		3
979	E5286	COMBO	IN USE		4
829	E5311	COMBO	IN USE		4
771	E5352	COMBO	Not installed		4
773	E5354	STAR	IN USE		
869	E5354	COMBO	Not installed		3
969	E5360	COMBO	IN USE		3
939	E5390	IRAC	IN USE		2
862	E5427 - E5425	COMBO	IN USE		3
970	E5560	COMBO	IN USE		1
786	E5600	COMBO	IN USE		4
889	E5604	IRAC	IN USE		3
992	E5641	COMBO	IN USE		4
972	E5654	COMBO	IN USE		3
975	E5703 - E5707	COMBO	IN USE		4
976	E5800	COMBO	IN USE		3
796	E5803	COMBO	IN USE		4
834	E5840	COMBO	IN USE		4
865	E5863	COMBO	IN USE		4
794	E6700	COMBO	IN USE	No Inspection MFRI	
793	E6811	IRAC	IN USE		4
838	E7225	IRAC	IN USE		4
787	E7239	COMBO	IN USE		4
816	Reserved	COMBO	IN USE		N/A

010	Test Chip	COMBO	FA Test Code		N/A
551	Test Chip	IRAC	F/A Test Code		N/A
556	Test Chip	COMBO	F/A Test Code		N/A

LEGEND: TIER 1 TIER 2 TIER 3 TIER 4

(T/E 3 C) AES Transmitters Aberdeen Area

<div> <div>ABERDEEN AREA</div> <div>FIRE ALARM ITM TIER PLAN</div> </div>					
AES NUMBER	BUILDING NUMBER	SYSTEM TYPE	STATUS	LOCATION	TIER
4000	315	NOTIFIER NFS-2 640	IN USE		1
4001	350 / 352	GAMEWELL FLEX 404	IN USE		2
4002	431	KF COMBO	IN USE		3
4003	2342	FIRE LITE MS-4	IN USE		1
4022	436	FIRE-LITE MS-10UD	IN USE		2
4005	501	NOTIFIER AFP-200	IN USE		1
4006	669	KF COMBO	IN USE	Telephone Hut	1
4007	30	FIRE-LITE MS-9200UDLS	IN USE		1
4008	6004	NOTIFIER NFS-2 640	IN USE		1
4009	4603	SIEMENS XLS	IN USE		1
4011	3070	KIDDIE AEGIS	IN USE		4
4010	2478	NOTIFIER NFS-2 640	IN USE		1
4004	4316	NOTIFIER NFS-2 640	IN USE		4
4012	459	NOTIFIER NFS-2 640	IN USE		1
4013	690	KF IRAC	IN USE		1
4014	699	KF COMBO	IN USE		1
4015	717	NOTIFIER NFW	IN USE		1
4016	2202	SIEMENS XLS	IN USE	ATEC HQ	1
4017	2521	FIRE-LITE MS-9200UDLS	IN USE		1
4018	2522	NOTIFIER NFS-2 640	IN USE		1
4020	4600	NOTIFIER NFS-2 3030	IN USE		1
4021	5100	SIEMENS XLS	IN USE		1
4028	400	FIRE-LITE MS-9200UDLS	IN USE		1
4029	338 / 338A	NOTIFIER NFW2-100	IN USE		1
4030	384C	SILENT KNIGHT SK5208	IN USE		1
4031	394	NOTIFIER NFS-2 640	IN USE		1
4032	1043	RB 12/24 LOCAL	IN USE	PAA Pump House	1
4033	1060	FIRE-LITE MRP-2002	IN USE	PAA	1
4034	1099	NOTIFIER NFS-2 640	IN USE		2
4035	1100F	FIRE-LITE MS-10UD	IN USE		2
4036	1120C	KF IRAC	IN USE		2
4037	2485 / 2486	FIRE-LITE MS-10UD	IN USE		1
4038	2501	NOTIFIER NFS-2 640	IN USE		1
4039	5600	FIRE-LITE MS-9200UDLS	IN USE		3
4040	120	SIEMENS FS-250	IN USE		1
4041	269D	EST 2400	IN USE		2
4042	744	KF IRAC	IN USE		1

4043	390	FIRE-LITE MS-9200UDLS	IN USE		1
4044	305	KF IRAC	IN USE		1
4045	402	KF IRAC	IN USE		2
4046	3300	NOTIFIER SYSTEM 5000	IN USE		2
4047	3330	NOTIFIER NFS-2 640	IN USE		4
4048	5014	KF IRAC	IN USE		1
4049	463	KF IRAC	IN USE		2
4055	6000	NOTIFIER NFS-2 3030	IN USE		1
4056	6001	NOTIFIER NFS-2 3030	IN USE		1
4057	6002	NOTIFIER NFS-2 3030	IN USE		1
4058	6003	NOTIFIER NFS-2 3030	IN USE		1
4059	6005	NOTIFIER NFS-2 3030	IN USE		1
4060	6006	NOTIFIER NFS-2 3030	IN USE		1
4061	6007	NOTIFIER NFS-2 3030	IN USE		1
4062	6008	NOTIFIER NFS-2 3030	IN USE		1
4065	6009 / 6010	SIEMENS XLSV	IN USE		1
4064	6011	SIEMENS XLSV	IN USE		1
4066	740D	NAPCO MA3000	IN USE		1
4054	937B	FIRE-LITE MS-5UD	IN USE		1
4024	774A	KF COMBO	IN USE		1
4027	895	KF COMBO	IN USE		4
4050	770	NO SYSTEM AES LOCAL	IN USE		1
4051	4305	EST LSS4	IN USE		1
4094	4125	NOTIFIER NFS-2 640	IN USE		1
4096	250	NOTIFIER NFS-2 640	IN USE		1
4097	4304	NOTIFIER NFS-2 3030	IN USE		2
4099	309	KF COMBO	IN USE		1
4100	311	FIRE-LITE MS-2410UD	IN USE		1
4101	316	NOTIFIER NFS-2 640	IN USE		1
4102	319	KF IRAC	IN USE		3
4117	895A	KF IRAC	IN USE		2
4104	324	KF IRAC	IN USE		2
4105	349	FIRE-LITE MS-2410UD	IN USE		3
4106	358	FIRE-LITE MINISCAN 424A	IN USE		2
4128	359	NOTIFIER NFS-2 320	IN USE		2
4107	363	FIRE-LITE MINISCAN 424A	IN USE		1
4108	392	FIRE-LITE MINISCAN 424A	IN USE		2
4109	393	FSC FIRELARM 3000	IN USE		2
4110	456	KF COMBO	IN USE		1
4111	517	SILENT KNIGHT IFP-100	IN USE		2
4112	608	KF IRAC	IN USE		3
4113	525	KF IRAC	IN USE		1
4114	526A	KF COMBO	IN USE		2
4115	609	KF IRAC	IN USE		3
4116	922A	KF COMBO	IN USE		2
4103	893	FIRE-LITE MS-10UD	IN USE		1
4123	G8002	NOTIFIER NFS-2 3030	IN USE		1

4127	G8003	NOTIFIER NFS-2 3030	IN USE		1
4151	4401	NOTIFIER NFS-2 640	IN USE		2
4152	4402	NOTIFIER NFW2-100	IN USE		2
4153	1067	KF IRAC	IN USE		1
4154	1074	FIRE-LITE MS-5UD	IN USE		1
4155	2184	FIRE-LITE MS-5UD	IN USE		2
4156	2330	FIRE-LITE MS-5UD	IN USE		4
4157	2379	FCI FC-72	IN USE		2
4158	2407	FIRE-LITE MS-9200UDLS	IN USE		1
4159	3071	NOTIFIER NFS-2 640	IN USE		1
4160	3073	FIRE-LITE MS-9200UDLS	IN USE		1
4161	3074	NOTIFIER AFP-200	IN USE		2
4162	3245	NOTIFIER NFS-2 640	IN USE		4
4165	3090	SIEMENS XLSV	IN USE	JSEC	1
4166	3144	FIRE-LITE MS-9200UDLS	IN USE		2
4167	3147	SIMPLEX 4100ES	IN USE		1
4168	3148	NOTIFIER NFS-2 640	IN USE		1
4169	3200	SIMPLEX XLS	IN USE		1
4170	3326	KF IRAC	IN USE		1
4171	3400	KF IRAC	IN USE		2
4172	1052	FIRE-LITE MS-5UD	IN USE		1
4173	1065	FIRE-LITE MS-9200UDLS	OOS		1
4174	4504	NOTIFIER NFS-2 3030	IN USE		2
4175	700A	KF IRAC	IN USE		1
4176	4507	KF IRAC	IN USE		1
4177	4510	NOTIFIER NFS-2 3030	IN USE		1
4178	4727	KF IRAC	IN USE		2
4179	4728	KF IRAC	IN USE		2
4180	5110	FIRE-LITE MS-10UD	IN USE		1
4181	1116B	FARADAY FW XVI	IN USE		2
4182	1120A	FIRE-LITE MS-10UD	IN USE		2
4183	1120B	NOTIFIER SFP-10UD	IN USE		2
4184	1185-1186	FIRE-LITE MS-2410UD	IN USE		2
4185	423 / 425 / 429	FIRE-LITE MS-10UD	IN USE		4
4186	269A	KF IRAC	IN USE		2
4187	269B / 269C	SIMPLEX 4000	IN USE		2
4188	520	NOTIFIER SFP-1024	IN USE		2
4190	328	KF IRAC	IN USE		1
4191	1103A	SILENT KNIGHT SK5700	IN USE		2
4192	6155	SILENT KNIGHT IFP-300	IN USE		2
4133	1059	FIRE-LITE MS-2410UD	IN USE		1
4142	688	KF IRAC	IN USE		1
4164	935	UNKNOWN	IN USE		2
4195	4211	SIMPLEX 4020	IN USE		3
4196	2401	FIRE-LITE MS-5210UD	IN USE		1
4199	2200	FIRE-LITE MS-9200UDLS	IN USE		1
4200	4509	KF IRAC	IN USE		1
4204	384G	FIRE-LITE NFW2-100	IN USE		2
4201	383A	KF IRAC	IN USE		1



4202	383B	KF IRAC	IN USE		1
4225	4502	KF IRAC	IN USE		2
4226	3660A	KF COMBO	IN USE		1
4205	400A	KIDDIE AEGIS	IN USE	Telephone Hut	1
4206	700G	KF COMBO	IN USE		1
4207	714B	KF STAR	IN USE		1
4208	714F	KF IRAC	IN USE		1
4209	714G	KF IRAC	IN USE		1
4210	2479	FIRE-LITE MS-4424	IN USE	Vet Clinic	1
4211	3000	KIDDIE AEGIS	IN USE	Telephone Hut	1
4212	3500	KIDDIE AEGIS	IN USE	Telephone Hut	1
4213	3660	FCI 7200	IN USE		1
4214	6145	UNKNOWN	IN USE		2
4215	6280	COMBO	IN USE	No Inspection	N/A
4216	3500SUB	UNKNOWN	?		?
4217	3500SW	UNKNOWN	?		?
4218	300SUB	UNKNOWN	?		?
4219	300SW	UNKNOWN	?		?
4220	400SUB	UNKNOWN	?		?
4221	4100SUB	UNKNOWN	?		?
4227	1114A	KIDDIE AEGIS	IN USE	Telephone Hut S.I.	1
4228	5615	KIDDIE AEGIS	IN USE	Telephone Hut	1

**(T/E 3 D) AES Transmitters Edgewood Area**

<b>EDGEWOOD AREA</b>		<b>FIRE ALARM ITM TIER PLAN</b>			
<b>AES NUMBER</b>	<b>BUILDING NUMBER</b>	<b>SYSTEM TYPE</b>	<b>STATUS</b>	<b>LOCATION</b>	<b>TIER</b>
4023	E4224	NOTIFIER NFW-50	IN USE		1
4067	E2188	SILENT KNIGHT SK5820	IN USE	Mask Plant	1
4068	E3150 / E3151	SIMPLEX 4100	IN USE		1
4069	E3160	FIRE-LITE MS-10UD	IN USE		1
4070	E3560 / E3566	SILENT KNIGHT SK5208	IN USE		1
4071	E3580	CY PYRO CP-400	IN USE		1
4072	E3726	FIRE-LITE MS-2410B	IN USE		1
4078	E5060	FIRE-LITE MS-9200UDLS	IN USE		2
4073	E1401	SIEMENS MXL-IQ	IN USE		2
4074	E1570	SIEMENS XLSV	IN USE		2
4075	E1901	FIRE-LITE MS-9200UDLS	IN USE		1
4076	E1902	NOTIFIER NFS-2 640	IN USE		1
4077	E1958	NO FACP / LOCAL AES	IN USE		2
4079	E2100	NOTIFIER NFS-2 640	IN USE		1
4080	E2400	NOTIFIER NFS-2 320	IN USE		1
4081	E2800	SIMPLEX XLS	IN USE		1
4082	E2900	NOTIFIER NFS-2 640	IN USE		1
4083	E3330 / E3331 / E3332 / E3320	NOTIFIER NFS-2 640	IN USE		1
4084	E3400	EDWARDS EST 3	IN USE		1
4085	E3401	EDWARDS EST 3	IN USE		1

4086	E3510	NOTIFIER NFS-2 640	IN USE		1
4087	E3549	KF IRAC	IN USE		1
4088	E3081	FIRE-LITE MS-5UD	IN USE		1
4089	E4301	GAMEWELL E3	IN USE		1
4090	E4516	KF IRAC	IN USE		2
4091	E5101	FIRE-LITE MS-9200UDLS	IN USE		1
4092	E5951	KF IRAC	IN USE		1
4093	E3462	FIRE-LITE MS-9200UDLS	IN USE		1
4025	E4130	NOTIFIER NFS-2 3030	IN USE		1
4026	E4128	NOTIFIER NFS-2 3030	IN USE		1
4052	E3831	KF IRAC	IN USE		4
4053	E4405	NOTIFIER NFS-2 640	IN USE	No Inspection MDNG	N/A
4095	E4225	FIRE-LITE MS-10UD	IN USE	No Inspection MDNG	N/A
4098	E2184 / E2186 / E2188	FIRE-LITE ES 50X	IN USE		3
4131	E5357	NOTIFIER NFS-2 320	IN USE		3
4134	E4081	COMBO	IN USE	No Inspection MDNG	N/A
4135	E4222	IRAC	IN USE	No Inspection MDNG	N/A
4136	E4227	IRAC	IN USE	No Inspection MDNG	N/A
4137	E4228	STAR	IN USE	No Inspection MDNG	N/A
4138	E4229	IRAC	IN USE	No Inspection MDNG	N/A
4139	E4305	STAR	IN USE	No Inspection MDNG	N/A
4140	E4306	COMBO	IN USE	No Inspection MDNG	N/A
4141	E4221	FIRE-LITE MS-5UD	IN USE	EOC	1
4118	E1430	KF COMBO	IN USE		1
4119	E2901	NOTIFIER NFS-2 640	IN USE		1
4120	E3101	FIRE-LITE MS-5UD	IN USE		4
4122	E3516	KF IRAC	IN USE		2
4124	E3837	GAMEWELL ZANS 409	IN USE		1
4125	E3844	EDWARDS EST 3	IN USE		1
4126	E5100	SIEMENS XLSV	IN USE		1
4143	E5234	FIRE-LITE MS-9200UDLS	IN USE		4
4144	E5240	NOTIFIER SFP-400	IN USE		2
4145	E5830	FIRE-LITE MS-9200UDLS	IN USE		1
4146	E5864	FIRE-LITE MS-10UD	IN USE		1
4147	E5866	FIRE-LITE MS-10UD	IN USE		1
4148	E5884	COMBO	IN USE		1
4149	E7152	NOTIFIER NFS-2 640	IN USE		4
4150	E7153	NOTIFIER NFS-2 640	IN USE		4
4189	E5140	NO FACP / LOCAL AES	IN USE		3
4193	E5180	SILENT KNIGHT SK5820	IN USE		1
4194	E5103	NOTIFIER NFS-2 640	IN USE		1
4129	E4230	SILENT KNIGHT SK6808	IN USE		4
4130	E3835 / E3836	NOTIFIER NFS-2 640	IN USE		1
4132	E3840	SIMPLEX 4002	IN USE		1

4197	E4110	NOTIFIER NFS-2 3030	IN USE		1
4198	E3000	KF COMBO	IN USE		1
4222	E1300SUB	UNKNOWN	?		?
4223	E3500SUB	UNKNOWN	?		?
4224	E5300SUB	UNKNOWN	?		?
4231	E3832	FIRE-LITE MS-9200UDLS	IN USE		1
4232	E4140	KF IRAC	IN USE		1
4233	E4585	EDWARDS LSS4	IN USE		1
4235	E3612	EDWARDS 2400	IN USE		2

**Technical Exhibit 4 - IMCOM Requirements/Standards  
(TE 4 A) Historic Buildings**

**HISTORIC BUILDINGS**

BUILDING	00006
BUILDING	0001G
BUILDING	0002G
BUILDING	00037
BUILDING	0003G
BUILDING	0004G
BUILDING	00050
BUILDING	0005G
BUILDING	00099
BUILDING	00112
BUILDING	00150
BUILDING	0020G
BUILDING	0021G
BUILDING	0022G
BUILDING	0023G
BUILDING	00251
BUILDING	00351
BUILDING	00355
BUILDING	00358
BUILDING	00380
BUILDING	0052G
BUILDING	0054G
BUILDING	0056G
BUILDING	0057G
BUILDING	0058G
BUILDING	0070G
BUILDING	0071G
BUILDING	0081G
BUILDING	0082G
BUILDING	0083G
BUILDING	0084G
BUILDING	0101G
BUILDING	0104G
BUILDING	0107G
BUILDING	0112G
BUILDING	0116G
BUILDING	0119G
BUILDING	02025
BUILDING	02026
BUILDING	02027
BUILDING	03062
BUILDING	0386A
BUILDING	E1220
BUILDING	E1222
BUILDING	E1224

BUILDING	E1226
BUILDING	E1228
BUILDING	E1230
BUILDING	E1236
BUILDING	E1238
BUILDING	E1240
BUILDING	E1242
BUILDING	E1244
BUILDING	E1246
BUILDING	E1248
BUILDING	E1250
BUILDING	E1252
BUILDING	E1254
BUILDING	E3330
BUILDING	E4160
BUILDING	E4162
BUILDING	E4405
BUILDING	E4410
BUILDING	E4415
BUILDING	E4420
BUILDING	E4425
BUILDING	E4430
BUILDING	E4435
BUILDING	E4440
BUILDING	E4455
BUILDING	E4460
BUILDING	E4465
BUILDING	E4470
BUILDING	E4475
BUILDING	E4480
BUILDING	E4672
BUILDING	E4673
BUILDING	E4674
BUILDING	E4676
BUILDING	E4677
BUILDING	E4678
BUILDING	E4830
BUILDING	E4832
BUILDING	E4834
BUILDING	E4836
BUILDING	E4838
BUILDING	E4840
BUILDING	E4842
BUILDING	E4844
BUILDING	E4846
BUILDING	E4848

BUILDING	E6810
BUILDING	E6811
BUILDING	E6812
BUILDING	E6814

**(TE 4 B) ITM Common Repair Parts****COMMON REPAIR ITEMS INSTALLED**

ITEM	SIZE	COST	FIRE-LITE/HONEY WELL	TYPE	COST	SYSTEM SENSOR	TYPE	COST
BATTERY	12VDC 7AH		DUCT DETECTOR HEAD	ADDRESSABLE		2W-B SMOKE DETECTOR	CONVENTIONA L	

BATTERY	12VDC 8AH		DUCT DETECTOR HEAD	CONVENTIONA L		4W-B SMOKE DETECTOR	CONVENTIONA L	
BATTERY	12VDC 12AH		SMOKE DETECTOR HEAD	ADDRESSABLE		2151 DUCT SMOKE HEAD	CONVENTIONA L	
BATTERY	12VDC 18AH		SMOKE DETECTOR HEAD	CONVENTIONA L		D4120 DUCT SMOKE HEAD	CONVENTIONA L	
BATTERY	12VDC 25AH		HONEYWELL NSP-25	ADDRESSABLE		2D51 DUCT SMOKE HEAD	CONVENTIONA L	
BATTERY	12VDC 26AH		HONEYWELL BG-12L	CONVENTIONA L		D2 DUCT SMOKE HEAD	CONVENTIONA L	
BATTERY	12VDC 33AH		HONEYWELL BG-12LX	ADDRESSABLE		P2R HORN STROBE		
BATTERY	12VDC 35AH		AGENT REL PULLSTATION	CONVENTIONA L		P2RL HORN STROBE		
BATTERY	12VDC 55AH		HONEYWELL FMM-101	ADDRESSABLE		P2WL HORN STROBE		
BATTERY	12VDC 58AH		HONEYWELL FCM-1	ADDRESSABLE		P2GRL HORN STROBE		
BATTERY	12VDC 79AH		HONEYWELL FRM-1	ADDRESSABLE		P2GWL HORN STROBE		
BATTERY	12VDC 100AH		HONEYWELL FCM-1-REL	ADDRESSABLE		MHW1 HORN STROBE		
BATTERY	12VDC 105AH		HONEYWELL FDRM-1	ADDRESSABLE		MHW HORN STROBE		
BATTERY	12VDC 115AH		HONEYWELL FMM-1	ADDRESSABLE		MHWZ HORN STROBE		
FUSES	KING FISHER		HONEYWELL FZM-1	ADDRESSABLE		MHR1 HORN STROBE		
			HONEYWELL FDM-1	ADDRESSABLE		MHR HORN STROBE		
			HONEYWELL FMM-4-20	ADDRESSABLE		MHRZ HORN STROBE		
			HONEYWELL FTM-1	ADDRESSABLE		SPSRVA SPEAKER STROBE		
						SPSWVA SPEAKER STROBE		
						SPSCRVA SPEAKER STROBE		
						SPSCWVA SPEAKER STROBE		
						SPSCHRVA SPEAKER STROBE		
						SPSCHWVA SPEAKER STROBE		
						SW-ALERT SPEAKER STROBE		
						SPSCWL SPEAKER STROBE		

						SPSCWL SPEAKER STROBE		
						5601P HEAT DETECTOR		
						5603 HEAT DETECTOR		

Technical Exhibit 5 – Forms  
 (T/E 5 A) NFPA 72 System Record Of Inspection And Testing

(T/E 5 B) NFPA 25 Centrifugal Fire Pump Annual Test Form

(T/E 5 C) NFPA 25 Sample System Inspection Tags

## Technical Exhibit 6 - Special Requirement Document

(TE 6 A) EO 13990

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# Presidential Documents

Executive Order 13990 of January 20, 2021

## Protecting Public Health and the Environment and Restoring Science To Tackle the Climate Crisis

By the authority vested in me as President by the Constitution and the laws of the United States of America, it is hereby ordered as follows:

**Section 1. Policy.** Our Nation has an abiding commitment to empower our workers and communities; promote and protect our public health and the environment; and conserve our national treasures and monuments, places that secure our national memory. Where the Federal Government has failed to meet that commitment in the past, it must advance environmental justice. In carrying out this charge, the Federal Government must be guided by the best science and be protected by processes that ensure the integrity of Federal decision-making. It is, therefore, the policy of my Administration to listen to the science; to improve public health and protect our environment; to ensure access to clean air and water; to limit exposure to dangerous chemicals and pesticides; to hold polluters accountable, including those who disproportionately harm communities of color and low-income communities; to reduce greenhouse gas emissions; to bolster resilience to the impacts of climate change; to restore and expand our national treasures and monuments; and to prioritize both environmental justice and the

creation of the well-paying union jobs necessary to deliver on these goals.

To that end, this order directs all executive departments and agencies (agencies) to immediately review and, as appropriate and consistent with applicable law, take action to address the promulgation of Federal regulations and other actions during the last 4 years that conflict with these important national objectives, and to immediately commence work to confront the climate crisis.

**Sec. 2. *Immediate Review of Agency Actions Taken Between January 20, 2017, and January 20, 2021.*** (a) The heads of all agencies shall immediately review all existing regulations, orders, guidance documents, policies, and any other similar agency actions (agency actions) promulgated, issued, or adopted between January 20, 2017, and January 20, 2021, that are or may be inconsistent with, or present obstacles to, the policy set forth in section 1 of this order. For any such actions identified by the agencies, the heads of agencies shall, as appropriate and consistent with applicable law, consider suspending, revising, or rescinding the agency actions. In addition, for the agency actions in the 4 categories set forth in subsections (i) through (iv) of this section, the head of the relevant agency, as appropriate and consistent with applicable law, shall consider publishing for notice and comment a proposed rule suspending, revising, or rescinding the agency action within the time frame specified.

(i) Reducing Methane Emissions in the Oil and Gas Sector: “Oil and Natural Gas Sector: Emission Standards for New, Reconstructed, and Modified Sources Reconsideration,” 85 FR 57398 (September 15, 2020), by

September 2021.

(ii) Establishing Ambitious, Job-Creating Fuel Economy Standards: “The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program,” 84 FR 51310 (September 27, 2019), by April 2021; and “The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks,” 85 FR 24174 (April 30,

2020), by July 2021. In considering whether to propose suspending, revising, or rescinding the latter rule, the agency should consider the views of representatives from labor unions, States, and industry.

(iii) Job-Creating Appliance- and Building-Efficiency Standards: “Energy Conservation Program for Appliance Standards: Procedures for Use in New or Revised Energy Conservation Standards and Test Procedures for Consumer Products and Commercial/Industrial Equipment,” 85 FR 8626 (February 14, 2020), with major revisions proposed by March 2021 and any remaining revisions proposed by June 2021; “Energy Conservation Program for Appliance Standards: Procedures for Evaluating Statutory Factors for Use in New or Revised Energy Conservation Standards,” 85 FR 50937 (August 19, 2020), with major revisions proposed by March 2021 and any remaining revisions proposed by June 2021; “Final Determination Regarding Energy Efficiency Improvements in the 2018 International Energy Conservation Code (IECC),” 84 FR 67435 (December 10, 2019), by May 2021; “Final Determination Regarding Energy Efficiency Improvements in ANSI/ASHRAE/IES Standard 90.1–2016: Energy Standard for Buildings, Except Low-Rise Residential Buildings,” 83 FR 8463 (February 27, 2018),

by May 2021.

(iv) Protecting Our Air from Harmful Pollution: “National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units—Reconsideration of Supplemental Finding and Residual Risk and Technology Review,” 85 FR 31286 (May 22, 2020), by August 2021; “Increasing Consistency and Transparency in Considering Benefits and Costs in the Clean Air Act Rulemaking Process,” 85 FR 84130 (December 23, 2020), as soon as possible; “Strengthening Transparency in Pivotal Science Underlying Significant Regulatory Actions and Influential Scientific Information,” 86 FR 469 (January 6, 2021), as soon as possible.

(b) Within 30 days of the date of this order, heads of agencies shall submit to the Director of the Office of Management and Budget (OMB) a preliminary list of any actions being considered pursuant to section (2)(a) of this order that would be completed by December 31, 2021, and that would be subject to OMB review. Within 90 days of the date of this order, heads of agencies shall submit to the Director of OMB an updated list of any actions being considered pursuant to section (2)(a) of this order that would be completed by December 31, 2025, and that would be subject to OMB review. At the time of submission to the Director of OMB, heads of agencies shall also send each list to the National Climate Advisor. In addition, and at the same time, heads of agencies shall send to the National Climate Advisor a list of additional actions being considered pursuant to section (2)(a) of this order that would not be subject to OMB review.

(c) Heads of agencies shall, as appropriate and consistent with applicable law, consider whether to take any additional agency actions to fully enforce the policy set forth in section 1 of this order. With respect to the Administrator of the Environmental Protection Agency, the following specific actions should be considered:

(i) proposing new regulations to establish comprehensive standards of performance and emission guidelines for methane and volatile organic compound emissions from existing operations in the oil and gas sector, including the exploration and production, transmission, processing, and storage segments, by September 2021; and

(ii) proposing a Federal Implementation Plan in accordance with the Environmental Protection Agency’s “Findings of Failure To Submit State Implementation Plan Revisions in Response to the 2016 Oil and Natural Gas Industry Control Techniques Guidelines for the 2008 Ozone National Ambient Air Quality Standards (NAAQS) and for States in the Ozone Transport Region,” 85 FR 72963 (November 16, 2020), for California, Connecticut, New York, Pennsylvania, and Texas by January 2022.



(d) The Attorney General may, as appropriate and consistent with applicable law, provide notice of this order and any actions taken pursuant to section 2(a) of this order to any court with jurisdiction over pending litigation related to those agency actions identified pursuant to section (2)(a) of this order, and may, in his discretion, request that the court stay or otherwise dispose of litigation, or seek other appropriate relief consistent with this order, until the completion of the processes described in this order.

(e) In carrying out the actions directed in this section, heads of agencies shall seek input from the public and stakeholders, including State local, Tribal, and territorial officials, scientists, labor unions, environmental advocates, and environmental justice organizations.

**Sec. 3. *Restoring National Monuments.*** (a) The Secretary of the Interior, as appropriate and consistent with applicable law, including the Antiquities Act, 54 U.S.C. 320301 *et seq.*, shall, in consultation with the Attorney General, the Secretaries of Agriculture and Commerce, the Chair of the Council on Environmental Quality, and Tribal governments, conduct a review of the monument boundaries and conditions that were established by Proclamation 9681 of December 4, 2017 (Modifying the Bears Ears National Monument); Proclamation 9682 of December 4, 2017 (Modifying the Grand Staircase-Escalante National Monument); and Proclamation 10049 of June 5, 2020 (Modifying the Northeast Canyons and Seamounts Marine National Monument), to determine whether restoration of the monument boundaries and conditions that existed as of January 20, 2017, would be appropriate.

(b) Within 60 days of the date of this order, the Secretary of the Interior shall submit a report to the President summarizing the findings of the review conducted pursuant to subsection (a), which shall include recommendations for such Presidential actions or other actions consistent with law as the Secretary may consider appropriate to carry out the policy set forth in section 1 of this order.

(c) The Attorney General may, as appropriate and consistent with applicable law, provide notice of this order to any court with jurisdiction over pending litigation related to the Grand Staircase-Escalante, Bears Ears, and Northeast Canyons and Seamounts Marine National Monuments, and may, in his discretion, request that the court stay the litigation or otherwise delay further litigation, or seek other appropriate relief consistent with this order, pending the completion of the actions described in subsection (a) of this section.

**Sec. 4. *Arctic Refuge.*** (a) In light of the alleged legal deficiencies underlying the program, including the inadequacy of the environmental review required by the National Environmental Policy Act, the Secretary of the Interior shall, as appropriate and consistent with applicable law, place a temporary moratorium on all activities of the Federal Government relating to the implementation of the Coastal Plain Oil and Gas Leasing Program, as established by the Record of Decision signed August 17, 2020, in the Arctic National Wildlife Refuge. The Secretary shall review the program and, as appropriate and consistent with applicable law, conduct a new, comprehensive analysis of the potential environmental impacts of the oil and gas program.

(b) In Executive Order 13754 of December 9, 2016 (Northern Bering Sea Climate Resilience), and in the Presidential Memorandum of December 20, 2016 (Withdrawal of Certain Portions of the United States Arctic Outer Continental Shelf From Mineral Leasing), President Obama withdrew areas in Arctic waters and the Bering Sea from oil and gas drilling and established the Northern Bering Sea Climate Resilience Area. Subsequently, the order was revoked and the memorandum was amended in Executive Order 13795 of April 28, 2017 (Implementing an America-First Offshore Energy Strategy). Pursuant to section 12(a) of the Outer Continental Shelf Lands Act, 43

U.S.C. 1341(a), Executive Order 13754 and the Presidential Memorandum of December 20, 2016, are hereby reinstated in their original form, thereby restoring the original withdrawal of certain offshore areas in Arctic waters and the Bering Sea from oil and gas drilling.

(c) The Attorney General may, as appropriate and consistent with applicable law, provide notice of this order to any court with jurisdiction over pending litigation related to the Coastal Plain Oil and Gas Leasing Program in the Arctic National Wildlife Refuge and other related programs, and may, in his discretion, request that the court stay the litigation or otherwise delay further litigation, or seek other appropriate relief consistent with this order, pending the completion of the actions described in subsection (a) of this section.

**Sec. 5. *Accounting for the Benefits of Reducing Climate Pollution.*** (a) It is essential that agencies capture the full costs of greenhouse gas emissions as accurately as possible, including by taking global damages into account. Doing so facilitates sound decision-making, recognizes the breadth of climate impacts, and supports the international leadership of the United States on climate issues. The “social cost of carbon” (SCC), “social cost of nitrous oxide” (SCN), and “social cost of methane” (SCM) are estimates of the monetized damages associated with incremental increases in greenhouse gas emissions. They are intended to include changes in net agricultural productivity, human health, property damage from increased flood risk, and the value of ecosystem services. An accurate social cost is essential for agencies to accurately determine the social benefits of reducing greenhouse gas emissions when conducting cost-benefit analyses of regulatory and other actions.

(b) There is hereby established an Interagency Working Group on the Social Cost of Greenhouse Gases (the “Working Group”). The Chair of the Council of Economic Advisers, Director of OMB, and Director of the Office of Science and Technology Policy shall serve as Co-Chairs of the Working Group.

(i) **Membership.** The Working Group shall also include the following other officers, or their designees: the Secretary of the Treasury; the Secretary of the Interior; the Secretary of Agriculture; the Secretary of Commerce; the Secretary of Health and Human Services; the Secretary of Transportation; the Secretary of Energy; the Chair of the Council on Environmental Quality; the Administrator of the Environmental Protection Agency; the Assistant to the President and National Climate Advisor; and the Assistant to the President for Economic Policy and Director of the National Economic Council.

(ii) **Mission and Work.** The Working Group shall, as appropriate and consistent with applicable law:

(A) publish an interim SCC, SCN, and SCM within 30 days of the date of this order, which agencies shall use when monetizing the value of changes in greenhouse gas emissions resulting from regulations and other relevant agency actions until final values are published;

(B) publish a final SCC, SCN, and SCM by no later than January 2022;

(C) provide recommendations to the President, by no later than September 1, 2021, regarding areas of decision-making, budgeting, and procurement by the Federal Government where the SCC, SCN, and SCM should be applied;

(D) provide recommendations, by no later than June 1, 2022, regarding a process for reviewing, and, as appropriate, updating, the SCC, SCN, and SCM to ensure that these costs are based on the best available economics and science; and

(E) provide recommendations, to be published with the final SCC, SCN, and SCM under subparagraph (A) if feasible, and in any event by no later than June 1, 2022, to revise methodologies for calculating the SCC, SCN, and SCM, to the extent that current methodologies do not adequately take account of climate risk, environmental justice, and intergenerational equity.

(iii) Methodology. In carrying out its activities, the Working Group shall consider the recommendations of the National Academies of Science, Engineering, and Medicine as reported in *Valuing Climate Damages: Updating Estimation of the Social Cost of Carbon Dioxide* (2017) and other pertinent scientific literature; solicit public comment; engage with the public and stakeholders; seek the advice of ethics experts; and ensure that the SCC, SCN, and SCM reflect the interests of future generations in avoiding threats posed by climate change.

**Sec. 6. *Revoking the March 2019 Permit for the Keystone XL Pipeline.***

(a) On March 29, 2019, the President granted to TransCanada Keystone Pipeline, L.P. a Presidential permit (the “Permit”) to construct, connect, operate, and maintain pipeline facilities at the international border of the United States and Canada (the “Keystone XL pipeline”), subject to express conditions and potential revocation in the President’s sole discretion. The Permit is hereby revoked in accordance with Article 1(1) of the Permit.

(b) In 2015, following an exhaustive review, the Department of State and the President determined that approving the proposed Keystone XL pipeline would not serve the U.S. national interest. That analysis, in addition to concluding that the significance of the proposed pipeline for our energy security and economy is limited, stressed that the United States must prioritize the development of a clean energy economy, which will in turn create good jobs. The analysis further concluded that approval of the proposed pipeline would undermine U.S. climate leadership by undercutting the credibility and influence of the United States in urging other countries to take ambitious climate action.

(c) Climate change has had a growing effect on the U.S. economy, with climate-related costs increasing over the last 4 years. Extreme weather events and other climate-related effects have harmed the health, safety, and security of the American people and have increased the urgency for combatting climate change and accelerating the transition toward a clean energy economy. The world must be put on a sustainable climate pathway to protect Americans and the domestic economy from harmful climate impacts, and to create well-paying union jobs as part of the climate solution.

(d) The Keystone XL pipeline disserves the U.S. national interest. The United States and the world face a climate crisis. That crisis must be met with action on a scale and at a speed commensurate with the need to avoid setting the world on a dangerous, potentially catastrophic, climate trajectory. At home, we will combat the crisis with an ambitious plan to build back better, designed to both reduce harmful emissions and create good clean-energy jobs. Our domestic efforts must go hand in hand with

U.S. diplomatic engagement. Because most greenhouse gas emissions originate beyond our borders, such engagement is more necessary and urgent than ever. The United States must be in a position to exercise vigorous climate leadership in order to achieve a significant increase in global climate action and put the world on a sustainable climate pathway. Leaving the Keystone XL pipeline permit in place would not be consistent with my Administration’s economic and climate imperatives.

**Sec. 7. *Other Revocations.*** (a) Executive Order 13766 of January 24, 2017 (Expediting Environmental Reviews and Approvals For High Priority Infrastructure Projects), Executive Order 13778 of February 28, 2017 (Restoring the Rule of Law, Federalism, and Economic Growth by Reviewing the “Waters of the United States” Rule), Executive Order 13783 of March 28, 2017 (Promoting Energy Independence and Economic Growth), Executive Order 13792 of April 26, 2017 (Review of Designations Under the Antiquities Act), Executive Order 13795 of April 28, 2017 (Implementing an America-First Offshore Energy Strategy), Executive Order 13868 of April 10, 2019 (Promoting Energy Infrastructure and Economic Growth), and Executive Order 13927 of June 4, 2020 (Accelerating the Nation’s Economic Recovery from the COVID-19 Emergency by Expediting Infrastructure Investments and Other Activities), are hereby revoked. Executive Order 13834 of May 17, 2018

(Efficient Federal Operations), is hereby revoked except for sections 6, 7, and 11.

(b) Executive Order 13807 of August 15, 2017 (Establishing Discipline and Accountability in the Environmental Review and Permitting Process for Infrastructure Projects), is hereby revoked. The Director of OMB and the Chair of the Council on Environmental Quality shall jointly consider whether to recommend that a replacement order be issued.

(c) Executive Order 13920 of May 1, 2020 (Securing the United States Bulk-Power System), is hereby suspended for 90 days. The Secretary of Energy and the Director of OMB shall jointly consider whether to recommend that a replacement order be issued.

(d) The Presidential Memorandum of April 12, 2018 (Promoting Domestic Manufacturing and Job Creation Policies and Procedures Relating to Implementation of Air Quality Standards), the Presidential Memorandum of October 19, 2018 (Promoting the Reliable Supply and Delivery of Water in the West), and the Presidential Memorandum of February 19, 2020 (Developing and Delivering More Water Supplies in California), are hereby revoked.

(e) The Council on Environmental Quality shall rescind its draft guidance entitled, "Draft National Environmental Policy Act Guidance on Consideration of Greenhouse Gas Emissions," 84 FR 30097 (June 26, 2019). The Council, as appropriate and consistent with applicable law, shall review, revise, and update its final guidance entitled, "Final Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in National Environmental Policy Act Reviews," 81 FR 51866 (August 5, 2016).

(f) The Director of OMB and the heads of agencies shall promptly take steps to rescind any orders, rules, regulations, guidelines, or policies, or portions thereof, including, if necessary, by proposing such rescissions through notice-and-comment rulemaking, implementing or enforcing the Executive Orders, Presidential Memoranda, and draft guidance identified in this section, as appropriate and consistent with applicable law.

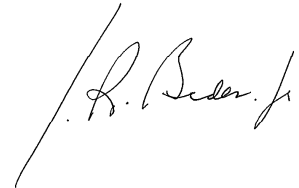
**Sec. 8. General Provisions.** (a) Nothing in this order shall be construed to impair or otherwise affect:

(i) the authority granted by law to an executive department or agency, or the head thereof; or

(ii) the functions of the Director of the Office of Management and Budget relating to budgetary, administrative, or legislative proposals.

(b) This order shall be implemented in a manner consistent with applicable law and subject to the availability of appropriations.

(c) This order is not intended to, and does not, create any right or benefit, substantive or procedural, enforceable at law or in equity by any party against the United States, its departments, agencies, or entities, its officers, employees, or agents, or any other person.



THE WHITE HOUSE,  
*January 20, 2021.*

[FR Doc. 2021-01765  
Filed 1-22-21; 11:15 am]  
Billing code 3295-F1-P

#### 7.4 Government-Furnished Material (GFM)/Property (GFP)/ Equipment (GFE)

The Contractor may use GFM/GFP/GFE materials when no other materials are available. If GFM/GFP/GFE materials are used in any ITM&R, the Contractor shall list the DMO number the GFM/GFP/GFE were used to repair, date, description of part used, quantity remaining in inventory on the DA Form 2062, Hand Receipt/Annex Number, to record inventory data. The Contractor shall keep current the inventory listing.

##### 7.4.1 Initial Inventory

An initial inventory of Government furnished property shall be made jointly by the Contractor and the COR IAW DA PAM 710-2-1, Using Unit Supply System: Manual Procedures, on or before the contract start date. The operational or condition status shall be jointly determined. Any item found to be not in working order, or not suitable for its intended purpose, will be recorded and the COR and the Contractor shall certify as accurate the joint inventory. All inventory listings will utilize DA Form 2062, Hand Receipt/Annex Number, to record inventory data. The Contractor shall keep current the inventory listing. The Contractor shall prepare applicable DA Form 3161, Request for Issue or Turn-In, for adjustments to the account IAW DA PAM 710-2-1. Authorized adjustments will be made on DA Form 2062 by the COR. The Contractor shall be accountable to the COR for equipment and supplies received for use during the contract. The Government will maintain the Property Book.

##### 7.4.2 Utilities

The Government will furnish electricity, water, sewer, natural gas, liquid propane gas, heat, air conditioning, and other utility services currently available in the Government furnished facilities. The Contractor shall obtain written approval from DPW prior to installing connections and meters. The Contractor shall instruct employees in utilities conservation practices. The Contractor shall be responsible for operating under conditions that preclude the waste of utilities, which include turning off the water faucets or valves after using the required amount to accomplish cleaning vehicles and equipment.

##### 7.4.3 Damage Caused by Contractor

Damages caused by Contractor employees shall be repaired at no cost to the Government. In all instances where Contractor's employees damage Government property or equipment, the Contractor shall provide a verbal report to the KO within 01 hour of occurrence. The Contractor shall notify the COR and return the damaged area to its previous condition. All damage done by the Contractor and/or his sub-contractor/s shall become the Contractor's

responsibility. The Contractor shall furnish all labor, materials and equipment to perform the repair work including cultivating and applying seed, sprigging, or placing sod. All turf repair work shall be maintained to ensure successful growth.

#### 7.4.4 Third Party Repair Damaged Areas

In the event the Contractor discovers damages caused by another party, the Contractor shall notify the KO and COR of the extent of the damage and proposed corrective action. The Contractor shall make no repairs until authorized by the KO.

#### 7.4.5 Equipment Replacement (Government Property)

If an item of Government property is determined by the Contractor to be beyond economical repair, the Contractor shall recommend to the KO and COR in writing that such equipment be replaced. Substantiating data to support the recommended replacement shall be included. If the Government decides that such equipment should be replaced or repaired, and replacement or repair is authorized, the Contractor shall accomplish the work IAW the appropriate work level criteria. Disposal instructions will be provided by the KO/COR.

#### 7.4.6 Forms

It is the responsibility of the Contractor to obtain all required government forms on [www.apd.army.mil](http://www.apd.army.mil). Any local required Government forms will be furnished by the Government. Initial supplies of these items will be available at contract start. The Contractor shall establish requirements for subsequent needs and prepare requisitions for such requirements and submit them to the KO and COR. Copies of new or revised forms and logs will be acquired by the Contractor.

#### 7.5 Contractor-Furnished Material (CFM)/Property (CFP)/Equipment (CFE)

All Contractor furnished, material, property and equipment shall meet applicable Federal, State, local, DoD and Army laws, codes, and regulations. Examples are provided below:

##### 7.5.1 Contractor-Furnished Material and Responsibilities

The Contractor shall furnish all supplies, equipment, facilities, and services required to perform work under this contract. The Contractor shall provide all housekeeping and custodial services for the GFP provided to the Contractor. The Contractor shall provide all supplies, tools and clothing (including personal protective clothing and equipment for Contractor employees when required by OSHA regulations, 29 CFR 1910, SUBPART I) required to meet the terms of the contract.

##### 7.5.2 Permits

The Contractor shall obtain all appointments, licenses, and permits required for performance of work and for complying with all applicable Federal, State, and local laws. Permits and licenses shall be provided to the COR before work commences.

##### 7.5.3 Contractor-Furnished Items

The Contractor shall provide all vehicles, equipment, parts, tools, fuel, oil, materials and any other items required to perform all Contract requirements. The Contractor's property shall be operational as intended by the manufacturer, and be safe, clean, and suitable for use at a military installation. All Contractor furnished property and equipment are subject to KO and COR inspection at all times. There is available material/parts (see TE XX) remaining that will be turned over to the incoming Contractor for their use. This government provided material/parts in no way absolves the Contractor from providing the required Contractor furnished materials/parts to execute the maintenance services under this contract.

##### 7.5.5 Unserviceable Contractor Equipment

Contractor furnished equipment or items, inoperable or unserviceable for whatever reason including failure to meet Federal, State, or local safety requirements, shall be removed from the installation within 24 hours after failure except items undergoing maintenance by the Contractor in Government provided facilities. Equipment that is not repaired within 30 calendar days will be removed from the installation at the Contractor's expense.

##### 7.5.6 Fuels

The Contractor shall furnish vehicle and equipment fuels for Contractor owned vehicles and equipment. The Contractor shall handle fuels IAW all Federal, State, and local regulations and Aberdeen Proving Grounds and Adelphi Laboratory Center Environmental Policy, petroleum program requirements, and Master Spill Plan.

#### 7.5.7 Contractor Facilities

N/A

#### 7.6 U.S. Department of Labor Wage Determination (DOL WD)

The Contractor shall refer to the wage determinations posted on [www.sam.gov](http://www.sam.gov) for the U.S. Department of Labor Wage Determination (DOL WD) applicable to this contract and this installation, for Maryland.

#### 7.7 System for Awards Management (SAM.gov)

The Office of the Assistant Secretary of the Army (Manpower & Reserve Affairs) operates and maintains a secure Army data collection site where the Contractor shall report ALL Contractor work force (including subcontractor labor) required for performance of this contract.

NOTE: This is a standard of performance and failure to submit the appropriate report, will result in a Contractor Discrepancy Report (CDR) that shall be answered within 10 calendar days of issuance.

#### 7.8 Service Contract Reporting Labor Hours

The Contractor shall report ALL Contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract for the Department of the Army via a secure data collection site. The Contractor is required to completely fill in all required data fields using the following web address: [www.sam.gov/](http://www.sam.gov/).

Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year. Contractors may direct questions to the help desk at help desk at: [www.sam.gov](http://www.sam.gov).

The designated Government representative/COR will verify that the Contractor has complied with the required contractor manpower reporting annually and document the results in the CORs' Online CORT File in the Miscellaneous section.

## Section E - Inspection and Acceptance

## 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	Government
0002	N/A	N/A	N/A	Government
0003	N/A	N/A	N/A	Government
0004	N/A	N/A	N/A	Government
0005	N/A	N/A	N/A	Government
0006	N/A	N/A	N/A	Government
0007	N/A	N/A	N/A	Government
0008	N/A	N/A	N/A	Government
1001	N/A	N/A	N/A	Government
1002	N/A	N/A	N/A	Government
1003	N/A	N/A	N/A	Government
1004	N/A	N/A	N/A	Government
1005	N/A	N/A	N/A	Government
1006	N/A	N/A	N/A	Government
1007	N/A	N/A	N/A	Government
1008	N/A	N/A	N/A	Government
2001	N/A	N/A	N/A	Government
2002	N/A	N/A	N/A	Government
2003	N/A	N/A	N/A	Government
2004	N/A	N/A	N/A	Government
2005	N/A	N/A	N/A	Government
2006	N/A	N/A	N/A	Government
2007	N/A	N/A	N/A	Government
2008	N/A	N/A	N/A	Government
3001	N/A	N/A	N/A	Government
3002	N/A	N/A	N/A	Government
3003	N/A	N/A	N/A	Government
3004	N/A	N/A	N/A	Government
3005	N/A	N/A	N/A	Government
3006	N/A	N/A	N/A	Government
3007	N/A	N/A	N/A	Government
3008	N/A	N/A	N/A	Government
4001	N/A	N/A	N/A	Government
4002	N/A	N/A	N/A	Government
4003	N/A	N/A	N/A	Government
4004	N/A	N/A	N/A	Government
4005	N/A	N/A	N/A	Government
4006	N/A	N/A	N/A	Government
4007	N/A	N/A	N/A	Government
4008	N/A	N/A	N/A	Government
5001	N/A	N/A	N/A	Government
5002	N/A	N/A	N/A	Government
5003	N/A	N/A	N/A	Government
5004	N/A	N/A	N/A	Government



5005	N/A	N/A	N/A	Government
5006	N/A	N/A	N/A	Government
5007	N/A	N/A	N/A	Government
5008	N/A	N/A	N/A	Government

## CLAUSES INCORPORATED BY REFERENCE

52.246-4	Inspection Of Services--Fixed Price	AUG 1996
52.246-16	Responsibility For Supplies	APR 1984

## Section F - Deliveries or Performance

## DELIVERY INFORMATION

CLIN	DELIVERY DATE	QUANTITY	SHIP TO ADDRESS	DODAAC / CAGE
0001	POP 03-APR-2023 TO 02-APR-2024	N/A	ABERDEEN PROVING GROUND DIRECTORATE OF PUBLIC WORKS ABERDEEN PROVING GROUND MD 21005 FOB: Destination	W905HS
0002	POP 03-APR-2023 TO 02-APR-2024	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
0003	POP 03-APR-2023 TO 02-APR-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
0004	POP 03-APR-2023 TO 02-APR-2024	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
0005	POP 03-APR-2023 TO 02-APR-2024	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
0006	POP 03-APR-2023 TO 02-APR-2024	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
0007	POP 03-APR-2023 TO 02-APR-2024	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
0008	POP 03-APR-2023 TO 02-APR-2024	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
1001	POP 03-APR-2024 TO 02-APR-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
1002	POP 03-APR-2024 TO 02-APR-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
1003	POP 03-APR-2024 TO 02-APR-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
1004	POP 03-APR-2024 TO 02-APR-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
1005	POP 03-APR-2024 TO 02-APR-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
1006	POP 03-APR-2024 TO 02-APR-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS

1007	POP 03-APR-2024 TO 02-APR-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
1008	POP 03-APR-2024 TO 02-APR-2025	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
2001	POP 03-APR-2025 TO 02-APR-2026	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
2002	POP 03-APR-2025 TO 02-APR-2026	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
2003	POP 03-APR-2025 TO 02-APR-2026	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
2004	POP 03-APR-2025 TO 02-APR-2026	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
2005	POP 03-APR-2025 TO 02-APR-2026	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
2006	POP 03-APR-2025 TO 02-APR-2026	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
2007	POP 03-APR-2025 TO 02-APR-2026	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
2008	POP 03-APR-2025 TO 02-APR-2026	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
3001	POP 03-APR-2026 TO 02-APR-2027	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
3002	POP 03-APR-2026 TO 02-APR-2027	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
3003	POP 03-APR-2026 TO 02-APR-2027	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
3004	POP 03-APR-2026 TO 02-APR-2027	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
3005	POP 03-APR-2026 TO 02-APR-2027	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
3006	POP 03-APR-2026 TO 02-APR-2027	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
3007	POP 03-APR-2026 TO 02-APR-2027	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
3008	POP 03-APR-2026 TO 02-APR-2027	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS

4001	POP 03-APR-2027 TO 02-APR-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
4002	POP 03-APR-2027 TO 02-APR-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
4003	POP 03-APR-2027 TO 02-APR-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
4004	POP 03-APR-2027 TO 02-APR-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
4005	POP 03-APR-2027 TO 02-APR-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
4006	POP 03-APR-2027 TO 02-APR-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
4007	POP 03-APR-2027 TO 02-APR-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
4008	POP 03-APR-2027 TO 02-APR-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
5001	POP 03-APR-2028 TO 02-OCT-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
5002	POP 03-APR-2028 TO 02-OCT-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
5003	POP 03-APR-2028 TO 02-OCT-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
5004	POP 03-APR-2028 TO 02-OCT-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
5005	POP 03-APR-2028 TO 02-OCT-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
5006	POP 03-APR-2028 TO 02-OCT-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
5007	POP 03-APR-2028 TO 02-OCT-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS
5008	POP 03-APR-2028 TO 02-OCT-2028	N/A	(SAME AS PREVIOUS LOCATION) FOB: Destination	W905HS

CLAUSES INCORPORATED BY REFERENCE



01012 - Accounting Clerk II	21.79
01013 - Accounting Clerk III	24.36
01020 - Administrative Assistant	37.47
01035 - Court Reporter	28.71
01041 - Customer Service Representative I	16.73
01042 - Customer Service Representative II	18.25
01043 - Customer Service Representative III	20.48
01051 - Data Entry Operator I	16.64
01052 - Data Entry Operator II	18.16
01060 - Dispatcher, Motor Vehicle	23.00
01070 - Document Preparation Clerk	18.23
01090 - Duplicating Machine Operator	18.23
01111 - General Clerk I	17.51
01112 - General Clerk II	19.12
01113 - General Clerk III	21.47
01120 - Housing Referral Assistant	25.33
01141 - Messenger Courier	19.79
01191 - Order Clerk I	16.71
01192 - Order Clerk II	18.23
01261 - Personnel Assistant (Employment) I	19.76
01262 - Personnel Assistant (Employment) II	22.10
01263 - Personnel Assistant (Employment) III	24.63
01270 - Production Control Clerk	26.81
01290 - Rental Clerk	18.17
01300 - Scheduler, Maintenance	20.31
01311 - Secretary I	20.31
01312 - Secretary II	22.72
01313 - Secretary III	25.33
01320 - Service Order Dispatcher	20.56
01410 - Supply Technician	37.47
01420 - Survey Worker	21.30
01460 - Switchboard Operator/Receptionist	17.45
01531 - Travel Clerk I	19.03
01532 - Travel Clerk II	20.71
01533 - Travel Clerk III	22.45
01611 - Word Processor I	18.62
01612 - Word Processor II	20.92
01613 - Word Processor III	23.39
05000 - Automotive Service Occupations	
05005 - Automobile Body Repairer, Fiberglass	28.60
05010 - Automotive Electrician	26.35
05040 - Automotive Glass Installer	24.82
05070 - Automotive Worker	24.82
05110 - Mobile Equipment Servicer	21.35
05130 - Motor Equipment Metal Mechanic	27.74
05160 - Motor Equipment Metal Worker	24.82
05190 - Motor Vehicle Mechanic	27.74
05220 - Motor Vehicle Mechanic Helper	19.53
05250 - Motor Vehicle Upholstery Worker	23.17
05280 - Motor Vehicle Wrecker	24.82
05310 - Painter, Automotive	26.35
05340 - Radiator Repair Specialist	24.82
05370 - Tire Repairer	15.88***
05400 - Transmission Repair Specialist	27.74
07000 - Food Preparation And Service Occupations	

07010 - Baker	17.31
07041 - Cook I	17.78
07042 - Cook II	20.67
07070 - Dishwasher	14.59***
07130 - Food Service Worker	14.77***
07210 - Meat Cutter	20.41
07260 - Waiter/Waitress	14.12***
09000 - Furniture Maintenance And Repair Occupations	
09010 - Electrostatic Spray Painter	23.06
09040 - Furniture Handler	14.06***
09080 - Furniture Refinisher	22.12
09090 - Furniture Refinisher Helper	16.39
09110 - Furniture Repairer, Minor	19.45
09130 - Upholsterer	19.86
11000 - General Services And Support Occupations	
11030 - Cleaner, Vehicles	14.32***
11060 - Elevator Operator	15.64***
11090 - Gardener	23.36
11122 - Housekeeping Aide	15.64***
11150 - Janitor	15.64***
11210 - Laborer, Grounds Maintenance	17.44
11240 - Maid or Houseman	14.58***
11260 - Pruner	16.35
11270 - Tractor Operator	21.37
11330 - Trail Maintenance Worker	17.44
11360 - Window Cleaner	16.64
12000 - Health Occupations	
12010 - Ambulance Driver	23.71
12011 - Breath Alcohol Technician	25.31
12012 - Certified Occupational Therapist Assistant	35.59
12015 - Certified Physical Therapist Assistant	30.02
12020 - Dental Assistant	23.78
12025 - Dental Hygienist	50.57
12030 - EKG Technician	37.13
12035 - Electroneurodiagnostic Technologist	37.13
12040 - Emergency Medical Technician	23.71
12071 - Licensed Practical Nurse I	22.63
12072 - Licensed Practical Nurse II	25.31
12073 - Licensed Practical Nurse III	28.22
12100 - Medical Assistant	18.95
12130 - Medical Laboratory Technician	28.82
12160 - Medical Record Clerk	22.95
12190 - Medical Record Technician	27.06
12195 - Medical Transcriptionist	20.72
12210 - Nuclear Medicine Technologist	43.13
12221 - Nursing Assistant I	13.87***
12222 - Nursing Assistant II	15.59***
12223 - Nursing Assistant III	17.01
12224 - Nursing Assistant IV	19.11
12235 - Optical Dispenser	25.02
12236 - Optical Technician	21.36
12250 - Pharmacy Technician	18.40
12280 - Phlebotomist	21.37
12305 - Radiologic Technologist	37.13
12311 - Registered Nurse I	30.40

12312 - Registered Nurse II	36.78
12313 - Registered Nurse II, Specialist	36.78
12314 - Registered Nurse III	44.14
12315 - Registered Nurse III, Anesthetist	44.14
12316 - Registered Nurse IV	52.91
12317 - Scheduler (Drug and Alcohol Testing)	31.36
12320 - Substance Abuse Treatment Counselor	28.68
13000 - Information And Arts Occupations	
13011 - Exhibits Specialist I	24.30
13012 - Exhibits Specialist II	30.10
13013 - Exhibits Specialist III	36.82
13041 - Illustrator I	22.26
13042 - Illustrator II	27.57
13043 - Illustrator III	33.73
13047 - Librarian	42.46
13050 - Library Aide/Clerk	17.98
13054 - Library Information Technology Systems Administrator	38.33
13058 - Library Technician	23.37
13061 - Media Specialist I	27.67
13062 - Media Specialist II	30.94
13063 - Media Specialist III	34.50
13071 - Photographer I	20.30
13072 - Photographer II	22.87
13073 - Photographer III	28.64
13074 - Photographer IV	34.67
13075 - Photographer V	41.62
13090 - Technical Order Library Clerk	22.57
13110 - Video Teleconference Technician	30.04
14000 - Information Technology Occupations	
14041 - Computer Operator I	22.89
14042 - Computer Operator II	25.63
14043 - Computer Operator III	28.56
14044 - Computer Operator IV	31.72
14045 - Computer Operator V	35.16
14071 - Computer Programmer I	(see 1) 26.99
14072 - Computer Programmer II	(see 1)
14073 - Computer Programmer III	(see 1)
14074 - Computer Programmer IV	(see 1)
14101 - Computer Systems Analyst I	(see 1)
14102 - Computer Systems Analyst II	(see 1)
14103 - Computer Systems Analyst III	(see 1)
14150 - Peripheral Equipment Operator	22.89
14160 - Personal Computer Support Technician	31.72
14170 - System Support Specialist	38.69
15000 - Instructional Occupations	
15010 - Aircrew Training Devices Instructor (Non-Rated)	36.47
15020 - Aircrew Training Devices Instructor (Rated)	44.06
15030 - Air Crew Training Devices Instructor (Pilot)	52.81
15050 - Computer Based Training Specialist / Instructor	36.47
15060 - Educational Technologist	46.20
15070 - Flight Instructor (Pilot)	52.81
15080 - Graphic Artist	36.01
15085 - Maintenance Test Pilot, Fixed, Jet/Prop	51.76
15086 - Maintenance Test Pilot, Rotary Wing	51.76



15088 - Non-Maintenance Test/Co-Pilot	51.76
15090 - Technical Instructor	31.61
15095 - Technical Instructor/Course Developer	38.67
15110 - Test Proctor	25.52
15120 - Tutor	25.52
16000 - Laundry, Dry-Cleaning, Pressing And Related Occupations	
16010 - Assembler	17.13
16030 - Counter Attendant	17.13
16040 - Dry Cleaner	19.57
16070 - Finisher, Flatwork, Machine	17.13
16090 - Presser, Hand	17.13
16110 - Presser, Machine, Drycleaning	17.13
16130 - Presser, Machine, Shirts	17.13
16160 - Presser, Machine, Wearing Apparel, Laundry	17.13
16190 - Sewing Machine Operator	20.38
16220 - Tailor	21.20
16250 - Washer, Machine	17.94
19000 - Machine Tool Operation And Repair Occupations	
19010 - Machine-Tool Operator (Tool Room)	29.55
19040 - Tool And Die Maker	35.89
21000 - Materials Handling And Packing Occupations	
21020 - Forklift Operator	22.18
21030 - Material Coordinator	26.81
21040 - Material Expediter	26.81
21050 - Material Handling Laborer	15.98***
21071 - Order Filler	16.60
21080 - Production Line Worker (Food Processing)	22.18
21110 - Shipping Packer	18.17
21130 - Shipping/Receiving Clerk	18.17
21140 - Store Worker I	16.31
21150 - Stock Clerk	20.29
21210 - Tools And Parts Attendant	22.18
21410 - Warehouse Specialist	22.18
23000 - Mechanics And Maintenance And Repair Occupations	
23010 - Aerospace Structural Welder	40.71
23019 - Aircraft Logs and Records Technician	32.27
23021 - Aircraft Mechanic I	38.65
23022 - Aircraft Mechanic II	40.71
23023 - Aircraft Mechanic III	42.69
23040 - Aircraft Mechanic Helper	27.20
23050 - Aircraft, Painter	36.70
23060 - Aircraft Servicer	32.27
23070 - Aircraft Survival Flight Equipment Technician	36.70
23080 - Aircraft Worker	34.57
23091 - Aircrew Life Support Equipment (ALSE) Mechanic I	34.57
23092 - Aircrew Life Support Equipment (ALSE) Mechanic II	38.65
23110 - Appliance Mechanic	22.74
23120 - Bicycle Repairer	17.40
23125 - Cable Splicer	36.39
23130 - Carpenter, Maintenance	27.29
23140 - Carpet Layer	22.54
23160 - Electrician, Maintenance	29.95
23181 - Electronics Technician Maintenance I	32.91
23182 - Electronics Technician Maintenance II	34.94
23183 - Electronics Technician Maintenance III	36.78

23260 - Fabric Worker	25.98
23290 - Fire Alarm System Mechanic	29.84
23310 - Fire Extinguisher Repairer	23.94
23311 - Fuel Distribution System Mechanic	37.07
23312 - Fuel Distribution System Operator	28.53
23370 - General Maintenance Worker	23.48
23380 - Ground Support Equipment Mechanic	38.65
23381 - Ground Support Equipment Servicer	32.27
23382 - Ground Support Equipment Worker	34.57
23391 - Gunsmith I	23.94
23392 - Gunsmith II	27.83
23393 - Gunsmith III	31.11
23410 - Heating, Ventilation And Air-Conditioning Mechanic	30.17
23411 - Heating, Ventilation And Air Contidioning Mechanic (Research Facility)	31.78
23430 - Heavy Equipment Mechanic	29.18
23440 - Heavy Equipment Operator	26.20
23460 - Instrument Mechanic	33.14
23465 - Laboratory/Shelter Mechanic	29.55
23470 - Laborer	16.48
23510 - Locksmith	32.72
23530 - Machinery Maintenance Mechanic	30.29
23550 - Machinist, Maintenance	30.16
23580 - Maintenance Trades Helper	18.27
23591 - Metrology Technician I	33.14
23592 - Metrology Technician II	34.91
23593 - Metrology Technician III	36.61
23640 - Millwright	29.89
23710 - Office Appliance Repairer	22.96
23760 - Painter, Maintenance	22.38
23790 - Pipefitter, Maintenance	30.60
23810 - Plumber, Maintenance	29.07
23820 - Pneudraulic Systems Mechanic	31.11
23850 - Rigger	31.05
23870 - Scale Mechanic	27.83
23890 - Sheet-Metal Worker, Maintenance	29.04
23910 - Small Engine Mechanic	22.69
23931 - Telecommunications Mechanic I	37.06
23932 - Telecommunications Mechanic II	39.03
23950 - Telephone Lineman	37.13
23960 - Welder, Combination, Maintenance	27.58
23965 - Well Driller	27.13
23970 - Woodcraft Worker	31.11
23980 - Woodworker	23.94
24000 - Personal Needs Occupations	
24550 - Case Manager	20.75
24570 - Child Care Attendant	15.17***
24580 - Child Care Center Clerk	18.91
24610 - Chore Aide	14.42***
24620 - Family Readiness And Support Services Coordinator	20.75
24630 - Homemaker	20.75
25000 - Plant And System Operations Occupations	
25010 - Boiler Tender	37.98

25040 - Sewage Plant Operator		28.29
25070 - Stationary Engineer		37.98
25190 - Ventilation Equipment Tender		26.74
25210 - Water Treatment Plant Operator		28.29
27000 - Protective Service Occupations		
27004 - Alarm Monitor		23.83
27007 - Baggage Inspector		19.39
27008 - Corrections Officer		29.35
27010 - Court Security Officer		30.66
27030 - Detection Dog Handler		21.69
27040 - Detention Officer		29.35
27070 - Firefighter		31.96
27101 - Guard I		19.39
27102 - Guard II		21.69
27131 - Police Officer I		33.25
27132 - Police Officer II		36.96
28000 - Recreation Occupations		
28041 - Carnival Equipment Operator		16.91
28042 - Carnival Equipment Repairer		18.48
28043 - Carnival Worker		12.94***
28210 - Gate Attendant/Gate Tender		18.07
28310 - Lifeguard		12.75***
28350 - Park Attendant (Aide)		20.22
28510 - Recreation Aide/Health Facility Attendant		14.76***
28515 - Recreation Specialist		25.05
28630 - Sports Official		16.10***
28690 - Swimming Pool Operator		21.48
29000 - Stevedoring/Longshoremen Occupational Services		
29010 - Blocker And Bracer		34.82
29020 - Hatch Tender		34.82
29030 - Line Handler		34.82
29041 - Stevedore I		32.51
29042 - Stevedore II		36.97
30000 - Technical Occupations		
30010 - Air Traffic Control Specialist, Center (HFO)	(see 2)	46.70
30011 - Air Traffic Control Specialist, Station (HFO)	(see 2)	32.20
30012 - Air Traffic Control Specialist, Terminal (HFO)	(see 2)	35.47
30021 - Archeological Technician I		20.86
30022 - Archeological Technician II		23.34
30023 - Archeological Technician III		28.90
30030 - Cartographic Technician		28.90
30040 - Civil Engineering Technician		32.88
30051 - Cryogenic Technician I		32.01
30052 - Cryogenic Technician II		35.36
30061 - Drafter/CAD Operator I		20.86
30062 - Drafter/CAD Operator II		23.34
30063 - Drafter/CAD Operator III		26.01
30064 - Drafter/CAD Operator IV		32.01
30081 - Engineering Technician I		22.92
30082 - Engineering Technician II		25.72
30083 - Engineering Technician III		28.79
30084 - Engineering Technician IV		35.64
30085 - Engineering Technician V		43.61
30086 - Engineering Technician VI		52.76
30090 - Environmental Technician		28.90

30095 - Evidence Control Specialist		28.90
30210 - Laboratory Technician		28.21
30221 - Latent Fingerprint Technician I		37.63
30222 - Latent Fingerprint Technician II		41.56
30240 - Mathematical Technician		35.01
30361 - Paralegal/Legal Assistant I		23.32
30362 - Paralegal/Legal Assistant II		28.90
30363 - Paralegal/Legal Assistant III		35.35
30364 - Paralegal/Legal Assistant IV		42.76
30375 - Petroleum Supply Specialist		35.36
30390 - Photo-Optics Technician		28.90
30395 - Radiation Control Technician		35.36
30461 - Technical Writer I		28.83
30462 - Technical Writer II		35.27
30463 - Technical Writer III		42.68
30491 - Unexploded Ordnance (UXO) Technician I		29.68
30492 - Unexploded Ordnance (UXO) Technician II		35.91
30493 - Unexploded Ordnance (UXO) Technician III		43.04
30494 - Unexploded (UXO) Safety Escort		29.68
30495 - Unexploded (UXO) Sweep Personnel		29.68
30501 - Weather Forecaster I		32.01
30502 - Weather Forecaster II		38.93
30620 - Weather Observer, Combined Upper Air Or Surface Programs	(see 2)	26.01
30621 - Weather Observer, Senior	(see 2)	28.90
31000 - Transportation/Mobile Equipment Operation Occupations		
31010 - Airplane Pilot		35.91
31020 - Bus Aide		16.18***
31030 - Bus Driver		23.52
31043 - Driver Courier		20.34
31260 - Parking and Lot Attendant		15.09***
31290 - Shuttle Bus Driver		19.93
31310 - Taxi Driver		17.71
31361 - Truckdriver, Light		22.24
31362 - Truckdriver, Medium		24.14
31363 - Truckdriver, Heavy		23.78
31364 - Truckdriver, Tractor-Trailer		23.78
99000 - Miscellaneous Occupations		
99020 - Cabin Safety Specialist		17.51
99030 - Cashier		13.79***
99050 - Desk Clerk		14.61***
99095 - Embalmer		34.10
99130 - Flight Follower		29.68
99251 - Laboratory Animal Caretaker I		16.35
99252 - Laboratory Animal Caretaker II		17.88
99260 - Marketing Analyst		37.55
99310 - Mortician		34.10
99410 - Pest Controller		21.91
99510 - Photofinishing Worker		18.65
99710 - Recycling Laborer		22.98
99711 - Recycling Specialist		28.16
99730 - Refuse Collector		20.81
99810 - Sales Clerk		14.24***
99820 - School Crossing Guard		18.02
99830 - Survey Party Chief		31.00

99831 - Surveying Aide	19.26
99832 - Surveying Technician	29.45
99840 - Vending Machine Attendant	17.03
99841 - Vending Machine Repairer	21.64
99842 - Vending Machine Repairer Helper	17.03

\*\*\*Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16.20 per hour) or 13658 (\$12.15 per hour). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 and 13658 are not currently being enforced as to contracts or contract-like instruments entered into with the federal government in connection with seasonal recreational services or seasonal recreational equipment rental for the general public on federal lands.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors, applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is the victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

#### ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$4.80 per hour, up to 40 hours per week, or \$192.00 per week or \$832.00 per month

HEALTH & WELFARE EO 13706: \$4.41 per hour, up to 40 hours per week, or \$176.40 per week, or \$764.40 per month\*

\*This rate is to be used only when compensating employees for performance on an SCA-covered contract also covered by EO 13706, Establishing Paid Sick Leave for Federal Contractors. A contractor may not receive credit toward its SCA obligations for any paid sick leave provided pursuant to EO 13706.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor, 3 weeks after 5 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of eleven paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Juneteenth National Independence Day, Independence Day, Labor Day, Columbus Day, Veterans'

Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) **COMPUTER EMPLOYEES:** This wage determination does not apply to any individual employed in a bona fide executive, administrative, or professional capacity, as defined in 29 C.F.R. Part 541. (See 41 C.F.R. 6701(3)). Because most Computer Systems Analysts and Computer Programmers who are paid at least \$27.63 per hour (or at least \$684 per week if paid on a salary or fee basis) likely qualify as exempt computer professionals under 29 U.S.C. 213(a)(1) and 29 U.S.C. 213(a)(17), this wage determination may not include wage rates for all occupations within those job families. In such instances, a conformance will be necessary if there are nonexempt employees in these job families working on the contract.

Job titles vary widely and change quickly in the computer industry, and are not determinative of whether an employee is an exempt computer professional. To be exempt, computer employees who satisfy the compensation requirements must also have a primary duty that consists of:

(1) The application of systems analysis techniques and procedures, including consulting with users, to determine hardware, software or system functional specifications;

(2) The design, development, documentation, analysis, creation, testing or modification of computer systems or programs, including prototypes, based on and related to user or system design specifications;

(3) The design, documentation, testing, creation or modification of computer programs related to machine operating systems; or

(4) A combination of the aforementioned duties, the performance of which requires the same level of skills. (29 C.F.R. 541.400).

Any computer employee who meets the applicable compensation requirements and the above duties test qualifies as an exempt computer professional under both section 13(a)(1) and section 13(a)(17) of the Fair Labor Standards Act. (Field Assistance Bulletin No. 2006-3 (Dec. 14, 2006)). Accordingly, this wage determination will not apply to any exempt computer employee regardless of which of these two exemptions is utilized.

2) **AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY:** If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

**\*\* HAZARDOUS PAY DIFFERENTIAL \*\***

An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder.

All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving re-grading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**\*\* UNIFORM ALLOWANCE \*\***

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

**\*\* SERVICE CONTRACT ACT DIRECTORY OF OCCUPATIONS \*\***

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations", Fifth Edition (Revision 1), dated September 2015, unless otherwise indicated.

**\*\* REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE, Standard**

Form 1444 (SF-1444) \*\*

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination (See 29 CFR 4.6(b)(2)(i)). Such conforming procedures shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees (See 29 CFR 4.6(b)(2)(ii)). The Wage and Hour Division shall make a final determination of conformed classification, wage rate, and/or fringe benefits which shall be paid to all employees performing in the classification from the first day of work on which contract work is performed by them in the classification. Failure to pay such unlisted employees the compensation agreed upon by the interested parties and/or fully determined by the Wage and Hour Division retroactive to the date such class of employees commenced contract work shall be a violation of the Act and this contract. (See 29 CFR 4.6(b)(2)(v)). When multiple wage determinations are included in a contract, a separate SF-1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order the proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the U.S. Department of Labor, Wage and Hour Division, for review (See 29 CFR 4.6(b)(2)(ii)).
- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour Division's decision to the contractor.
- 6) Each affected employee shall be furnished by the contractor with a written copy of such determination or it shall be posted as a part of the wage determination (See 29 CFR 4.6(b)(2)(iii)).

Information required by the Regulations must be submitted on SF-1444 or bond paper.



When preparing a conformance request, the ""Service Contract Act Directory of Occupations"" should be used to compare job definitions to ensure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination (See 29 CFR 4.152(c)(1))."

SERVICE CONTRACT - 2015-4265

"REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT By direction of the Secretary of Labor		U.S. DEPARTMENT OF LABOR EMPLOYMENT STANDARDS ADMINISTRATION WAGE AND HOUR DIVISION WASHINGTON D.C. 20210
Daniel W. Simms Director	Division of Wage Determinations	Wage Determination No.: 2015-4281 Revision No.: 25 Date Of Last Revision: 12/27/2022

Note: Contracts subject to the Service Contract Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658.

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.

The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under the Executive Orders is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

States: District of Columbia, Maryland, Virginia

Area: District of Columbia Statewide  
Maryland Counties of Calvert, Charles, Prince George's  
Virginia Counties of Alexandria, Arlington, Fairfax, Falls Church, Fauquier, Loudoun, Manassas, Manassas Park, Prince William, Stafford

## \*\*Fringe Benefits Required Follow the Occupational Listing\*\*

OCCUPATION CODE - TITLE	FOOTNOTE	RATE
01000 - Administrative Support And Clerical Occupations		
01011 - Accounting Clerk I		19.39
01012 - Accounting Clerk II		21.79
01013 - Accounting Clerk III		24.36
01020 - Administrative Assistant		37.47
01035 - Court Reporter		28.71
01041 - Customer Service Representative I		16.73
01042 - Customer Service Representative II		18.25
01043 - Customer Service Representative III		20.48
01051 - Data Entry Operator I		16.64
01052 - Data Entry Operator II		18.16
01060 - Dispatcher, Motor Vehicle		23.00
01070 - Document Preparation Clerk		18.23
01090 - Duplicating Machine Operator		18.23
01111 - General Clerk I		17.51
01112 - General Clerk II		19.12
01113 - General Clerk III		21.47
01120 - Housing Referral Assistant		25.33
01141 - Messenger Courier		19.79
01191 - Order Clerk I		16.71
01192 - Order Clerk II		18.23
01261 - Personnel Assistant (Employment) I		19.76
01262 - Personnel Assistant (Employment) II		22.10
01263 - Personnel Assistant (Employment) III		24.63
01270 - Production Control Clerk		26.81
01290 - Rental Clerk		18.17
01300 - Scheduler, Maintenance		20.31
01311 - Secretary I		20.31
01312 - Secretary II		22.72
01313 - Secretary III		25.33
01320 - Service Order Dispatcher		20.56
01410 - Supply Technician		37.47
01420 - Survey Worker		21.30
01460 - Switchboard Operator/Receptionist		17.45
01531 - Travel Clerk I		19.03
01532 - Travel Clerk II		20.71
01533 - Travel Clerk III		22.45
01611 - Word Processor I		18.62
01612 - Word Processor II		20.92
01613 - Word Processor III		23.39
05000 - Automotive Service Occupations		
05005 - Automobile Body Repairer, Fiberglass		28.60
05010 - Automotive Electrician		26.35
05040 - Automotive Glass Installer		24.82
05070 - Automotive Worker		24.82
05110 - Mobile Equipment Servicer		21.35
05130 - Motor Equipment Metal Mechanic		27.74
05160 - Motor Equipment Metal Worker		24.82
05190 - Motor Vehicle Mechanic		27.74
05220 - Motor Vehicle Mechanic Helper		19.53

05250 - Motor Vehicle Upholstery Worker	23.17
05280 - Motor Vehicle Wrecker	24.82
05310 - Painter, Automotive	26.35
05340 - Radiator Repair Specialist	24.82
05370 - Tire Repairer	15.88***
05400 - Transmission Repair Specialist	27.74
07000 - Food Preparation And Service Occupations	
07010 - Baker	17.31
07041 - Cook I	17.78
07042 - Cook II	20.67
07070 - Dishwasher	14.59***
07130 - Food Service Worker	14.77***
07210 - Meat Cutter	20.41
07260 - Waiter/Waitress	14.12***
09000 - Furniture Maintenance And Repair Occupations	
09010 - Electrostatic Spray Painter	23.06
09040 - Furniture Handler	14.06***
09080 - Furniture Refinisher	22.12
09090 - Furniture Refinisher Helper	16.39
09110 - Furniture Repairer, Minor	19.45
09130 - Upholsterer	19.86
11000 - General Services And Support Occupations	
11030 - Cleaner, Vehicles	14.32***
11060 - Elevator Operator	15.64***
11090 - Gardener	23.36
11122 - Housekeeping Aide	15.64***
11150 - Janitor	15.64***
11210 - Laborer, Grounds Maintenance	17.44
11240 - Maid or Houseman	14.58***
11260 - Pruner	16.35
11270 - Tractor Operator	21.37
11330 - Trail Maintenance Worker	17.44
11360 - Window Cleaner	16.64
12000 - Health Occupations	
12010 - Ambulance Driver	23.71
12011 - Breath Alcohol Technician	25.31
12012 - Certified Occupational Therapist Assistant	35.59
12015 - Certified Physical Therapist Assistant	30.02
12020 - Dental Assistant	23.78
12025 - Dental Hygienist	50.57
12030 - EKG Technician	37.13
12035 - Electroneurodiagnostic Technologist	37.13
12040 - Emergency Medical Technician	23.71
12071 - Licensed Practical Nurse I	22.63
12072 - Licensed Practical Nurse II	25.31
12073 - Licensed Practical Nurse III	28.22
12100 - Medical Assistant	18.95
12130 - Medical Laboratory Technician	28.82
12160 - Medical Record Clerk	22.95
12190 - Medical Record Technician	27.06
12195 - Medical Transcriptionist	20.72
12210 - Nuclear Medicine Technologist	43.13
12221 - Nursing Assistant I	13.87***
12222 - Nursing Assistant II	15.59***
12223 - Nursing Assistant III	17.01

12224 - Nursing Assistant IV	19.11
12235 - Optical Dispenser	25.02
12236 - Optical Technician	21.36
12250 - Pharmacy Technician	18.40
12280 - Phlebotomist	21.37
12305 - Radiologic Technologist	37.13
12311 - Registered Nurse I	30.40
12312 - Registered Nurse II	36.78
12313 - Registered Nurse II, Specialist	36.78
12314 - Registered Nurse III	44.14
12315 - Registered Nurse III, Anesthetist	44.14
12316 - Registered Nurse IV	52.91
12317 - Scheduler (Drug and Alcohol Testing)	31.36
12320 - Substance Abuse Treatment Counselor	28.68
13000 - Information And Arts Occupations	
13011 - Exhibits Specialist I	24.30
13012 - Exhibits Specialist II	30.10
13013 - Exhibits Specialist III	36.82
13041 - Illustrator I	22.26
13042 - Illustrator II	27.57
13043 - Illustrator III	33.73
13047 - Librarian	42.46
13050 - Library Aide/Clerk	17.98
13054 - Library Information Technology Systems Administrator	38.33
13058 - Library Technician	23.37
13061 - Media Specialist I	27.67
13062 - Media Specialist II	30.94
13063 - Media Specialist III	34.50
13071 - Photographer I	20.30
13072 - Photographer II	22.87
13073 - Photographer III	28.64
13074 - Photographer IV	34.67
13075 - Photographer V	41.62
13090 - Technical Order Library Clerk	22.57
13110 - Video Teleconference Technician	30.04
14000 - Information Technology Occupations	
14041 - Computer Operator I	22.89
14042 - Computer Operator II	25.63
14043 - Computer Operator III	28.56
14044 - Computer Operator IV	31.72
14045 - Computer Operator V	35.16
14071 - Computer Programmer I	(see 1) 26.99
14072 - Computer Programmer II	(see 1)
14073 - Computer Programmer III	(see 1)
14074 - Computer Programmer IV	(see 1)
14101 - Computer Systems Analyst I	(see 1)
14102 - Computer Systems Analyst II	(see 1)
14103 - Computer Systems Analyst III	(see 1)
14150 - Peripheral Equipment Operator	22.89
14160 - Personal Computer Support Technician	31.72
14170 - System Support Specialist	38.69
15000 - Instructional Occupations	
15010 - Aircrew Training Devices Instructor (Non-Rated)	36.47
15020 - Aircrew Training Devices Instructor (Rated)	44.06

15030 - Air Crew Training Devices Instructor (Pilot)	52.81
15050 - Computer Based Training Specialist / Instructor	36.47
15060 - Educational Technologist	46.20
15070 - Flight Instructor (Pilot)	52.81
15080 - Graphic Artist	36.01
15085 - Maintenance Test Pilot, Fixed, Jet/Prop	51.76
15086 - Maintenance Test Pilot, Rotary Wing	51.76
15088 - Non-Maintenance Test/Co-Pilot	51.76
15090 - Technical Instructor	31.61
15095 - Technical Instructor/Course Developer	38.67
15110 - Test Proctor	25.52
15120 - Tutor	25.52
16000 - Laundry, Dry-Cleaning, Pressing And Related Occupations	
16010 - Assembler	17.13
16030 - Counter Attendant	17.13
16040 - Dry Cleaner	19.57
16070 - Finisher, Flatwork, Machine	17.13
16090 - Presser, Hand	17.13
16110 - Presser, Machine, Drycleaning	17.13
16130 - Presser, Machine, Shirts	17.13
16160 - Presser, Machine, Wearing Apparel, Laundry	17.13
16190 - Sewing Machine Operator	20.38
16220 - Tailor	21.20
16250 - Washer, Machine	17.94
19000 - Machine Tool Operation And Repair Occupations	
19010 - Machine-Tool Operator (Tool Room)	29.55
19040 - Tool And Die Maker	35.89
21000 - Materials Handling And Packing Occupations	
21020 - Forklift Operator	22.18
21030 - Material Coordinator	26.81
21040 - Material Expediter	26.81
21050 - Material Handling Laborer	15.98***
21071 - Order Filler	16.60
21080 - Production Line Worker (Food Processing)	22.18
21110 - Shipping Packer	18.17
21130 - Shipping/Receiving Clerk	18.17
21140 - Store Worker I	16.31
21150 - Stock Clerk	20.29
21210 - Tools And Parts Attendant	22.18
21410 - Warehouse Specialist	22.18
23000 - Mechanics And Maintenance And Repair Occupations	
23010 - Aerospace Structural Welder	40.71
23019 - Aircraft Logs and Records Technician	32.27
23021 - Aircraft Mechanic I	38.65
23022 - Aircraft Mechanic II	40.71
23023 - Aircraft Mechanic III	42.69
23040 - Aircraft Mechanic Helper	27.20
23050 - Aircraft, Painter	36.70
23060 - Aircraft Servicer	32.27
23070 - Aircraft Survival Flight Equipment Technician	36.70
23080 - Aircraft Worker	34.57
23091 - Aircrew Life Support Equipment (ALSE) Mechanic I	34.57
23092 - Aircrew Life Support Equipment (ALSE) Mechanic II	38.65
23110 - Appliance Mechanic	22.74
23120 - Bicycle Repairer	17.40

23125 - Cable Splicer	36.39
23130 - Carpenter, Maintenance	27.29
23140 - Carpet Layer	22.54
23160 - Electrician, Maintenance	29.95
23181 - Electronics Technician Maintenance I	32.91
23182 - Electronics Technician Maintenance II	34.94
23183 - Electronics Technician Maintenance III	36.78
23260 - Fabric Worker	25.98
23290 - Fire Alarm System Mechanic	29.84
23310 - Fire Extinguisher Repairer	23.94
23311 - Fuel Distribution System Mechanic	37.07
23312 - Fuel Distribution System Operator	28.53
23370 - General Maintenance Worker	23.48
23380 - Ground Support Equipment Mechanic	38.65
23381 - Ground Support Equipment Servicer	32.27
23382 - Ground Support Equipment Worker	34.57
23391 - Gunsmith I	23.94
23392 - Gunsmith II	27.83
23393 - Gunsmith III	31.11
23410 - Heating, Ventilation And Air-Conditioning Mechanic	30.17
23411 - Heating, Ventilation And Air Conditioning Mechanic (Research Facility)	31.78
23430 - Heavy Equipment Mechanic	29.18
23440 - Heavy Equipment Operator	26.20
23460 - Instrument Mechanic	33.14
23465 - Laboratory/Shelter Mechanic	29.55
23470 - Laborer	16.48
23510 - Locksmith	32.72
23530 - Machinery Maintenance Mechanic	30.29
23550 - Machinist, Maintenance	30.16
23580 - Maintenance Trades Helper	18.27
23591 - Metrology Technician I	33.14
23592 - Metrology Technician II	34.91
23593 - Metrology Technician III	36.61
23640 - Millwright	29.89
23710 - Office Appliance Repairer	22.96
23760 - Painter, Maintenance	22.38
23790 - Pipefitter, Maintenance	30.60
23810 - Plumber, Maintenance	29.07
23820 - Pneudraulic Systems Mechanic	31.11
23850 - Rigger	31.05
23870 - Scale Mechanic	27.83
23890 - Sheet-Metal Worker, Maintenance	29.04
23910 - Small Engine Mechanic	22.69
23931 - Telecommunications Mechanic I	37.06
23932 - Telecommunications Mechanic II	39.03
23950 - Telephone Lineman	37.13
23960 - Welder, Combination, Maintenance	27.58
23965 - Well Driller	27.13
23970 - Woodcraft Worker	31.11
23980 - Woodworker	23.94
24000 - Personal Needs Occupations	
24550 - Case Manager	20.75
24570 - Child Care Attendant	15.17***

24580 - Child Care Center Clerk		18.91
24610 - Chore Aide		14.42***
24620 - Family Readiness And Support Services Coordinator		20.75
24630 - Homemaker		20.75
25000 - Plant And System Operations Occupations		
25010 - Boiler Tender		37.98
25040 - Sewage Plant Operator		28.29
25070 - Stationary Engineer		37.98
25190 - Ventilation Equipment Tender		26.74
25210 - Water Treatment Plant Operator		28.29
27000 - Protective Service Occupations		
27004 - Alarm Monitor		23.83
27007 - Baggage Inspector		19.39
27008 - Corrections Officer		29.35
27010 - Court Security Officer		30.66
27030 - Detection Dog Handler		21.69
27040 - Detention Officer		29.35
27070 - Firefighter		31.96
27101 - Guard I		19.39
27102 - Guard II		21.69
27131 - Police Officer I		33.25
27132 - Police Officer II		36.96
28000 - Recreation Occupations		
28041 - Carnival Equipment Operator		16.91
28042 - Carnival Equipment Repairer		18.48
28043 - Carnival Worker		12.94***
28210 - Gate Attendant/Gate Tender		18.07
28310 - Lifeguard		12.75***
28350 - Park Attendant (Aide)		20.22
28510 - Recreation Aide/Health Facility Attendant		14.76***
28515 - Recreation Specialist		25.05
28630 - Sports Official		16.10***
28690 - Swimming Pool Operator		21.48
29000 - Stevedoring/Longshoremen Occupational Services		
29010 - Blocker And Bracer		34.82
29020 - Hatch Tender		34.82
29030 - Line Handler		34.82
29041 - Stevedore I		32.51
29042 - Stevedore II		36.97
30000 - Technical Occupations		
30010 - Air Traffic Control Specialist, Center (HFO)	(see 2)	46.70
30011 - Air Traffic Control Specialist, Station (HFO)	(see 2)	32.20
30012 - Air Traffic Control Specialist, Terminal (HFO)	(see 2)	35.47
30021 - Archeological Technician I		20.86
30022 - Archeological Technician II		23.34
30023 - Archeological Technician III		28.90
30030 - Cartographic Technician		28.90
30040 - Civil Engineering Technician		32.88
30051 - Cryogenic Technician I		32.01
30052 - Cryogenic Technician II		35.36
30061 - Drafter/CAD Operator I		20.86
30062 - Drafter/CAD Operator II		23.34
30063 - Drafter/CAD Operator III		26.01
30064 - Drafter/CAD Operator IV		32.01

30081 - Engineering Technician I	22.92
30082 - Engineering Technician II	25.72
30083 - Engineering Technician III	28.79
30084 - Engineering Technician IV	35.64
30085 - Engineering Technician V	43.61
30086 - Engineering Technician VI	52.76
30090 - Environmental Technician	28.90
30095 - Evidence Control Specialist	28.90
30210 - Laboratory Technician	28.21
30221 - Latent Fingerprint Technician I	37.63
30222 - Latent Fingerprint Technician II	41.56
30240 - Mathematical Technician	35.01
30361 - Paralegal/Legal Assistant I	23.32
30362 - Paralegal/Legal Assistant II	28.90
30363 - Paralegal/Legal Assistant III	35.35
30364 - Paralegal/Legal Assistant IV	42.76
30375 - Petroleum Supply Specialist	35.36
30390 - Photo-Optics Technician	28.90
30395 - Radiation Control Technician	35.36
30461 - Technical Writer I	28.83
30462 - Technical Writer II	35.27
30463 - Technical Writer III	42.68
30491 - Unexploded Ordnance (UXO) Technician I	29.68
30492 - Unexploded Ordnance (UXO) Technician II	35.91
30493 - Unexploded Ordnance (UXO) Technician III	43.04
30494 - Unexploded (UXO) Safety Escort	29.68
30495 - Unexploded (UXO) Sweep Personnel	29.68
30501 - Weather Forecaster I	32.01
30502 - Weather Forecaster II	38.93
30620 - Weather Observer, Combined Upper Air Or Surface Programs	(see 2) 26.01
30621 - Weather Observer, Senior	(see 2) 28.90
31000 - Transportation/Mobile Equipment Operation Occupations	
31010 - Airplane Pilot	35.91
31020 - Bus Aide	16.18***
31030 - Bus Driver	23.52
31043 - Driver Courier	20.34
31260 - Parking and Lot Attendant	15.09***
31290 - Shuttle Bus Driver	19.93
31310 - Taxi Driver	17.71
31361 - Truckdriver, Light	22.24
31362 - Truckdriver, Medium	24.14
31363 - Truckdriver, Heavy	23.78
31364 - Truckdriver, Tractor-Trailer	23.78
99000 - Miscellaneous Occupations	
99020 - Cabin Safety Specialist	17.51
99030 - Cashier	13.79***
99050 - Desk Clerk	14.61***
99095 - Embalmer	34.10
99130 - Flight Follower	29.68
99251 - Laboratory Animal Caretaker I	16.35
99252 - Laboratory Animal Caretaker II	17.88
99260 - Marketing Analyst	37.55
99310 - Mortician	34.10
99410 - Pest Controller	21.91



99510 - Photofinishing Worker	18.65
99710 - Recycling Laborer	22.98
99711 - Recycling Specialist	28.16
99730 - Refuse Collector	20.81
99810 - Sales Clerk	14.24***
99820 - School Crossing Guard	18.02
99830 - Survey Party Chief	31.00
99831 - Surveying Aide	19.26
99832 - Surveying Technician	29.45
99840 - Vending Machine Attendant	17.03
99841 - Vending Machine Repairer	21.64
99842 - Vending Machine Repairer Helper	17.03

\*\*\*Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$16.20 per hour) or 13658 (\$12.15 per hour). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 and 13658 are not currently being enforced as to contracts or contract-like instruments entered into with the federal government in connection with seasonal recreational services or seasonal recreational equipment rental for the general public on federal lands.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors, applies to all contracts subject to the Service Contract Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is the victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

#### ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: \$4.80 per hour, up to 40 hours per week, or \$192.00 per week or \$832.00 per month

HEALTH & WELFARE EO 13706: \$4.41 per hour, up to 40 hours per week, or \$176.40 per week, or \$764.40 per month\*

\*This rate is to be used only when compensating employees for performance on an SCA-covered contract also covered by EO 13706, Establishing Paid Sick Leave for Federal Contractors. A contractor may not receive credit toward its SCA obligations for any paid sick leave provided pursuant to EO 13706.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor, 3 weeks after 5 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of eleven paid holidays per year: New Year's Day, Martin Luther King Jr.'s Birthday, Washington's Birthday, Memorial Day, Juneteenth

National Independence Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4.174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) **COMPUTER EMPLOYEES:** This wage determination does not apply to any individual employed in a bona fide executive, administrative, or professional capacity, as defined in 29 C.F.R. Part 541. (See 41 C.F.R. 6701(3)). Because most Computer Systems Analysts and Computer Programmers who are paid at least \$27.63 per hour (or at least \$684 per week if paid on a salary or fee basis) likely qualify as exempt computer professionals under 29 U.S.C. 213(a)(1) and 29 U.S.C. 213(a)(17), this wage determination may not include wage rates for all occupations within those job families. In such instances, a conformance will be necessary if there are nonexempt employees in these job families working on the contract.

Job titles vary widely and change quickly in the computer industry, and are not determinative of whether an employee is an exempt computer professional. To be exempt, computer employees who satisfy the compensation requirements must also have a primary duty that consists of:

(1) The application of systems analysis techniques and procedures, including consulting with users, to determine hardware, software or system functional specifications;

(2) The design, development, documentation, analysis, creation, testing or modification of computer systems or programs, including prototypes, based on and related to user or system design specifications;

(3) The design, documentation, testing, creation or modification of computer programs related to machine operating systems; or

(4) A combination of the aforementioned duties, the performance of which requires the same level of skills. (29 C.F.R. 541.400).

Any computer employee who meets the applicable compensation requirements and the above duties test qualifies as an exempt computer professional under both section 13(a)(1) and section 13(a)(17) of the Fair Labor Standards Act. (Field Assistance Bulletin No. 2006-3 (Dec. 14, 2006)). Accordingly, this wage determination will not apply to any exempt computer employee regardless of which of these two exemptions is utilized.

2) **AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY:** If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

**\*\* HAZARDOUS PAY DIFFERENTIAL \*\***

An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordnance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordnance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving re-grading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordnance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordnance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordnance, explosives, and incendiary material differential pay.

**\*\* UNIFORM ALLOWANCE \*\***

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of \$3.35 per week (or \$.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

**\*\* SERVICE CONTRACT ACT DIRECTORY OF OCCUPATIONS \*\***

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations", Fifth Edition (Revision 1), dated September 2015, unless otherwise indicated.

**\*\* REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE, Standard Form 1444 (SF-1444) \*\***

**Conformance Process:**

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination (See 29 CFR 4.6(b)(2)(i)). Such conforming procedures shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees (See 29 CFR 4.6(b)(2)(ii)). The Wage and Hour Division shall make a final determination of conformed classification, wage rate, and/or fringe benefits which shall be paid to all employees performing in the classification from the first day of work on which contract work is performed by them in the classification. Failure to pay such unlisted employees the compensation agreed upon by the interested parties and/or fully determined by the Wage and Hour Division retroactive to the date such class of employees commenced contract work shall be a violation of the Act and this contract. (See 29 CFR 4.6(b)(2)(v)). When multiple wage determinations are included in a contract, a separate SF-1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

- 1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).
- 2) After contract award, the contractor prepares a written report listing in order the proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.
- 3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the U.S. Department of Labor, Wage and Hour Division, for review (See 29 CFR 4.6(b)(2)(ii)).
- 4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.
- 5) The contracting officer transmits the Wage and Hour Division's decision to the contractor.
- 6) Each affected employee shall be furnished by the contractor with a written copy of such determination or it shall be posted as a part of the wage determination (See 29 CFR 4.6(b)(2)(iii)).

Information required by the Regulations must be submitted on SF-1444 or bond paper.

When preparing a conformance request, the ""Service Contract Act Directory of Occupations"" should be used to compare job definitions to ensure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination (See 29 CFR 4.152(c)(1))."

## Section I - Contract Clauses

## CLAUSES INCORPORATED BY REFERENCE

52.202-1	Definitions	JUN 2020
52.203-3	Gratuities	APR 1984
52.203-5	Covenant Against Contingent Fees	MAY 2014
52.203-7	Anti-Kickback Procedures	JUN 2020
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity	MAY 2014
52.203-10	Price Or Fee Adjustment For Illegal Or Improper Activity	MAY 2014
52.203-12	Limitation On Payments To Influence Certain Federal Transactions	JUN 2020
52.203-17	Contractor Employee Whistleblower Rights and Requirement To Inform Employees of Whistleblower Rights	JUN 2020
52.204-4	Printed or Copied Double-Sided on Postconsumer Fiber Content Paper	MAY 2011
52.204-9	Personal Identity Verification of Contractor Personnel	JAN 2011
52.204-13	System for Award Management Maintenance	OCT 2018
52.204-18	Commercial and Government Entity Code Maintenance	AUG 2020
52.204-19	Incorporation by Reference of Representations and Certifications.	DEC 2014
52.210-1	Market Research	NOV 2021
52.211-5	Material Requirements	AUG 2000
52.215-2	Audit and Records--Negotiation	JUN 2020
52.215-23	Limitations on Pass-Through Charges	JUN 2020
52.222-6	Construction Wage Rate Requirements	AUG 2018
52.223-5	Pollution Prevention and Right-to-Know Information	MAY 2011
52.223-6	Drug-Free Workplace	MAY 2001
52.227-1	Authorization and Consent	JUN 2020
52.227-2	Notice And Assistance Regarding Patent And Copyright Infringement	JUN 2020
52.228-5	Insurance - Work On A Government Installation	JAN 1997
52.228-11 (Dev)	Individual Surety--Pledge of Assets (DEVIATION 2020- O0016)	FEB 2021
52.232-1	Payments	APR 1984
52.232-17	Interest	MAY 2014
52.232-18	Availability Of Funds	APR 1984
52.232-22	Limitation Of Funds	APR 1984
52.232-23	Assignment Of Claims	MAY 2014
52.232-25	Prompt Payment	JAN 2017
52.232-39	Unenforceability of Unauthorized Obligations	JUN 2013
52.232-40	Providing Accelerated Payments to Small Business Subcontractors	NOV 2021
52.233-1	Disputes	MAY 2014
52.237-2	Protection Of Government Buildings, Equipment, And Vegetation	APR 1984
52.237-3	Continuity Of Services	JAN 1991
52.242-3	Penalties for Unallowable Costs	SEP 2021
52.242-13	Bankruptcy	JUL 1995
52.242-15	Stop-Work Order	AUG 1989
52.244-5	Competition In Subcontracting	DEC 1996
52.244-6	Subcontracts for Commercial Products and Commercial Services	JAN 2022

52.246-16	Responsibility For Supplies	APR 1984
52.246-25	Limitation Of Liability--Services	FEB 1997
52.253-1	Computer Generated Forms	JAN 1991
252.201-7000	Contracting Officer's Representative	DEC 1991
252.203-7000	Requirements Relating to Compensation of Former DoD Officials	SEP 2011
252.203-7001	Prohibition On Persons Convicted of Fraud or Other Defense-Contract-Related Felonies	DEC 2008
252.203-7002	Requirement to Inform Employees of Whistleblower Rights	SEP 2013
252.203-7003	Agency Office of the Inspector General	AUG 2019
252.204-7003	Control Of Government Personnel Work Product	APR 1992
252.204-7015	Notice of Authorized Disclosure of Information for Litigation Support	MAY 2016
252.205-7000	Provision Of Information To Cooperative Agreement Holders	DEC 1991
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
252.223-7006	Prohibition On Storage, Treatment, and Disposal of Toxic or Hazardous Materials	SEP 2014
252.223-7008	Prohibition of Hexavalent Chromium	JUN 2013
252.225-7012	Preference For Certain Domestic Commodities	APR 2022
252.225-7048	Export-Controlled Items	JUN 2013
252.226-7001	Utilization of Indian Organizations and Indian-Owned Economic Enterprises, and Native Hawaiian Small Business Concerns	APR 2019
252.232-7003	Electronic Submission of Payment Requests and Receiving Reports	DEC 2018
252.232-7010	Levies on Contract Payments	DEC 2006
252.232-7017	Accelerating Payments to Small Business Subcontractors--Prohibition on Fees and Consideration	APR 2020
252.237-7010	Prohibition on Interrogation of Detainees by Contractor Personnel	JUN 2013
252.243-7002	Requests for Equitable Adjustment	DEC 2012
252.244-7000	Subcontracts for Commercial Items	JAN 2021
252.246-7003	Notification of Potential Safety Issues	JUN 2013
252.246-7004	Safety of Facilities, Infrastructure, and Equipment for Military Operations	OCT 2010
252.247-7023	Transportation of Supplies by Sea	FEB 2019

#### CLAUSES INCORPORATED BY FULL TEXT

##### 52.216-18 ORDERING. (AUG 2020)

- (a) Any supplies and services to be furnished under this contract shall be ordered by issuance of delivery orders or task orders by the individuals or activities designated in the Schedule. Such orders may be issued from **date of award** through **to the end of the ordering period to include exercised options**.
- (b) All delivery orders or task orders are subject to the terms and conditions of this contract. In the event of conflict between a delivery order or task order and this contract, the contract shall control.
- (c) A delivery order or task order is considered "issued" when--

- (1) If sent by mail (includes transmittal by U.S. mail or private delivery service), the Government deposits the order in the mail;
- (2) If sent by fax, the Government transmits the order to the Contractor's fax number; or
- (3) If sent electronically, the Government either--
  - (i) Posts a copy of the delivery order or task order to a Government document access system, and notice is sent to the Contractor; or
  - (ii) Distributes the delivery order or task order via email to the Contractor's email address.
- (d) Orders may be issued by methods other than those enumerated in this clause only if authorized in the contract.

(End of clause)

#### 52.216-19 ORDER LIMITATIONS (OCT 1995)

- (a) Minimum order. When the Government requires supplies or services covered by this contract in an amount of less than **\$400.00** (insert dollar figure or quantity), the Government is not obligated to purchase, nor is the Contractor obligated to furnish, those supplies or services under the contract.
- (b) Maximum order. The Contractor is not obligated to honor -
  - (1) Any order for a single item in excess of **\$2,000,000.00** (insert dollar figure or quantity);
  - (2) Any order for a combination of items in excess of **2,000,000.00** (insert dollar figure or quantity); or
  - (3) A series of orders from the same ordering office within **30** days that together call for quantities exceeding the limitation in paragraph (b) (1) or (2) of this section.
- (c) If this is a requirements contract (i.e., includes the Requirements clause at subsection 52.216-21 of the Federal Acquisition Regulation (FAR)), the Government is not required to order a part of any one requirement from the Contractor if that requirement exceeds the maximum-order limitations in paragraph (b) of this section.
- (d) Notwithstanding paragraphs (b) and (c) of this section, the Contractor shall honor any order exceeding the maximum order limitations in paragraph (b), unless that order (or orders) is returned to the ordering office within five **(5)** days after issuance, with written notice stating the Contractor's intent not to ship the item (or items) called for and the reasons. Upon receiving this notice, the Government may acquire the supplies or services from another source.

(End of clause)

#### 52.216-21 REQUIREMENTS (OCT 1995)

- (a) This is a requirements contract for the supplies or services specified, and effective for the period stated, in the Schedule. The quantities of supplies or services specified in the Schedule are estimates only and are not purchased



by this contract. Except as this contract may otherwise provide, if the Government's requirements do not result in orders in the quantities described as "estimated" or "maximum" in the Schedule, that fact shall not constitute the basis for an equitable price adjustment.

(b) Delivery or performance shall be made only as authorized by orders issued in accordance with the Ordering clause. Subject to any limitations in the Order Limitations clause or elsewhere in this contract, the Contractor shall furnish to the Government all supplies or services specified in the Schedule and called for by orders issued in accordance with the Ordering clause. The Government may issue orders requiring delivery to multiple destinations or performance at multiple locations.

(c) Except as this contract otherwise provides, the Government shall order from the Contractor all the supplies or services specified in the Schedule that are required to be purchased by the Government activity or activities specified in the Schedule.

(d) The Government is not required to purchase from the Contractor requirements in excess of any limit on total orders under this contract.

(e) If the Government urgently requires delivery of any quantity of an item before the earliest date that delivery may be specified under this contract, and if the Contractor will not accept an order providing for the accelerated delivery, the Government may acquire the urgently required goods or services from another source.

(f) Any order issued during the effective period of this contract and not completed within that period shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor's and Government's rights and obligations with respect to that order to the same extent as if the order were completed during the contract's effective period; provided, that the Contractor shall not be required to make any deliveries under this contract after **12 months after the end of the ordering period.**

(End of clause)

#### 52.217-8 OPTION TO EXTEND SERVICES (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within 10 days.

(End of clause)

#### 52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT (MAR 2000)

(a) The Government may extend the term of this contract by written notice to the Contractor within 10 days; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 30 days before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 66 months.

(End of clause)

## 52.219-28 POST-AWARD SMALL BUSINESS PROGRAM REREPRESENTATION (SEP 2021)

## (a) Definitions. As used in this clause--

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

## Small business concern--

(1) Means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR part 121 and the size standard in paragraph (d) of this clause. Such a concern is "not dominant in its field of operation" when it does not exercise a controlling or major influence on a national basis in a kind of business activity in which a number of business concerns are primarily engaged. In determining whether dominance exists, consideration shall be given to all appropriate factors, including volume of business, number of employees, financial resources, competitive status or position, ownership or control of materials, processes, patents, license agreements, facilities, sales territory, and nature of business activity.

(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.

(b) If the Contractor represented that it was any of the small business concerns identified in 19.000(a)(3) prior to award of this contract, the Contractor shall rerepresent its size and socioeconomic status according to paragraph (f) of this clause or, if applicable, paragraph (h) of this clause, upon occurrence of any of the following:

(1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.

(2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.

## (3) For long-term contracts--

(i) Within 60 to 120 days prior to the end of the fifth year of the contract; and

(ii) Within 60 to 120 days prior to the date specified in the contract for exercising any option thereafter.

(c) If the Contractor represented that it was any of the small business concerns identified in 19.000(a)(3) prior to award of this contract, the Contractor shall rerepresent its size and socioeconomic status according to paragraph (f) of this clause or, if applicable, paragraph (h) of this clause, when the Contracting Officer explicitly requires it for an order issued under a multiple-award contract.

(d) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code(s) assigned to this contract. The small business size standard corresponding to this NAICS code(s) can be found at <https://www.sba.gov/document/support--table-size-standards>.

(e) The small business size standard for a Contractor providing an end item that it does not manufacture, process, or produce itself, for a contract other than a construction or service contract, is 500 employees if the acquisition--

(1) Was set aside for small business and has a value above the simplified acquisition threshold;

(2) Used the HUBZone price evaluation preference regardless of dollar value, unless the Contractor waived the price evaluation preference; or

(3) Was 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.

(f) Except as provided in paragraph (h) of this clause, the Contractor shall make the representation(s) required by paragraph (b) and (c) of this clause by validating or updating all its representations in the Representations and Certifications section of the System for Award Management (SAM) and its other data in SAM, as necessary, to ensure that they reflect the Contractor's current status. The Contractor shall notify the contracting office in writing within the timeframes specified in paragraph (b) of this clause, or with its offer for an order (see paragraph (c) of this clause), that the data have been validated or updated, and provide the date of the validation or update.

(g) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (f) or (h) of this clause.

(h) If the Contractor does not have representations and certifications in SAM, or does not have a representation in SAM for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

(1) The Contractor represents that it [ ] is, [ ] is not a small business concern under NAICS Code assigned to contract number .

(2) [Complete only if the Contractor represented itself as a small business concern in paragraph (h)(1) of this clause.] The Contractor represents that it [ ] is, [ ] is not, a small disadvantaged business concern as defined in 13 CFR 124.1002.

(3) [Complete only if the Contractor represented itself as a small business concern in paragraph (h)(1) of this clause.] The Contractor represents that it [ ] is, [ ] is not a women-owned small business concern.

(4) Women-owned small business (WOSB) concern eligible under the WOSB Program. [Complete only if the Contractor represented itself as a women-owned small business concern in paragraph (h)(3) of this clause.] The Contractor represents that--

(i) It [ ] is, [ ] is not a WOSB concern eligible under the WOSB Program, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [ ] is, [ ] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (h)(4)(i) of this clause is accurate for each WOSB concern eligible under the WOSB Program participating in the joint venture.

[The Contractor shall enter the name or names of the WOSB concern eligible under the WOSB Program and other small businesses that are participating in the joint venture: .] Each WOSB concern eligible under the WOSB Program participating in the joint venture shall submit a separate signed copy of the WOSB representation.

(5) Economically disadvantaged women-owned small business (EDWOSB) concern. [Complete only if the Contractor represented itself as a women-owned small business concern eligible under the WOSB Program in (h)(4) of this clause.] The Contractor represents that--

(i) It [ ] is, [ ] is not an EDWOSB concern eligible under the WOSB Program, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [ ] is, [ ] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (h)(5)(i) of this clause is accurate for each EDWOSB concern participating in the joint venture. [The Contractor shall enter the name or names of the EDWOSB concern and other small businesses that are participating in the joint venture: .] Each EDWOSB concern participating in the joint venture shall submit a separate signed copy of the EDWOSB representation.

(6) [Complete only if the Contractor represented itself as a small business concern in paragraph (h)(1) of this clause.] The Contractor represents that it [ ] is, [ ] is not a veteran-owned small business concern.

(7) [Complete only if the Contractor represented itself as a veteran-owned small business concern in paragraph (h)(6) of this clause.] The Contractor represents that it [ ] is, [ ] is not a service-disabled veteran-owned small business concern.

(8) [Complete only if the Contractor represented itself as a small business concern in paragraph (h)(1) of this clause.] The Contractor represents that--

(i) It [ ] is, [ ] is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material changes in ownership and control, principal office, or HUBZone employee percentage have occurred since it was certified in accordance with 13 CFR part 126; and

(ii) It [ ] is, [ ] is not a HUBZone joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (h)(8)(i) of this clause is accurate for each HUBZone small business concern participating in the HUBZone joint venture. [The Contractor shall enter the names of each of the HUBZone small business concerns participating in the HUBZone joint venture: .] Each HUBZone small business concern participating in the HUBZone joint venture shall submit a separate signed copy of the HUBZone representation.

**[Contractor to sign and date and insert authorized signer's name and title.]**

(End of clause)

#### 52.222-42 STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES (MAY 2014)

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

THIS STATEMENT IS FOR INFORMATION ONLY: IT IS NOT A WAGE DETERMINATION  
Employee Class Monetary Wage-Fringe Benefits

(End of clause)

#### 52.228-14 IRREVOCABLE LETTER OF CREDIT (NOV 2014)

(a) "Irrevocable letter of credit" (ILC), as used in this clause, means a written commitment by a federally insured financial institution to pay all or part of a stated amount of money, until the expiration date of the letter, upon presentation by the Government (the beneficiary) of a written demand therefor. Neither the financial institution nor the offeror/Contractor can revoke or condition the letter of credit.

(b) If the offeror intends to use an ILC in lieu of a bid bond, or to secure other types of bonds such as performance and payment bonds, the letter of credit and letter of confirmation formats in paragraphs (e) and (f) of this clause shall be used.

(c) The letter of credit shall be irrevocable, shall require presentation of no document other than a written demand and the ILC (including confirming letter, if any), shall be issued/confirmed by an acceptable federally insured financial institution as provided in paragraph (d) of this clause, and--

(1) If used as a bid guarantee, the ILC shall expire no earlier than 60 days after the close of the bid acceptance period;

(2) If used as an alternative to corporate or individual sureties as security for a performance or payment bond, the offeror/Contractor may submit an ILC with an initial expiration date estimated to cover the entire period for which financial security is required or may submit an ILC with an initial expiration date that is a minimum period of one year from the date of issuance. The ILC shall provide that, unless the issuer provides the beneficiary written notice of non-renewal at least 60 days in advance of the current expiration date, the ILC is automatically extended without amendment for one year from the expiration date, or any future expiration date, until the period of required coverage is completed and the Contracting Officer provides the financial institution with a written statement waiving the right to payment. The period of required coverage shall be:

(i) For contracts subject to 40 U.S.C. chapter 31, subchapter III, Bonds, the later of--

(A) One year following the expected date of final payment;

(B) For performance bonds only, until completion of any warranty period; or

(C) For payment bonds only, until resolution of all claims filed against the payment bond during the one-year period following final payment.

(ii) For contracts not subject to the Miller Act, the later of--

(A) 90 days following final payment; or

(B) For performance bonds only, until completion of any warranty period.

(d)(1) Only federally insured financial institutions rated investment grade by a commercial rating service shall issue or confirm the ILC.

(2) Unless the financial institution issuing the ILC had letter of credit business of at least \$25 million in the past year, ILCs over \$5 million must be confirmed by another acceptable financial institution that had letter of credit business of at least \$25 million in the past year.

(3) The Offeror/Contractor shall provide the Contracting Officer a credit rating that indicates the financial institutions have the required credit rating as of the date of issuance of the ILC.

(4) The current rating for a financial institution is available through any of the following rating services registered with the U.S. Securities and Exchange Commission (SEC) as a Nationally Recognized Statistical Rating Organization (NRSRO). NRSRO's can be located at the Web site <http://www.sec.gov/answers/nrsro.htm> maintained by the SEC.

(e) The following format shall be used by the issuing financial institution to create an ILC:

\_\_\_\_\_  
[Issuing Financial Institution's Letterhead or Name and Address]

Issue Date \_\_\_\_

IRREVOCABLE LETTER OF CREDIT NO. \_\_\_\_

Account party's name \_\_\_\_

Account party's address \_\_\_\_

For Solicitation No. \_\_\_\_ (for reference only)

TO: [ \_\_\_\_ U.S. Government agency]

[ \_\_\_\_ U.S. Government agency's address]

1. We hereby establish this irrevocable and transferable Letter of Credit in your favor for one or more drawings up to United States \$ \_\_\_\_ . This Letter of Credit is payable at [issuing financial institution's and, if any, confirming financial institution's] office at [ \_\_\_\_ issuing financial institution's address and, if any, confirming financial institution's address] and expires with our close of business on \_\_\_\_ , or any automatically extended expiration date.

2. We hereby undertake to honor your or the transferee's sight draft(s) drawn on the issuing or, if any, the confirming financial institution, for all or any part of this credit if presented with this Letter of Credit and confirmation, if any, at the office specified in paragraph 1 of this Letter of Credit on or before the expiration date or any automatically extended expiration date.

3. [This paragraph is omitted if used as a bid guarantee, and subsequent paragraphs are renumbered.] It is a condition of this Letter of Credit that it is deemed to be automatically extended without amendment for one year from the expiration date hereof, or any future expiration date, unless at least 60 days prior to any expiration date, we notify you or the transferee by registered mail, or other receipted means of delivery, that we elect not to consider this Letter of Credit renewed for any such additional period. At the time we notify you, we also agree to notify the account party (and confirming financial institution, if any) by the same means of delivery.

4. This Letter of Credit is transferable. Transfers and assignments of proceeds are to be effected without charge to either the beneficiary or the transferee/assignee of proceeds. Such transfer or assignment shall be only at the written direction of the Government (the beneficiary) in a form satisfactory to the issuing financial institution and the confirming financial institution, if any.

5. This Letter of Credit is subject to the Uniform Customs and Practice (UCP) for Documentary Credits, International Chamber of Commerce Publication No. \_\_\_\_ -- (Insert version in effect at the time of ILC issuance, e.g., "Publication 600, 2006 edition") and to the extent not inconsistent therewith, to the laws of \_\_\_\_ --[State of confirming financial institution, if any, otherwise State of issuing financial institution].

6. If this credit expires during an interruption of business of this financial institution as described in Article 17 of the UCP, the financial institution specifically agrees to effect payment if this credit is drawn against within 30 days after the resumption of our business.

Sincerely,

\_\_\_\_\_

[ \_\_\_\_ Issuing financial institution]

(f) The following format shall be used by the financial institution to confirm an ILC:

\_\_\_\_ [Confirming Financial Institution's Letterhead or Name and Address]

(Date) \_\_\_\_

Our Letter of Credit Advice Number \_\_\_\_

Beneficiary: \_\_\_\_ [U.S. Government agency]

Issuing Financial Institution: \_\_\_\_

Issuing Financial Institution's LC No.: \_\_\_\_

Gentlemen:

1. We hereby confirm the above indicated Letter of Credit, the original of which is attached, issued by \_\_\_\_ [name of issuing financial institution] for drawings of up to United States dollars \_\_\_\_ /U.S. \$ \_\_\_\_ and expiring with our close of business on \_\_\_\_ [the expiration date], or any automatically extended expiration date.

2. Draft(s) drawn under the Letter of Credit and this Confirmation are payable at our office located at \_\_\_\_ .

3. We hereby undertake to honor sight draft(s) drawn under and presented with the Letter of Credit and this Confirmation at our offices as specified herein.

4. [This paragraph is omitted if used as a bid guarantee, and subsequent paragraphs are renumbered.] It is a condition of this confirmation that it be deemed automatically extended without amendment for one year from the expiration date hereof, or any automatically extended expiration date, unless:

(a) At least 60 days prior to any such expiration date, we shall notify the Contracting Officer, or the transferee and the issuing financial institution, by registered mail or other receipted means of delivery, that we elect not to consider this confirmation extended for any such additional period; or

(b) The issuing financial institution shall have exercised its right to notify you or the transferee, the account party, and ourselves, of its election not to extend the expiration date of the Letter of Credit.

5. This confirmation is subject to the Uniform Customs and Practice (UCP) for Documentary Credits, International Chamber of Commerce Publication No. \_\_\_\_ -- (Insert version in effect at the time of ILC issuance, e.g., ``Publication 600, 2006 edition") and to the extent not inconsistent therewith, to the laws of \_\_\_\_--[State of confirming financial institution].

6. If this confirmation expires during an interruption of business of this financial institution as described in Article 17 of the UCP, we specifically agree to effect payment if this credit is drawn against within 30 days after the resumption of our business.

Sincerely,

\_\_\_\_\_

[Confirming financial institution]

(g) The following format shall be used by the Contracting Officer for a sight draft to draw on the Letter of Credit:

SIGHT DRAFT

\_\_\_\_\_  
[City, State]

(Date) \_\_\_\_

[Name and address of financial institution]

Pay to the order of \_\_\_\_ [Beneficiary Agency] \_\_\_\_ the sum of United States \_\_\_\_ This draft is drawn under Irrevocable Letter of Credit No. \_\_\_\_

\_\_\_\_ [Beneficiary Agency]

By: \_\_\_\_

(End of clause)

#### 52.232-19 AVAILABILITY OF FUNDS FOR THE NEXT FISCAL YEAR (APR 1984)

Funds are not presently available for performance under this contract beyond 31 August 2023. The Government's obligation for performance of this contract beyond that date is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of the Government for any payment may arise for performance under this contract beyond 31 August 2023, until funds are made available to the Contracting Officer for performance and until the Contractor receives notice of availability, to be confirmed in writing by the Contracting Officer.

(End of clause)

#### 52.246-11 HIGHER-LEVEL CONTRACT QUALITY REQUIREMENT (DEC 2014)

(a) The Contractor shall comply with the higher-level quality standard(s) listed below.

[ \_\_\_\_ Contracting Officer insert the title, number, date, and tailoring (if any) of the higher-level quality standards.]

(b) The Contractor shall include applicable requirements of the higher-level quality standard(s) listed in paragraph (a) of this clause and the requirement to flow down such standards, as applicable, to lower-tier subcontracts, in--

(1) Any subcontract for critical and complex items (see 46.203(b) and (c)); or

(2) When the technical requirements of a subcontract require--

(i) Control of such things as design, work operations, in-process control, testing, and inspection; or



(ii) Attention to such factors as organization, planning, work instructions, documentation control, and advanced metrology.

(End of clause)

#### 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):

[www.acquisition.gov](http://www.acquisition.gov)

(End of clause)

#### 252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (DEC 2018)

(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.

---

(Contracting Officer: Insert applicable invoice and receiving report document type(s) for fixed price line items that require shipment of a deliverable.)

(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.

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(Contracting Officer: Insert either “Invoice 2in1” or the applicable invoice and receiving report document type(s) for fixed price line items for services.)

(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 item financing, submit a commercial item 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	_____
Issue By DoDAAC	_____
Admin DoDAAC**	_____
Inspect By DoDAAC	_____
Ship To Code	_____
Ship From Code	_____

Mark For Code	_____
Service Approver (DoDAAC)	_____
Service Acceptor (DoDAAC)	_____
Accept at Other DoDAAC	_____
LPO DoDAAC	_____
DCAA Auditor DoDAAC	_____
Other DoDAAC(s)	_____

(\*Contracting Officer: Insert applicable DoDAAC information. If multiple ship to/acceptance locations apply, insert “See Schedule” or “Not applicable.”)

(\*\*Contracting Officer: If the contract provides for progress payments or performance-based payments, insert the DoDAAC for the contract administration office assigned the functions under FAR 42.302(a)(13).)

(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.

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(Contracting Officer: Insert applicable information or “Not applicable.”)

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

(End of clause)

## Section K - Representations, Certifications and Other Statements of Offerors

## CLAUSES INCORPORATED BY REFERENCE

52.203-11	Certification And Disclosure Regarding Payments To Influence Certain Federal Transactions	SEP 2007
52.204-17	Ownership or Control of Offeror	AUG 2020
52.204-20	Predecessor of Offeror	AUG 2020
52.204-24	Representation Regarding Certain Telecommunications and Video Surveillance Services or Equipment	NOV 2021
52.204-26	Covered Telecommunications Equipment or Services-- Representation.	OCT 2020
52.204-26	Covered Telecommunications Equipment or Services-- Representation.	OCT 2020
52.209-7	Information Regarding Responsibility Matters	OCT 2018
52.223-22	Public Disclosure of Greenhouse Gas Emissions and Reduction Goals -- Representation.	DEC 2016
52.225-25	Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-- Representation and Certifications.	JUN 2020

## Section L - Instructions, Conditions and Notices to Bidders

INSTRUCTIONS TO OFFERORS**INSTRUCTIONS TO OFFERORS**

- The Government contemplates award of a Firm-Fixed Price (FFP) contract for Fire Protection Systems Inspection, Testing, and Maintenance (ITM) with Repair for Aberdeen Proving Ground, Maryland.
- The requirement will be procured in accordance with FAR Part 52.216-21 Requirements. This requirement is a Total 100% Small Business Set Aside.
- Offerors shall reference; Proposal Submission Requirements, Evaluation for Award, the Solicitation for evaluation criteria and information to be submitted. The SF 1449 and all Amendments shall be signed.
- Offerors shall be registered in the System for Award Management (SAM) database and shall complete Representations and Certifications. Registration in the SAM database can be accomplished at the website <https://www.sam.gov>.
- As noted on the SF 1449, this is for North American Industry Classification System (NAICS) code 561621, which has a size standard of \$20.5m.
- This is a single award firm fixed price (FFP) contract. Task Orders (TOs) will issued on a FFP basis, as necessary. The ordering period of performance is one (1) base year and four (4) one-year options, with a six-months option.
- No funds will be obligated on the base contract; all funds will be obligated on individual Task Orders.
- Evaluation of options shall not obligate the Government to exercise the option(s).
- This is a non-personal service requirement.

**Proposal Submission Requirements**

- Offeror's shall submit a digital copy of their proposal via email to Ms. Margaret V. Keelty at [margaret.v.keelty.civ@army.mil](mailto:margaret.v.keelty.civ@army.mil) and cc Ms. Barbara D. Cousins at [barbara.d.cousins.civ@army.mil](mailto:barbara.d.cousins.civ@army.mil). No hard copies or facsimile submissions shall be accepted.
- The entire proposal shall not exceed **100** digital pages NOT including the completed solicitation (SF-1449) or signed Amendments.
- Technical Exhibits, Quality Assurance Surveillance Plan (QASP), Non-Fillable Clauses and Performance Work Statement (PWS) will NOT be evaluated. Additional pages over the maximum allowed will be removed or not reviewed and will not be evaluated by the Government.
- All Contract Line Item Numbers (CLINs) shall be priced unless marked as Not Separately Priced (NSP).
- The Offeror shall submit one (1) cover page for pricing that shall include a breakdown of the Base Year, each Option Years, and the six-month Option period. The total sum shall be separately stated on the cover page. Equitable Price increases, for each option period, shall be included in the proposal. The Government shall not be responsible for totaling Offerors proposals.

**Submittals with Proposals:**

**Cover page:** Price summary totals

**Section B, SF1449:** Priced CLINs (Base and all Option Years) - Complete prices on Section B of the RFP SF1449 including all options. **Submit PRICED BID SHEET Repair Line Items and Common Spare Parts/Batteries for CLINs 0007,0008, 1007-1008, 2007-2008, 3007-3008, 4007-4009 and 5007-5008.**

**Factor 1: Certifications** - Contractor must submit certification(s) for at least one employee for each of all the following key personnel:

- a. **Project Manager** – BA from an accredited College/university and 5-years experience
- b. **Quality Control Manager (QCM)** – Craftsperson Journeyman Level III certification in Inspection Testing of Water Based Sytems, 5-years experience, or NICET Level III Certification in Fire Alarm Systems.

- c. **Technicians** – NICET Level III, knowledgeable and trained on the requirements of the applicable NFPA codes and UFC 3-600-01.
- d. **Craftsperson Journeyman** -- Level III certification in Inspection Testing of Water Based Systems, 5-year's experience in inspection and testing of water based systems IAW NICET 1-8.1.1.3
- e. **Contractor** – Evidence of being a Notifier distributor and license to perform fire detection and suppression ITM&R in the state of Maryland.

\*Reference PWS paragraphs 2.4.3 and 2.17 for specific requirements of experience.

**Factor 2: Resume Project Manager** - Resume must demonstrate experience within the Electrical and Mechanical Systems Engineering Technology field, number of years in project management, and provide references with telephone contact information.

**Factor 3: Narrative/Schedule** - Provide a brief narrative and schedule outlining how the contractor intends to accomplish all identified tier one (1) inspections in a calendar year.

**Factor 4: Past Performance** - Submit a past performance history reflecting the contract reference number, description of work performed, dates of work performed, and company/ client contact information for each contract. Past performance must be recent (within the past 5 years) and relevant (related to fire alarms and sprinklers services). In the case of an offeror without a record of relevant past performance or for whom information on past performance is not available, the offeror will be rated as 'neutral.' Neutral constitutes an acceptable rating. Each offeror's past performance will be reviewed on an acceptable or unacceptable basis. The Government may use data provided by the offeror in its proposal and data obtained from other sources, including data in Government files (i.e. CPARs). Data used in conducting past performance assessments shall not extend past five years prior to the issue date of the RFP, but may include performance data as a prime.

#### CLAUSES INCORPORATED BY REFERENCE

52.204-7	System for Award Management	OCT 2018
52.204-16	Commercial and Government Entity Code Reporting	AUG 2020
52.212-1	Instructions to Offerors--Commercial Products and Commercial Services	NOV 2021
52.233-2	Service Of Protest	SEP 2006
252.204-7004	Antiterrorism Awareness Training for Contractors.	FEB 2019
252.204-7021	Contractor Compliance with the Cybersecurity Maturity Model Certification Level Requirement	NOV 2020
252.215-7008	Only One Offer	JUL 2019

#### CLAUSES INCORPORATED BY FULL TEXT

##### 52.212-3 OFFEROR REPRESENTATIONS AND CERTIFICATIONS--COMMERCIAL PRODUCTS AND COMMERCIAL SERVICES (MAY 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. 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 the field of operation in which it is bidding on Government contracts, 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 the stock of which 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 its stock is owned by one or more women; or

(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.

(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 it ( \_\_\_\_ ) is, ( \_\_\_\_ ) is not a small business concern.

(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 it ( \_\_\_\_ ) is, ( \_\_\_\_ ) is not a service-disabled veteran-owned small business concern.

(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 concern eligible under the WOSB Program. [Complete only if the offeror represented itself as a women-owned small business concern in paragraph (c)(5) of this provision.] The offeror represents that--

(i) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a WOSB concern eligible under the WOSB Program, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (c)(6)(i) of this provision is accurate for each WOSB concern eligible under the WOSB Program participating in the joint venture. [The offeror shall enter the name or names of the WOSB concern eligible under the WOSB Program and other small businesses that are participating in the joint venture: \_\_\_\_ .] Each WOSB concern eligible under the WOSB Program participating in the joint venture shall submit a separate signed copy of the WOSB representation.

(7) Economically disadvantaged women-owned small business (EDWOSB) concern. [Complete only if the offeror represented itself as a WOSB concern eligible under the WOSB Program in (c)(6) of this provision.] The offeror represents that--

(i) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not an EDWOSB concern, has provided all the required documents to the WOSB Repository, and no change in circumstances or adverse decisions have been issued that affects its eligibility; and

(ii) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a joint venture that complies with the requirements of 13 CFR part 127, and the representation in paragraph (c)(7)(i) of this provision is accurate for each EDWOSB concern participating in the joint venture. [The offeror shall enter the name or names of the EDWOSB concern and other small businesses that are participating in the joint venture: \_\_\_\_ -.] Each EDWOSB concern participating in the joint venture shall submit a separate signed copy of the EDWOSB representation.

**Note:** Complete paragraphs (c)(8) and (c)(9) only if this solicitation is expected to exceed the simplified acquisition threshold.

(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, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material changes in ownership and control, principal office, or HUBZone employee percentage have occurred since it was certified in accordance with 13 CFR Part 126; and

(ii) It [ \_\_\_\_ ] is, [ \_\_\_\_ ] is not a HUBZone joint venture that complies with the requirements of 13 CFR Part 126, and the representation in paragraph (c)(10)(i) of this provision is accurate for each HUBZone small business concern participating in the HUBZone joint venture. [The offeror shall enter the names of each of the HUBZone small business concerns participating in the HUBZone joint venture: \_\_\_\_ .] Each HUBZone small business concern participating in the HUBZone joint venture shall submit a separate signed copy of the HUBZone representation.

(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 either to the Equal Opportunity clause of this solicitation, the 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.

(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.

(iii) The terms "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
____	____
____	____
____	____

[List as necessary]

(3) 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.

(B) The terms "Bahrainian, Moroccan, Omani, Panamanian, or Peruvian end product," "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.

Other Foreign End Products:

Line item No.	Country of origin
—	—
—	—
—	—

[List as necessary]

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

(2) *Buy American Act-Free Trade Agreements-Israeli Trade Act Certificate, Alternate I (Jan 2004)*. If Alternate I 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 Canadian end products as defined in the clause of this solicitation entitled "Buy American -Free Trade Agreements-Israeli Trade Act":

Canadian End Products:

Line item No.
_____
_____
_____

[List as necessary]

(3) *Buy American-Free Trade Agreements-Israeli Trade Act Certificate, Alternate II (Jan 2004)*. 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 Canadian end products or Israeli end products as defined in the clause of this solicitation entitled "Buy American-Free Trade Agreements-Israeli Trade Act":

Canadian or Israeli End Products:

Line item No.	Country of origin
_____	_____
_____	_____
_____	_____

[List as necessary]

(4) *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]

(5) 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; and

(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.

(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. By submission of its offer, 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 section 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 and 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).

(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 Web site 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 Web site a target to reduce absolute emissions or emissions intensity by a specific quantity or percentage.

(iii) A publicly accessible Web site includes the Offeror's own Web site 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 Web site(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)

(a) Inspection/Acceptance. The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. If repair/replacement or reperformance will not correct the defects or is not possible, the Government may seek an equitable price reduction or adequate consideration for acceptance of nonconforming supplies or services. The Government must exercise its post-acceptance rights-

(1) Within a reasonable time after the defect was discovered or should have been discovered; and

(2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.

(b) Assignment. The Contractor or its assignee may assign its rights to receive payment due as a result of performance of this contract to a bank, trust company, or other financing institution, including any Federal lending agency in accordance with the Assignment of Claims Act (31 U.S.C. 3727). However, when a third party makes payment (e.g., use of the Governmentwide commercial purchase card), the Contractor may not assign its rights to receive payment under this contract.

(c) Changes. Changes in the terms and conditions of this contract may be made only by written agreement of the parties.

(d) Disputes. This contract is subject to 41 U.S.C. chapter 71, Contract Disputes. Failure of the parties to this contract to reach agreement on any request for equitable adjustment, claim, appeal or action arising under or relating to this contract shall be a dispute to be resolved in accordance with the clause at Federal Acquisition Regulation (FAR) 52.233-1, Disputes, which is incorporated herein by reference. The Contractor shall proceed diligently with performance of this contract, pending final resolution of any dispute arising under the contract.

(e) Definitions. The clause at FAR 52.202-1, Definitions, is incorporated herein by reference.

(f) Excusable delays. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence such as, acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(g) Invoice.

(1) The Contractor shall submit an original invoice and three copies (or electronic invoice, if authorized) to the address designated in the contract to receive invoices. An invoice must include--

(i) Name and address of the Contractor;

(ii) Invoice date and number;

(iii) Contract number, line item number and, if applicable, the order number;

(iv) Description, quantity, unit of measure, unit price and extended price of the items delivered;

(v) Shipping number and date of shipment, including the bill of lading number and weight of shipment if shipped on Government bill of lading;

(vi) Terms of any discount for prompt payment offered;

(vii) Name and address of official to whom payment is to be sent;

(viii) Name, title, and phone number of person to notify in event of defective invoice; and

(ix) Taxpayer Identification Number (TIN). The Contractor shall include its TIN on the invoice only if required elsewhere in this contract.

(x) Electronic funds transfer (EFT) banking information.

(A) The Contractor shall include EFT banking information on the invoice only if required elsewhere in this contract.

(B) If EFT banking information is not required to be on the invoice, in order for the invoice to be a proper invoice, the Contractor shall have submitted correct EFT banking information in accordance with the applicable solicitation provision, contract clause (e.g., 52.232-33, Payment by Electronic Funds Transfer—System for Award Management, or 52.232-34, Payment by Electronic Funds Transfer--Other Than System for Award Management), or applicable agency procedures.

(C) EFT banking information is not required if the Government waived the requirement to pay by EFT.

(2) Invoices will be handled in accordance with the Prompt Payment Act (31 U.S.C. 3903) and Office of Management and Budget (OMB) prompt payment regulations at 5 CFR part 1315.

(h) Patent indemnity. The Contractor shall indemnify the Government and its officers, employees and agents against liability, including costs, for actual or alleged direct or contributory infringement of, or inducement to infringe, any United States or foreign patent, trademark or copyright, arising out of the performance of this contract, provided the Contractor is reasonably notified of such claims and proceedings.

(i) Payment.--

(1) Items accepted. Payment shall be made for items accepted by the Government that have been delivered to the delivery destinations set forth in this contract.

(2) Prompt payment. The Government will make payment in accordance with the Prompt Payment Act (31 U.S.C. 3903) and prompt payment regulations at 5 CFR part 1315.

(3) Electronic Funds Transfer (EFT). If the Government makes payment by EFT, see 52.212-5(b) for the appropriate EFT clause.

(4) Discount. In connection with any discount offered for early payment, time shall be computed from the date of the invoice. For the purpose of computing the discount earned, payment shall be considered to have been made on the date which appears on the payment check or the specified payment date if an electronic funds transfer payment is made.

(5) Overpayments. If the Contractor becomes aware of a duplicate contract financing or invoice payment or that the Government has otherwise overpaid on a contract financing or invoice payment, the Contractor shall--

(i) Remit the overpayment amount to the payment office cited in the contract along with a description of the overpayment including the--

(A) Circumstances of the overpayment (e.g., duplicate payment, erroneous payment, liquidation errors, date(s) of overpayment);

(B) Affected contract number and delivery order number, if applicable;

(C) Affected line item or subline item, if applicable; and



(D) Contractor point of contact.

(ii) Provide a copy of the remittance and supporting documentation to the Contracting Officer.

(6) Interest.

(i) All amounts that become payable by the Contractor to the Government under this contract shall bear simple interest from the date due until paid unless paid within 30 days of becoming due. The interest rate shall be the interest rate established by the Secretary of the Treasury as provided in 41 U.S.C. 7109, which is applicable to the period in which the amount becomes due, as provided in (i)(6)(v) of this clause, and then at the rate applicable for each six-month period as fixed by the Secretary until the amount is paid.

(ii) The Government may issue a demand for payment to the Contractor upon finding a debt is due under the contract.

(iii) Final decisions. The Contracting Officer will issue a final decision as required by 33.211 if--

(A) The Contracting Officer and the Contractor are unable to reach agreement on the existence or amount of a debt within 30 days;

(B) The Contractor fails to liquidate a debt previously demanded by the Contracting Officer within the timeline specified in the demand for payment unless the amounts were not repaid because the Contractor has requested an installment payment agreement; or

(C) The Contractor requests a deferment of collection on a debt previously demanded by the Contracting Officer (see 32.607-2).

(iv) If a demand for payment was previously issued for the debt, the demand for payment included in the final decision shall identify the same due date as the original demand for payment.

(v) Amounts shall be due at the earliest of the following dates:

(A) The date fixed under this contract.

(B) The date of the first written demand for payment, including any demand for payment resulting from a default termination.

(vi) The interest charge shall be computed for the actual number of calendar days involved beginning on the due date and ending on--

(A) The date on which the designated office receives payment from the Contractor;

(B) The date of issuance of a Government check to the Contractor from which an amount otherwise payable has been withheld as a credit against the contract debt; or

(C) The date on which an amount withheld and applied to the contract debt would otherwise have become payable to the Contractor.

(vii) The interest charge made under this clause may be reduced under the procedures prescribed in FAR 32.608-2 in effect on the date of this contract.

(j) Risk of loss. Unless the contract specifically provides otherwise, risk of loss or damage to the supplies provided under this contract shall remain with the Contractor until, and shall pass to the Government upon:

(1) Delivery of the supplies to a carrier, if transportation is f.o.b. origin; or

(2) Delivery of the supplies to the Government at the destination specified in the contract, if transportation is f.o.b. destination.

(k) Taxes. The contract price includes all applicable Federal, State, and local taxes and duties.

(l) Termination for the Government's convenience. The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges the Contractor can demonstrate to the satisfaction of the Government using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred which reasonably could have been avoided.

(m) Termination for cause. The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(n) Title. Unless specified elsewhere in this contract, title to items furnished under this contract shall pass to the Government upon acceptance, regardless of when or where the Government takes physical possession.

(o) Warranty. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(p) Limitation of liability. Except as otherwise provided by an express warranty, the Contractor will not be liable to the Government for consequential damages resulting from any defect or deficiencies in accepted items.

(q) Other compliances. The Contractor shall comply with all applicable Federal, State and local laws, executive orders, rules and regulations applicable to its performance under this contract.

(r) Compliance with laws unique to Government contracts. The Contractor agrees to comply with 31 U.S.C. 1352 relating to limitations on the use of appropriated funds to influence certain Federal contracts; 18 U.S.C. 431 relating to officials not to benefit; 40 U.S.C. chapter 37, Contract Work Hours and Safety Standards; 41 U.S.C. chapter 87, Kickbacks; 41 U.S.C. 4712 and 10 U.S.C. 2409 relating to whistleblower protections; 49 U.S.C. 40118, Fly American; and 41 U.S.C. chapter 21 relating to procurement integrity.

(s) Order of precedence. Any inconsistencies in this solicitation or contract shall be resolved by giving precedence in the following order:

(1) The schedule of supplies/services.

(2) The Assignments, Disputes, Payments, Invoice, Other Compliances, Compliance with Laws Unique to Government Contracts, and Unauthorized Obligations paragraphs of this clause.

(3) The clause at 52.212-5.

(4) Addenda to this solicitation or contract, including any license agreements for computer software.

(5) Solicitation provisions if this is a solicitation.

(6) Other paragraphs of this clause.

(7) The Standard Form 1449.

(8) Other documents, exhibits, and attachments.

(9) The specification.

(t) Reserved.

(u) Unauthorized Obligations.

(1) Except as stated in paragraph (u)(2) of this clause, when any supply or service acquired under this contract is subject to any End User License Agreement (EULA), Terms of Service (TOS), or similar legal instrument or agreement, that includes any clause requiring the Government to indemnify the Contractor or any person or entity for damages, costs, fees, or any other loss or liability that would create an Anti-Deficiency Act violation (31 U.S.C. 1341), the following shall govern:

(i) Any such clause is unenforceable against the Government.

(ii) Neither the Government nor any Government authorized end user shall be deemed to have agreed to such clause by virtue of it appearing in the EULA, TOS, or similar legal instrument or agreement. If the EULA, TOS, or similar legal instrument or agreement is invoked through an "I agree" click box or other comparable mechanism (e.g., "click-wrap" or "browse-wrap" agreements), execution does not bind the Government or any Government authorized end user to such clause.

(iii) Any such clause is deemed to be stricken from the EULA, TOS, or similar legal instrument or agreement.

(2) Paragraph (u)(1) of this clause does not apply to indemnification by the Government that is expressly authorized by statute and specifically authorized under applicable agency regulations and procedures.

(v) Incorporation by reference. The Contractor's representations and certifications, including those completed electronically via the System for Award Management (SAM), are incorporated by reference into the contract.

(End of clause)

#### 52.212-5 CONTRACT TERMS AND CONDITIONS REQUIRED TO IMPLEMENT STATUTES OR EXECUTIVE ORDERS--COMMERCIAL PRODUCTS AND COMMERCIAL SERVICES (MAY 2022)

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

(6) 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.]

XX (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. 2402).

XX (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.)

XX (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).

XX (8) 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).

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

\_\_\_\_ (10) [Reserved]

\_\_\_\_ (11) 52.219-3, Notice of HUBZone Set-Aside or Sole-Source Award (SEP 2021) (15 U.S.C. 657a).

\_\_\_\_ (12) 52.219-4, Notice of Price Evaluation Preference for HUBZone Small Business Concerns (SEP 2021) (if the offeror elects to waive the preference, it shall so indicate in its offer) (15 U.S.C. 657a).

\_\_\_\_ (13) [Reserved]

XX (14)(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.

\_\_\_\_ (15)(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.
- XX (16) 52.219-8, Utilization of Small Business Concerns (OCT 2018) (15 U.S.C. 637(d)(2) and (3)).
- \_\_\_\_ (17)(i) 52.219-9, Small Business Subcontracting Plan (NOV 2021) (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.
- \_\_\_\_ (18) (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.
- \_\_\_\_ (19) 52.219-14, Limitations on Subcontracting (SEP 2021) (15 U.S.C. 657s).
- \_\_\_\_ (20) 52.219-16, Liquidated Damages—Subcontracting Plan (SEP 2021) (15 U.S.C. 637(d)(4)(F)(i)).
- \_\_\_\_ (21) 52.219-27, Notice of Service-Disabled Veteran-Owned Small Business Set-Aside (SEP 2021) (15 U.S.C. 657f).
- \_\_\_\_ (22) (i) 52.219-28, Post-Award Small Business Program Rerepresentation (SEP 2021) (15 U.S.C. 632(a)(2)).
- \_\_\_\_ (ii) Alternate I (MAR 2020) of 52.219-28.
- \_\_\_\_ (23) 52.219-29, Notice of Set-Aside for, or Sole-Source Award to, Economically Disadvantaged Women-Owned Small Business Concerns (SEP 2021) (15 U.S.C. 637(m)).
- \_\_\_\_ (24) 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 (SEP 2021) (15 U.S.C. 637(m)).
- \_\_\_\_ (25) 52.219-32, Orders Issued Directly Under Small Business Reserves (MAR 2020) (15 U.S.C. 644(r)).
- \_\_\_\_ (26) 52.219-33, Nonmanufacturer Rule (SEP 2021) (15 U.S.C. 657s).
- XX (27) 52.222-3, Convict Labor (JUN 2003) (E.O. 11755).
- XX (28) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (JAN 2022) (E.O. 13126).
- XX (29) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
- XX (30)(i) 52.222-26, Equal Opportunity (SEPT 2016) (E.O. 11246).
- \_\_\_\_ (ii) Alternate I (FEB 1999) of 52.222-26.
- XX (31)(i) 52.222-35, Equal Opportunity for Veterans (JUN 2020) (38 U.S.C. 4212).
- \_\_\_\_ (ii) Alternate I (JUL 2014) of 52.222-35.
- XX (32)(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.

XX (33) 52.222-37, Employment Reports on Veterans (JUN 2020) (38 U.S.C. 4212).

XX (34) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496).

XX (35)(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).

\_\_\_\_ (36) 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.)

\_\_\_\_ (37)(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.)

\_\_\_\_ (38) 52.223-11, Ozone-Depleting Substances and High Global Warming Potential Hydrofluorocarbons (JUN 2016) (E.O. 13693).

\_\_\_\_ (39) 52.223-12, Maintenance, Service, Repair, or Disposal of Refrigeration Equipment and Air Conditioners (JUN 2016) (E.O. 13693).

\_\_\_\_ (40) (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.

\_\_\_\_ (41)(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.

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

\_\_\_\_ (43)(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.

XX (44) 52.223-18, Encouraging Contractor Policies to Ban Text Messaging While Driving (JUN 2020) (E.O. 13513).

\_\_\_\_ (45) 52.223-20, Aerosols (JUN 2016) (E.O. 13693).

\_\_\_\_ (46) 52.223-21, Foams (JUN 2016) (E.O. 13693).

XX (47)(i) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a).

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

XX (48) 52.225-1, Buy American--Supplies (NOV 2021) (41 U.S.C. chapter 83).

\_\_\_\_ (49) (i) 52.225-3, Buy American--Free Trade Agreements--Israeli Trade Act (NOV 2021) (41 U.S.C. chapter 83, 19 U.S.C. 3301 note, 19 U.S.C. 2112 note, 19 U.S.C. 3805 note, 19 U.S.C. 4001 note, Pub. L. 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 (JAN 2021) of 52.225-3.

\_\_\_\_ (iii) Alternate II (JAN 2021) of 52.225-3.

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

\_\_\_\_ (50) 52.225-5, Trade Agreements (OCT 2019) 19 U.S.C. 2501, et seq., 19 U.S.C. 3301 note).

XX (51) 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).

\_\_\_\_ (52) 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. 2302 Note).

\_\_\_\_ (53) 52.226-4, Notice of Disaster or Emergency Area Set-Aside (NOV 2007) (42 U.S.C. 5150

\_\_\_\_ (54) 52.226-5, Restrictions on Subcontracting Outside Disaster or Emergency Area (NOV 2007) (42 U.S.C. 5150).

\_\_\_\_ (55) 52.229-12, Tax on Certain Foreign Procurements (FEB 2021).

\_\_\_\_ (56) 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. 2307(f)).

\_\_\_\_ (57) 52.232-30, Installment Payments for Commercial Products and Commercial Services (NOV 2021) (41 U.S.C. 4505, 10 U.S.C. 2307(f)).

XX (58) 52.232-33, Payment by Electronic Funds Transfer—System for Award Management (OCT 2018) (31 U.S.C. 3332).

\_\_\_\_ (59) 52.232-34, Payment by Electronic Funds Transfer—Other than System for Award Management (JUL 2013) (31 U.S.C. 3332).

\_\_\_\_ (60) 52.232-36, Payment by Third Party (MAY 2014) (31 U.S.C. 3332).

\_\_\_\_ (61) 52.239-1, Privacy or Security Safeguards (AUG 1996) (5 U.S.C. 552a).

\_\_\_\_ (62) 52.242-5, Payments to Small Business Subcontractors (JAN 2017)(15 U.S.C. 637(d)(13)).

\_\_\_\_ (63)(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.]

XX (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).

XX (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).

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

XX (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) 52.219-8, Utilization of Small Business Concerns (Oct 2018) (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.
- (vi) 52.222-21, Prohibition of Segregated Facilities (Apr 2015).
- (vii) 52.222-26, Equal Opportunity (Sep 2016) (E.O. 11246).
- (viii) 52.222-35, Equal Opportunity for Veterans (JUN 2020) (38 U.S.C. 4212).
- (ix) 52.222-36, Equal Opportunity for Workers with Disabilities (JUN 2020) (29 U.S.C. 793).
- (x) 52.222-37, Employment Reports on Veterans (JUN 2020) (38 U.S.C. 4212).
- (xi) 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.
- (xii) 52.222-41, Service Contract Labor Standards (Aug 2018), (41 U.S.C. chapter 67).
- (xiii) \_\_\_\_ (A) 52.222-50, Combating Trafficking in Persons (NOV 2021) (22 U.S.C. chapter 78 and E.O. 13627).  
\_\_\_\_ (B) Alternate I (March 2, 2015) of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).
- (xiv) 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.)
- (xv) 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)
- (xvi) 52.222-54, Employment Eligibility Verification (MAY 2022) (E. O. 12989).
- (xvii) 52.222-55, Minimum Wages for Contractor Workers Under Executive Order 14026 (JAN 2022) (E.O. 13658).
- (xviii) [52.222-62](#), Paid Sick Leave Under Executive Order 13706 (JAN 2022) (E.O. 13706).
- (xix) (A) [52.224-3](#), Privacy Training (Jan 2017) ([5 U.S.C. 552a](#)).  
(B) Alternate I (Jan 2017) of [52.224-3](#).
- (xx) 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. 2302 Note).

(xxi) 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.

(xxii) 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)

## Section M - Evaluation Factors for Award

## CLAUSES INCORPORATED BY FULL TEXT

## 52.217-5 EVALUATION OF OPTIONS (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

(End of provision)

EVALUATION FACTORS FOR AWARD**EVALUATION FOR AWARD**

The award will be made to the single responsible offeror, whose proposal has been determined to be technically acceptable and who has the lowest price. To receive consideration for award, an "Acceptable" rating must be achieved for the following items.

1. Price is the lowest offer compare with others and is considerable reasonable. Government will evaluate the price proposal for award purposes by adding the total of all line item prices, including all options. A price is considered reasonable when, in its nature or amount, it does not exceed what an ordinarily prudent person in the conduct of competitive business would incur and is not so low as to reflect the offeror's failure to understand the complexity and risk of the contractual requirements. A balanced offer is one that contains prices properly distributed over all line items throughout the life of the contract including the base and option period(s). 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).

2. Technical section: This section is divided into the following subsections and evaluated on an "Acceptable" or "Unacceptable" basis.

**Factor 1: Technical Standards for Key Personnel**

Technical Factor 1 Subfactors:

**a. NICET Level III Technician**

**b. Estimator**

**c. Craftsperson Journeyman Level III Certified**

**Factor 2 : Project Manager Resume**

**Factor 3 : Narrative/Schedule**

**TABLE 1**

RATING	RATING DESCRIPTION
Acceptable	Proposal clearly meets the minimum requirements of
Unacceptable	Proposal does not clearly meet the minimum requirements of the solicitation.

3. Proposal completeness: The Government will evaluate offeror's entire proposal to determine if the proposal is complete and meet the solicitation requirements.

**A. BASIS FOR AWARD**

The award will be made to the single responsible offeror, whose proposal has been determined to be technically acceptable and who has the lowest price. To receive consideration for an award, an "Acceptable" rating must be

achieved for these two evaluation factors: Technical and Past Performance. Price will be evaluated in accordance with FAR 15.404-1. The factors are as follows: (1) Technical, (2) Past Performance, and (3) Price.

To receive consideration for further evaluation, a rating of “Acceptable” must be achieved for the Technical factor (to include all sub-factors) and the Past Performance factor. Price will be the determining factor for proposals rated as acceptable for Technical and Past Performance.

To be considered for award, offerors must be registered in the System for Award Management (SAM) under NAICS 561621 (Size Standard \$20.5).

The Government reserves the right to award without discussions; therefore, offerors are cautioned to ensure that their proposals contain all necessary information and are complete. The Government reserves the right to conduct discussions if the Contracting Officer deems necessary.

## **B. FACTORS AND SUB-FACTORS TO BE EVALUATED**

The following evaluation factors and subfactors will be used to evaluate each proposal. Award will be made to the lowest priced proposal that is deemed technically acceptable.

A detailed explanation of the criteria for evaluation is set forth in the “evaluation approach”, paragraph C of this section. During evaluation of each proposal, the Government will assign each factor/sub-factor an Acceptable/Unacceptable rating. Each subfactor will be evaluated to determine if the proposed approach associated with each factor meets or does not meet the minimum performance or capability requirements. To receive an overall “Acceptable” factor rating, all sub-factors must receive an “Acceptable” rating.

**Factor 1: Technical Standards for Key Personnel** - National Institute for Certification in Engineering Technologies (NICET) Fire Alarm Systems and Uniform Facilities Code (UFC 3-600-01 and UFC 3-600-02). This contract falls under the National Institute for Certification in Engineering Technologies (NICET) Fire Alarm Systems and UFC 3-600-01 and UFC 3-600-02.

The Technical Factor 1 is further divided into the following subfactors. Contractor must submit certification(s) for at least one each of all the following key personnel:

- a. NICET Level III Technician** – Certified in Fire Alarm Systems or Inspection and Testing Fire Alarm Systems with 5 years of experience and hold a position as a supervisor.
- b. Estimator** – NICET Level III or IV Certified in Fire Alarm Systems with minimum 5 years of experience.
- c. Craftsperson Journeyman Level III Certified** - in Inspection Testing of Water Based Systems with 5 years’ experience and previously held a position as a supervisor. (IAW NICET 1-8.1.1.3 Craftsperson’s with other recognized journeyman or craftsman-level qualifications for fire protection systems, such as National Institute for Certification in Engineering Technologies NICET Level III certification in Fire Alarm Systems, Inspection and Testing of Water-Based Systems, or Special Hazard Suppression Systems, or formalized labor organization-based journeyman training, or similar programs.) or Crafts persons with other recognized Level I Journeyman Certified in Inspection and Testing of Water Based Systems with 3 years of experience as a supervised apprentice.
- d. Contractor** – Certified Notifier distributor

**Factor 2: Project Manager Resume** – Project Manager experienced in Electrical and Mechanical Systems Engineering Technology– minimum 7 years of experience of project management.

**Factor 3: Narrative/Schedule** - Offerors shall be able to complete all tier one (1) identified (monthly through annual) buildings inspections in a calendar year. Submit a narrative and schedule (monthly and annual) demonstrating how offeror intends to complete all tier one (1) identified (monthly through annual) building inspections in a calendar year.

**Factor 4: Past Performance.** Submit a past performance history reflecting the contract reference number and company owner contact information for each contract. Past performance must be recent and relevant. All contract submissions shall have an overall satisfactory or higher when researched. In the case of an offeror without a record of relevant past performance or for whom information on past performance is not available, the offeror will be rated as 'neutral.' Neutral constitutes an acceptable rating. Each offeror's past performance will be reviewed on an acceptable or unacceptable basis.

**Price Proposal:**

The resulting award will be a Requirement type of indefinite delivery contract with task orders issued on a Firm Fixed Price (FFP) basis. Price reasonableness will be utilized in the evaluation.

**C. EVALUATION APPROACH**

All proposals shall be subject to evaluation by the Source Selection Team (SST). The SST will establish the factors to be evaluated on an "Acceptable" or "Unacceptable" basis.

1. The overarching evaluation approach for all factors and sub-factors is an Adequacy of Response. The proposal will be evaluated to determine whether the offeror's methods and approach have adequately and completely considered, defined, and satisfied the requirements specified in the RFP. The proposal will be evaluated to determine the extent to which each requirement has been addressed in the proposal in accordance with the proposal submission section of the RFP.

2. Technical: Certifications must indicate key personnel certifications are current and meet minimum levels of experience indicated below.

**Factor 1:**

**a - Technician** NICET Level III

**b - Estimator** NICET Level III or IV Certified in Fire Alarm Systems

**c - Craftsperson** Journeyman Level III Certified in (Inspection Testing of Water Based Systems) or Crafts persons with other recognized Level I Journeyman Certified in (Inspection and Testing of Water Based Systems). Craftsperson's, Journeyman and Supervisors shall submit applicable current certification documents reflecting the years of experience.

**d - Contractor** must present certification as a Certified Notifier Distributor

**Factor 2: Resume Project Manager** - Resume must demonstrate experience within the Electrical and Mechanical Systems Engineering Technology field, indicate number of years in project management, and be verifiable with references and telephone contact information.

**Factor 3: Narrative/Schedule** - Narrative and schedule must demonstrate how the contractor intends to accomplish all identified tier one (1) inspections in a calendar year.

**3. Past Performance**

The Government will evaluate the offeror's record of past and current performance to ascertain the probability of successfully performing the required efforts of the PWS. The Past Performance factor considers each offeror's demonstrated recent and relevant record of performance in providing services that meet the contract requirements. Recent past performance is considered to be efforts awarded during the past five (5) years, from the issue date of this RFP. Relevant past performance is considered to be how relevant a recent effort or efforts accomplished by the offeror were to the solicited effort.

The Government will evaluate past performance by utilizing the Contractor's Performance Assessment Reporting System (CPARS). In addition, the Government may consider a wide array of information from a variety of sources, but is not compelled to rely on all the information available.

Government offeror in its proposal and data obtained from other sources, including data in Government files or data obtained through interviews with personnel familiar with the contractor and their current and past performance. Data used in conducting past performance assessments shall not extend past five (5) years prior to the issue date of the RFP, but may include performance data as a prime.

The Government will evaluate the offeror's proposal against the above requirements to determine whether the proposal is acceptable or unacceptable for the Past Performance factor, using the ratings and descriptions outlined in Table 2 below.

**TABLE 2 – PAST PERFORMANCE RATINGS**

RATING	RATING DESCRIPTION
Acceptable	Based on the offeror's performance record, the Government has a reasonable expectation that the offeror will successfully perform the required effort, or the offeror's performance record is unknown.
Unacceptable	Based on the offeror's performance record, the Government has no reasonable expectation that the offeror will be able to successfully perform the required effort.

#### 4. Price Proposal

The Government will evaluate the price proposal for award purposes by adding the total of all CLIN prices, including all options by using price analysis techniques describe in FAR 15.404-1(b).

For evaluation purposes, the Government will evaluate price by reviewing the total of all CLIN prices (from Section B of the RFP SF1449), including all options. For the CLINs where the Government has provided "plug numbers"/estimates (CLINs 0008,0009, 1008-1009, 2008-2009, 3008-3009, 4008-4009) prices will be evaluated the same for all offerors. The percentage (%) of mark up and the percentage (%) of overhead and profit will be evaluated the same for all offerors to determine the overall cost when applied to the "plug numbers."

A price is considered reasonable when, in its nature or amount, it does not exceed what an ordinarily prudent person in the conduct of competitive business would incur and is not so low as to reflect the offeror's failure to understand the complexity and risk of the contractual requirements. A balanced offer is one that contains prices properly distributed over all line items throughout the life of the contract including any base and option period(s).

**Selection and Award without Discussions:** It is the intent of the Government to make award based upon initial offers, without further discussions or additional information. Therefore, proposals should be submitted initially on the most favorable terms from a price and technical standpoint. Offerors should not assume that they will be afforded the opportunity to clarify, discuss, or revise proposals. If award is not made on initial offers, discussions will be conducted as described below.

**Options:** 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).

#### **Submittals with Proposals:**

**Cover page:** Price summary totals

**Section B, SF1449:** Priced CLINs (Base and all Option Years) CLINs - Complete prices on Section B of the RFP SF1449 including all options. Submit **PRICED BID SHEET Repair Line Items and Common Spare Parts/Batteries** for CLINs 0008,0009, 1008-1009, 2008-2009, 3008-3009, 4008-4009s.

**Factor 1: Certifications** - Contractor must submit certification(s) for at least one each of all the following key personnel:

**a - Technician** NICET Level III

**b - Estimator** NICET Level III or IV Certified in Fire Alarm Systems

**c - Craftsperson** Journeyman Level III Certification in (Inspection Testing of Water Based Systems) or Crafts persons with other recognized Level I Journeyman Certified in (Inspection and Testing of Water Based Systems). Craftsperson's, Journeyman and Supervisors shall submit applicable current certification documents reflecting the years of experience.

**Factor 2: Resume Project Manager** - Resume must demonstrate experience within the Electrical and Mechanical Systems Engineering Technology field, number of years in project management, and provide references with telephone contact information.

**Factor 3: Narrative/Schedule** - Provide a brief narrative and schedule outlining how the contractor intends to accomplish all identified tier one (1) inspections in a calendar year?

**Factor 4: Past Performance Questionnaires** shall be electronically submitted to this office by the Offeror's references.

All submittals will be numbered, titled and submitted in the order as defined above.

## Technical Exhibit 5 – Forms

### (T/E 5 A) NFPA 72 System Record Of Inspection And Testing

72-54

NATIONAL FIRE ALARM AND SIGNALING CODE

TE 5 A

SYSTEM RECORD OF INSPECTION AND TESTING		
<i>This form is to be completed by the system inspection and testing contractor at the time of a system test. It shall be permitted to modify this form as needed to provide a more complete and/or clear record. Insert N/A in all unused lines. Attach additional sheets, data, or calculations as necessary to provide a complete record.</i>		
Inspection/Test Start Date/Time: _____		Inspection/Test Completion Date/Time: _____
Supplemental Form(s) Attached: _____ (yes/no)		
<b>1. PROPERTY INFORMATION</b>		
Name of property: _____		
Address: _____		
Description of property: _____		
Name of property representative: _____		
Address: _____		
Phone: _____	Fax: _____	E-mail: _____
<b>2. TESTING AND MONITORING INFORMATION</b>		
Testing organization: _____		
Address: _____		
Phone: _____	Fax: _____	E-mail: _____
Monitoring organization: _____		
Address: _____		
Phone: _____	Fax: _____	E-mail: _____
Account number: _____	Phone line 1: _____	Phone line 2: _____
Means of transmission: _____		
Entity to which alarms are retransmitted: _____		
Phone: _____		
<b>3. DOCUMENTATION</b>		
Onsite location of the required record documents and site-specific software: _____		
<b>4. DESCRIPTION OF SYSTEM OR SERVICE</b>		
<b>4.1 Control Unit</b>		
Manufacturer: _____		Model number: _____
<b>4.2 Software Firmware</b>		
Firmware revision number: _____		
<b>4.3 System Power</b>		
<b>4.3.1 Primary (Main) Power</b>		
Nominal voltage: _____	Amps: _____	Location: _____
Overcurrent protection type: _____	Amps: _____	Disconnecting means location: _____
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NFPA 72 (p. 1 of 4)		

Δ FIGURE 7.8.2(g) System Record of Inspection and Testing. (SIG-TMS)

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Shaded text = Revisions. Δ = Text deletions and figure/table revisions. • = Section deletions. N = New material.

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**SYSTEM RECORD OF INSPECTION AND TESTING (continued)****4. DESCRIPTION OF SYSTEM OR SERVICE (continued)****4.3.2 Secondary Power**

Type: \_\_\_\_\_ Location: \_\_\_\_\_

Battery type (if applicable): \_\_\_\_\_

Calculated capacity of batteries to drive the system: \_\_\_\_\_

In standby mode (hours): \_\_\_\_\_ In alarm mode (minutes): \_\_\_\_\_

**5. NOTIFICATIONS MADE PRIOR TO TESTING**

Monitoring organization Contact: \_\_\_\_\_ Time: \_\_\_\_\_

Building management Contact: \_\_\_\_\_ Time: \_\_\_\_\_

Building occupants Contact: \_\_\_\_\_ Time: \_\_\_\_\_

Authority having jurisdiction Contact: \_\_\_\_\_ Time: \_\_\_\_\_

Other, if required Contact: \_\_\_\_\_ Time: \_\_\_\_\_

**6. TESTING RESULTS****6.1 Control Unit and Related Equipment**

Description	Visual Inspection	Functional Test	Comments
Control unit	<input type="checkbox"/>	<input type="checkbox"/>	
Lamps/LEDs/LCDs	<input type="checkbox"/>	<input type="checkbox"/>	
Fuses	<input type="checkbox"/>	<input type="checkbox"/>	
Trouble signals	<input type="checkbox"/>	<input type="checkbox"/>	
Disconnect switches	<input type="checkbox"/>	<input type="checkbox"/>	
Ground-fault monitoring	<input type="checkbox"/>	<input type="checkbox"/>	
Supervision	<input type="checkbox"/>	<input type="checkbox"/>	
Local annunciator	<input type="checkbox"/>	<input type="checkbox"/>	
Remote annunciators	<input type="checkbox"/>	<input type="checkbox"/>	
Remote power panels	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

**6.2 Secondary Power**

Description	Visual Inspection	Functional Test	Comments
Battery condition	<input type="checkbox"/>	<input type="checkbox"/>	
Load voltage	<input type="checkbox"/>	<input type="checkbox"/>	
Discharge test	<input type="checkbox"/>	<input type="checkbox"/>	
Charger test	<input type="checkbox"/>	<input type="checkbox"/>	
Remote panel batteries	<input type="checkbox"/>	<input type="checkbox"/>	

**Δ** FIGURE 7.8.2(g) *Continued*

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SYSTEM RECORD OF INSPECTION AND TESTING (continued)

6. TESTING RESULTS (continued)

6.3 Alarm and Supervisory Alarm Initiating Device

Attach supplementary device test sheets for all initiating devices.

6.4 Notification Appliances

Attach supplementary appliance test sheets for all notification appliances.

6.5 Interface Equipment

Attach supplementary interface component test sheets for all interface components.

Circuit Interface / Signaling Line Circuit Interface / Fire Alarm Control Interface

6.6 Supervising Station Monitoring

Description	Yes	No	Time	Comments
Alarm signal	<input type="checkbox"/>	<input type="checkbox"/>		
Alarm restoration	<input type="checkbox"/>	<input type="checkbox"/>		
Trouble signal	<input type="checkbox"/>	<input type="checkbox"/>		
Trouble restoration	<input type="checkbox"/>	<input type="checkbox"/>		
Supervisory signal	<input type="checkbox"/>	<input type="checkbox"/>		
Supervisory restoration	<input type="checkbox"/>	<input type="checkbox"/>		

6.7 Public Emergency Alarm Reporting System

Description	Yes	No	Time	Comments
Alarm signal	<input type="checkbox"/>	<input type="checkbox"/>		
Alarm restoration	<input type="checkbox"/>	<input type="checkbox"/>		
Trouble signal	<input type="checkbox"/>	<input type="checkbox"/>		
Trouble restoration	<input type="checkbox"/>	<input type="checkbox"/>		
Supervisory signal	<input type="checkbox"/>	<input type="checkbox"/>		
Supervisory restoration	<input type="checkbox"/>	<input type="checkbox"/>		

Δ FIGURE 7.8.2(g) Continued

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**NOTIFICATION APPLIANCE  
SUPPLEMENTARY RECORD OF INSPECTION AND TESTING**

*This form is a supplement to the System Record of Inspection and Testing.  
It includes a notification appliance test record.*

*This form is to be completed by the system inspection and testing contractor at the time of the inspection and/or test.  
It shall be permitted to modify this form as needed to provide a more complete and/or clear record.  
Insert N/A in all unused lines.*

Inspection/Test Start Date/Time: \_\_\_\_\_ Inspection/Test Completion Date/Time: \_\_\_\_\_  
Number of Supplemental Pages Attached: \_\_\_\_\_

## 1. PROPERTY INFORMATION

Name of property: \_\_\_\_\_  
Address: \_\_\_\_\_

## 2. NOTIFICATION APPLIANCE TEST RESULTS

[illegible]

**Δ FIGURE 7.8.2(h) Notification Appliance Supplementary Record of Inspection and Testing. (SIG-TMS)**

## 2. NOTIFICATION APPLIANCE TEST RESULTS (continued)

**See main System Record of Inspection and Testing for additional information, certifications, and approvals.**

NFPA 72 (p. 2 of 2)

2019 Edition

**INITIATING DEVICE**  
**SUPPLEMENTARY RECORD OF INSPECTION AND TESTING**

*This form is a supplement to the System Record of Inspection and Testing.  
It includes an initiating device test record.*

*This form is to be completed by the system inspection and testing contractor at the time of the inspection and/or test.  
It shall be permitted to modify this form as needed to provide a more complete and/or clear record.  
Insert N/A in all unused lines.*

Inspection/Test Start Date/Time: \_\_\_\_\_ Inspection/Test Completion Date/Time: \_\_\_\_\_  
Number of Supplemental Pages Attached: \_\_\_\_\_

## 1. PROPERTY INFORMATION

Name of property: \_\_\_\_\_  
Address: \_\_\_\_\_

## 2. INITIATING DEVICE TEST RESULTS

[illegible]

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NFPA 72 (p. 1 of 2)

**Δ FIGURE 7.8.2(i) Initiating Device Supplementary Record of Inspection and Testing. (SIG-TMS)**



## MASS NOTIFICATION SYSTEM SUPPLEMENTARY RECORD OF INSPECTION AND TESTING

*This form is a supplement to the System Record of Inspection and Testing.  
It includes a mass notification system test record.*

*This form is to be completed by the system inspection and testing contractor at the time of the inspection and/or test.  
It shall be permitted to modify this form as needed to provide a more complete and/or clear record.  
Insert N/A in all unused lines.*

Inspection/Test Start Date/Time: \_\_\_\_\_ Inspection/Test Completion Date/Time: \_\_\_\_\_  
Number of Supplemental Pages Attached: \_\_\_\_\_

### 1. PROPERTY INFORMATION

Name of property: \_\_\_\_\_  
Address: \_\_\_\_\_

### 2. MASS NOTIFICATION SYSTEM

#### 2.1 System Type

☐ In-building MNS—combination  
☐ In-building MNS—stand alone    ☐ Wide-area MNS    ☐ Distributed recipient MNS  
☐ Other (specify): \_\_\_\_\_

#### 2.2 System Features

☐ Combination fire alarm/MNS    ☐ MNS ACU only    ☐ Wide-area MNS to regional national alerting interface  
☐ Local operating console (LOC)    ☐ Direct recipient MNS (DRMNS)    ☐ Wide-area MNS to DRMNS interface  
☐ Wide-area MNS to high-power loudspeaker array (HPLA) interface    ☐ In-building MNS to wide-area MNS interface  
☐ Other (specify): \_\_\_\_\_

### 3. IN-BUILDING MASS NOTIFICATION SYSTEM

#### 3.1 Primary Power

Input voltage of MNS panel: \_\_\_\_\_ MNS panel amps: \_\_\_\_\_

#### 3.2 Engine-Driven Generator    ☐ This system does not have a generator.

Location of generator: \_\_\_\_\_  
Location of fuel storage: \_\_\_\_\_ Type of fuel: \_\_\_\_\_

#### 3.3 Energy Storage Systems    ☐ This system does not have an ESS.

Equipment powered by an ESS system: \_\_\_\_\_  
Location of ESS system: \_\_\_\_\_  
Calculated capacity of ESS batteries to drive the system components connected to it:  
In standby mode (hours): \_\_\_\_\_ In alarm mode (minutes): \_\_\_\_\_

#### 3.4 Batteries

Location: \_\_\_\_\_ Type: \_\_\_\_\_ Nominal voltage: \_\_\_\_\_ Amp/hour rating: \_\_\_\_\_  
Calculated capacity of batteries to drive the system:  
In standby mode (hours): \_\_\_\_\_ In alarm mode (minutes): \_\_\_\_\_  
☐ Batteries are marked with date of manufacture.

**FIGURE 7.8.2(j) Mass Notification System Supplementary Record of Inspection and Testing. (SIG-TMS)**



**MASS NOTIFICATION SYSTEM  
SUPPLEMENTARY RECORD OF INSPECTION AND TESTING (continued)**

**4. MASS NOTIFICATION EQUIPMENT TEST RESULTS**

Description	Visual Inspection	Functional Test	Comments
Functional test			
Reset/power down test			
Fuses			
Primary power supply			
ESS power test			
Trouble signals			
Disconnect switches			
Ground-fault monitoring			
CCU security mechanism			
Prerecorded message content			
Prerecorded message activation			
Software backup performed			
Test backup software			
Fire alarm to MNS interface			
MNS to fire alarm interface			
In-building MNS to wide-area MNS			
MNS to direct recipient MNS			
Sound pressure levels			
Occupied <input type="checkbox"/> Yes <input type="checkbox"/> No			
Ambient dBA: _____			
Alarm dBA: _____			
(attach supplementary notification appliance form(s) with locations, values, and weather conditions)			
System intelligibility			
Test method: _____ Score: _____			
CIS value: _____			
(attach supplementary notification appliance form(s) with locations, values, and weather conditions)			
Other (specify): _____			

See main System Record of Inspection and Testing for additional information, certifications, and approvals.

**Δ** FIGURE 7.8.2(j) *Continued*

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## EMERGENCY COMMUNICATIONS SYSTEMS SUPPLEMENTARY RECORD OF INSPECTION AND TESTING

*This form is a supplement to the System Record of Inspection and Testing.  
It includes systems and components specific to emergency communication systems.  
This form is to be completed by the system inspection and testing contractor at the time of the inspection and/or test.  
It shall be permitted to modify this form as needed to provide a more complete and/or clear record.  
Insert N/A in all unused lines.*

Inspection/Test Start Date/Time: \_\_\_\_\_ Inspection/Test Completion Date/Time: \_\_\_\_\_  
Number of Supplemental Pages Attached: \_\_\_\_\_

### 1. PROPERTY INFORMATION

Name of property: \_\_\_\_\_  
Address: \_\_\_\_\_

### 2. DESCRIPTION OF SYSTEM OR SERVICE

- ☐ Fire alarm with in-building fire emergency voice alarm communication system (EVAC)  
☐ Mass notification system  
☐ Combination system, with the following components:  
☐ Fire alarm   ☐ EVACS   ☐ MNS   ☐ Two-way, in-building, emergency communication system  
☐ Other (specify): \_\_\_\_\_  
 Additional description of system(s): \_\_\_\_\_  
 \_\_\_\_\_

#### 2.1 In-Building Fire Emergency Voice Alarm Communication System

Manufacturer: \_\_\_\_\_ Model number: \_\_\_\_\_  
 Number of single voice alarm channels: \_\_\_\_\_ Number of multiple voice alarm channels: \_\_\_\_\_  
 Number of loudspeakers: \_\_\_\_\_ Number of loudspeaker circuits: \_\_\_\_\_  
 Location of amplification and sound processing equipment: \_\_\_\_\_  
 \_\_\_\_\_

Location of paging microphone stations:

Location 1: \_\_\_\_\_  
 Location 2: \_\_\_\_\_  
 Location 3: \_\_\_\_\_

#### 2.2 Mass Notification System

##### 2.2.1 System Type:

- ☐ In-building MNS—combination  
☐ In-building MNS   ☐ Wide-area MNS   ☐ Distributed recipient MNS  
☐ Other (specify): \_\_\_\_\_

**Δ FIGURE 7.8.2(k) Emergency Communications Systems Supplementary Record of Inspection and Testing. (SIG-TMS)**

## EMERGENCY COMMUNICATIONS SYSTEMS SUPPLEMENTARY RECORD OF INSPECTION AND TESTING *(continued)*

### 2. DESCRIPTION OF SYSTEM OR SERVICE *(continued)*

#### 2.2.2 System Features:

- ☐ Combination fire alarm/MNS    ☐ MNS autonomous control unit    ☐ Wide-area MNS to regional national alerting interface  
☐ Local operating console (LOC)    ☐ Distributed-recipient MNS (DRMNS)    ☐ Wide-area MNS to DRMNS interface  
☐ Wide-area MNS to high-power loudspeaker array (HPLA) interface    ☐ In-building MNS to wide-area MNS interface  
☐ Other (specify): \_\_\_\_\_

#### 2.2.3 MNS Local Operating Consoles

Location 1: \_\_\_\_\_  
 Location 2: \_\_\_\_\_  
 Location 3: \_\_\_\_\_

#### 2.2.4 High-Power Loudspeaker Arrays

Number of HPLA loudspeaker initiation zones: \_\_\_\_\_  
 Location 1: \_\_\_\_\_  
 Location 2: \_\_\_\_\_  
 Location 3: \_\_\_\_\_

#### 2.2.5 Mass Notification Devices

Combination fire alarm/MNS visual devices: \_\_\_\_\_ MNS-only visual devices: \_\_\_\_\_  
 Textual signs: \_\_\_\_\_ Other (describe): \_\_\_\_\_  
 Supervision class: \_\_\_\_\_

#### 2.2.6 Special Hazard Notification

- ☐ This system does not have special suppression pre-discharge notification  
☐ MNS systems DO NOT override notification appliances required to provide special suppression pre-discharge notification

### 3. TWO-WAY EMERGENCY COMMUNICATION SYSTEMS

#### 3.1 Telephone System

Number of telephone jacks installed: \_\_\_\_\_ Number of warden stations installed: \_\_\_\_\_  
 Number of telephone handsets stored on site: \_\_\_\_\_  
 Type of telephone system installed: ☐ Electrically powered    ☐ Sound powered

#### 3.2 Area of Refuge (Area of Rescue Assistance) Emergency Communications Systems

Number of stations: \_\_\_\_\_ Location of central control point: \_\_\_\_\_  
 Days and hours when central control point is attended: \_\_\_\_\_  
 Location of alternate control point: \_\_\_\_\_  
 Days and hours when alternate control point is attended: \_\_\_\_\_

**▲** FIGURE 7.8.2(k) *Continued*

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### 3. TWO-WAY EMERGENCY COMMUNICATIONS SYSTEMS (continued)

Days and hours when alternate control point is attended: \_\_\_\_\_

**Describe:** \_\_\_\_\_

#### 4.1 Control Unit and Related Equipment

Description	Visual Inspection	Functional Test	Comments
Control unit	<input type="checkbox"/>	<input type="checkbox"/>	
Lamps/LEDs/LCDs	<input type="checkbox"/>	<input type="checkbox"/>	
Fuses	<input type="checkbox"/>	<input type="checkbox"/>	
Trouble signals	<input type="checkbox"/>	<input type="checkbox"/>	
Disconnect switches	<input type="checkbox"/>	<input type="checkbox"/>	
Ground fault monitoring	<input type="checkbox"/>	<input type="checkbox"/>	
Supervision	<input type="checkbox"/>	<input type="checkbox"/>	
Local annunciator	<input type="checkbox"/>	<input type="checkbox"/>	
Remote annunciators	<input type="checkbox"/>	<input type="checkbox"/>	
Remote power panels	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	

Description	Visual Inspection	Functional Test	Comments
Battery condition	<input type="checkbox"/>	<input type="checkbox"/>	
Load voltage	<input type="checkbox"/>	<input type="checkbox"/>	
Discharge test	<input type="checkbox"/>	<input type="checkbox"/>	
Charger test	<input type="checkbox"/>	<input type="checkbox"/>	
Remote panel batteries	<input type="checkbox"/>	<input type="checkbox"/>	

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**EMERGENCY COMMUNICATIONS SYSTEMS  
SUPPLEMENTARY RECORD OF INSPECTION AND TESTING (continued)**

**4. TESTING RESULTS (continued)**

**4.3 Emergency Communications Equipment**

Description	Visual Inspection	Functional Test	Comments
Control unit	<input type="checkbox"/>	<input type="checkbox"/>	
Lamps/LEDs/LCDs	<input type="checkbox"/>	<input type="checkbox"/>	
Fuses	<input type="checkbox"/>	<input type="checkbox"/>	
Secondary power supply	<input type="checkbox"/>	<input type="checkbox"/>	
Trouble signals	<input type="checkbox"/>	<input type="checkbox"/>	
Disconnect switches	<input type="checkbox"/>	<input type="checkbox"/>	
Ground fault monitoring	<input type="checkbox"/>	<input type="checkbox"/>	
Panel supervision	<input type="checkbox"/>	<input type="checkbox"/>	
System performance	<input type="checkbox"/>	<input type="checkbox"/>	
System audibility	<input type="checkbox"/>	<input type="checkbox"/>	
System intelligibility	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	

**4.4 Mass Notification Equipment**

Description	Visual Inspection	Functional Test	Comments
Functional test	<input type="checkbox"/>	<input type="checkbox"/>	
Reset/Power down test	<input type="checkbox"/>	<input type="checkbox"/>	
Fuses	<input type="checkbox"/>	<input type="checkbox"/>	
Primary power supply	<input type="checkbox"/>	<input type="checkbox"/>	
ESS power test	<input type="checkbox"/>	<input type="checkbox"/>	
Trouble signals	<input type="checkbox"/>	<input type="checkbox"/>	
Disconnect switches	<input type="checkbox"/>	<input type="checkbox"/>	
Ground fault monitoring	<input type="checkbox"/>	<input type="checkbox"/>	
CCU security mechanism	<input type="checkbox"/>	<input type="checkbox"/>	
Prerecorded message content	<input type="checkbox"/>	<input type="checkbox"/>	
Prerecorded message activation	<input type="checkbox"/>	<input type="checkbox"/>	
Software backup performed	<input type="checkbox"/>	<input type="checkbox"/>	
Test backup software	<input type="checkbox"/>	<input type="checkbox"/>	
Fire alarm to MNS Interface	<input type="checkbox"/>	<input type="checkbox"/>	
MNS to fire alarm interface	<input type="checkbox"/>	<input type="checkbox"/>	
In-building MNS to wide-area MNS	<input type="checkbox"/>	<input type="checkbox"/>	
MNS to direct recipient MNS	<input type="checkbox"/>	<input type="checkbox"/>	

**▲ FIGURE 7.8.2(k) Continued**

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**EMERGENCY COMMUNICATIONS SYSTEMS**  
**SUPPLEMENTARY RECORD OF INSPECTION AND TESTING** *(continued)*

#### 4. TESTING RESULTS (continued)

#### 4.4 Mass Notification Equipment (continued)

Description	Visual Inspection	Functional Test	Comments
Sound pressure levels (attach report with locations, values, and weather conditions)	<input type="checkbox"/>	<input type="checkbox"/>	
System intelligibility <input type="checkbox"/> CSI <input type="checkbox"/> STI (attach report with locations, values, and weather conditions)	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	

#### 4.5 Two-Way Communication Equipment

Description	Visual Inspection	Functional Test	Comments
Phone handsets	<input type="checkbox"/>	<input type="checkbox"/>	
Phone jacks	<input type="checkbox"/>	<input type="checkbox"/>	
Off-hook indicator	<input type="checkbox"/>	<input type="checkbox"/>	
Call-in signal	<input type="checkbox"/>	<input type="checkbox"/>	
System performance	<input type="checkbox"/>	<input type="checkbox"/>	
System audibility	<input type="checkbox"/>	<input type="checkbox"/>	
System intelligibility	<input type="checkbox"/>	<input type="checkbox"/>	
Other:	<input type="checkbox"/>	<input type="checkbox"/>	

**See main System Record of Inspection and Testing for additional information, certifications, and approvals.**

**Δ FIGURE 7.8.2(k)** *Continued*



## 2. INTERFACE COMPONENT TEST RESULTS (continued)

[illegible]

NFPA 72 (p. 2 of 2)

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## (T/E 5 B) NFPA 25 Centrifugal Fire Pump Annual Test Form

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ANNEX A

TE 5 B  
25-107

### Sample Centrifugal Fire Pump Annual Test Form

Information on this form covers the minimum requirements of NFPA 25, 2017 edition, for performing an annual test on centrifugal fire pumps with electric motor or diesel engine drivers. A separate form is required for each pump operating simultaneously. This form does not cover other periodic inspections, testing, and maintenance required by NFPA 25.



Owner: \_\_\_\_\_  
Owner's address: \_\_\_\_\_  
Pump location: \_\_\_\_\_  
Property address: \_\_\_\_\_  
Date of test: \_\_\_\_\_  
Maximum demand(s) of fire protection system(s) \_\_\_\_\_ gpm at \_\_\_\_\_ psi for \_\_\_\_\_ minutes at fire pump discharge  
System demand information supplied by: \_\_\_\_\_  
Pump type: Horizontal ☐ Vertical ☐ Inline ☐ Other (specify) \_\_\_\_\_  
Manufacturer: \_\_\_\_\_ Model or type: \_\_\_\_\_ Shop/serial number \_\_\_\_\_  
Pump rated for \_\_\_\_\_ gpm at \_\_\_\_\_ psi at \_\_\_\_\_ RPM, net discharge pressure \_\_\_\_\_ psi at 150% \_\_\_\_\_ psi at churn  
Pump suction size \_\_\_\_\_ in. Discharge size \_\_\_\_\_ in. Suction from \_\_\_\_\_  
If suction from tank, tank diameter \_\_\_\_\_ ft, height \_\_\_\_\_ ft, net capacity \_\_\_\_\_ gpm  
Driver: Electric motor \_\_\_\_\_ Diesel engine \_\_\_\_\_ Steam turbine \_\_\_\_\_  
Manufacturer: \_\_\_\_\_ Shop/serial number: \_\_\_\_\_ Model or type: \_\_\_\_\_  
Rated horsepower: \_\_\_\_\_ Rated speed: \_\_\_\_\_ If electric motor, rated voltage \_\_\_\_\_ Operating voltage \_\_\_\_\_  
Rated amps \_\_\_\_\_ Phase cycles \_\_\_\_\_ Service factor \_\_\_\_\_  
Controller manufacturer: \_\_\_\_\_  
Shop/serial number: \_\_\_\_\_ Model or type: \_\_\_\_\_  
Controller rated \_\_\_\_\_ HP \_\_\_\_\_ VAC  
Does controller rated HP & VAC match motor? \_\_\_\_\_ ☐ Yes ☐ No  
Transfer switch? \_\_\_\_\_ ☐ Yes ☐ No  
Transfer switch rated \_\_\_\_\_ HP \_\_\_\_\_ VAC  
Does controller rate HP & VAC match motor? \_\_\_\_\_ ☐ Yes ☐ No ☐ N/A  
Pressure maintenance (jockey) pump on system? \_\_\_\_\_ ☐ Yes ☐ No ☐ Manual ☐ Automatic  
Manufacturer: \_\_\_\_\_ Shop/serial number: \_\_\_\_\_  
Model or type: \_\_\_\_\_ ☐ Centrifugal or ☐ Positive displacement?  
Pressure relief valve provided on jockey pump discharge? \_\_\_\_\_ ☐ Yes ☐ No ☐ N/A  
Jockey pump rated for \_\_\_\_\_ gpm at \_\_\_\_\_ psi at \_\_\_\_\_ RPM \_\_\_\_\_ HP  
Jockey pump suction size \_\_\_\_\_ in. Discharge size \_\_\_\_\_ in.  
Jockey pump controller manufacturer: \_\_\_\_\_  
Shop/serial number: \_\_\_\_\_ Model or type: \_\_\_\_\_  
Jockey pump controller rated \_\_\_\_\_ HP \_\_\_\_\_ VAC  
Does jockey pump controller rated HP & VAC match motor? \_\_\_\_\_ ☐ Yes ☐ No

Note: All blanks are to be filled in. All questions are to be answered Yes, No, or Not Applicable.  
All "No" answers are to be explained in the comments portion of this form.

#### I. People Present

- A. Owner or owner's representative? \_\_\_\_\_ ☐ Yes ☐ No  
B. Other attendees? \_\_\_\_\_ ☐ Yes ☐ No

#### II. Electric Wiring

- A. Was any defect noted in the electric wiring? \_\_\_\_\_ ☐ Yes ☐ No ☐ N/A

#### III. Annual Flow Test

- A. Is a copy of the manufacturer's certified pump test curve attached? \_\_\_\_\_ ☐ Yes ☐ No  
B. Test results compared to the following: 1. The manufacturer's certified pump test curve? \_\_\_\_\_ ☐ Yes ☐ No  
2. The nameplate? \_\_\_\_\_ ☐ Yes ☐ No  
C. Gauges and other test equipment calibrated? \_\_\_\_\_ ☐ Yes ☐ No  
D. No vibrations that could potentially damage any fire pump component? \_\_\_\_\_ ☐ Yes ☐ No ☐ N/A  
E. The fire pump performed at all conditions without objectionable overheating of any component? ... ☐ Yes ☐ No ☐ N/A

FIGURE A.8.4.1 Sample Annual Centrifugal Pump Test Form

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2017 Edition

F. For each test, record the required information for each load condition using the following formulas (or other acceptable methods) and tables:

$$P_{Net} = P_{Discharge} - P_{Suction}$$
$$Q = 29.83 cd^2 p^{0.5}$$
$$Pv = 0.43352 V^2 / (2g) = (Q^2) / (890.47 D^4)$$

where

$P_{Net}$  = Net pump pressure (psi)  $P$  = Pressure measured on gauge (pitot)

$P_{Discharge}$  = Total pressure at the pump discharge (psi)  $Pv$  = Velocity pressure (psi)

$P_{Suction}$  = Total pressure at the pump suction (psi)  $V$  = Velocity of liquid (ft/sec)

$Q$  = Flow through a circular orifice (gpm)  $g$  = Gravitational constant (32.174 ft/sec)

$c$  = Nozzle discharge coefficient  $D$  = Internal pipe diameter (in.)

$d$  = Nozzle orifice diameter (in.)

Test	Pump speed (rpm)	Suction pressure (psi)	Discharge pressure (psi)	Nozzle size (in.) Nozzle coef.						Flow (gpm)	Net pressure (psi)	RPM adjusted net pressure	RPM adjusted flow (psi)	Suction velocity pressure (psi) <sup>1</sup>	Discharge velocity pressure (psi) <sup>1</sup>	Velocity adjusted pressure (psi) <sup>1</sup>	Oil pressure (psi) <sup>2</sup>	Exhaust back pressure (in. Hg) <sup>2</sup>	Diesel water temperature <sup>2</sup>	Cooling loop pressure (psi) <sup>2</sup>
				Pitot readings (psi)																
				1	2	3	4	5	6											
0%																				
25%																				
50%																				
75%																				
100%																				
125%																				
150%																				
0%																				
100%																				
150%																				
Pump is <input type="checkbox"/> constant speed <input type="checkbox"/> variable speed																				
Notes: (1) Velocity pressure adjustments provide a more accurate analysis in most cases and as a minimum should be included whenever the pump suction and discharge diameters are different and the pump fails by a narrow margin. The actual internal diameter of the pump suction and discharge should be obtained from the manufacturer. (2) These readings are applicable to diesel engine pumps only. Recording these readings is not specifically required in Chapter 14.																				

For electric motor-driven pumps also record the following:

Test	Voltage			Amperes		
	L1-L2	L2-L3	L1-L3	L1	L2	L3
0%						
25%						
50%						
75%						
100%						
125%						
150%						
0%						
100%						
150%						

- G. For electric motors operating at rated voltage and frequency, is the ampere demand less than or equal to the product of the full load ampere rating times the allowable service factor as stamped on the motor nameplate? ..... ☐ Yes ☐ No ☐ N/A
- H. For electric motors operating under varying voltage, determine the following:
1. Was the product of the actual voltage and current demand less than or equal to the product of the rated full load current times the rated voltage times the allowable service factor? ..... ☐ Yes ☐ No ☐ N/A
  2. Was the voltage always less than 5 percent above the rated voltage during the test? ..... ☐ Yes ☐ No ☐ N/A
  3. Was the voltage always less than 10 percent above the rated voltage during the test? ..... ☐ Yes ☐ No ☐ N/A
- I. Did engine-driven units operate without any signs of overload or stress? ..... ☐ Yes ☐ No ☐ N/A
- J. Was the engine overspeed emergency shutdown tested? ..... ☐ Yes ☐ No ☐ N/A
- K. Was the governor set to properly regulate the engine speed at rated pump speed? ..... ☐ Yes ☐ No ☐ N/A

FIGURE A.8.4.1 Continued

L. Did the gear drive assembly operate without excessive objectionable noise, vibration, or heating? ..... ☐ Yes ☐ No ☐ N/A

M. Was the fire pump unit started and brought up to rated speed without interruption under the conditions of a discharge equal to peak load? ..... ☐ Yes ☐ No ☐ N/A

N. Did the fire pump performance equal a minimum of 95 percent of the manufacturer's factory curve within the accuracy limits of the test equipment? ..... ☐ Yes ☐ No ☐ N/A

O. Did the electric motor pumps pass phase reversal test on normal and alternate (if provided) power? ..... ☐ Yes ☐ No ☐ N/A

**IV. Multiple Pump Operation**

A. \_\_\_\_\_ fire pumps are required to operate ☐ in series ☐ in parallel ☐ N/A to meet the maximum fire protection demand.

B. Record the following information for each of the \_\_\_\_\_ pumps operating simultaneously.

Test	Pump speed (rpm)	Suction pressure (psi)	Discharge pressure (psi)	Pitot readings (psi)												Oil pressure (psi)	Total flow (gpm)	Flow through net pressure (psi)	RPM adjusted flow (psi)	RPM adjusted flow (psi)	Suction velocity pressure (psi)	Suction velocity pressure (psi)	Velocity adjusted net pressure (psi)
				Pitot readings (psi)																			
				1	2	3	4	5	6	7	8	9	10	11	12								
0%																							
25%																							
50%																							
75%																							
100%																							
125%																							
150%																							
0%																							
100%																							
150%																							

Pump is ☐ constant speed ☐ variable speed

C. Did the fire pump performance equal a minimum of 95 percent of the manufacturer's factory curve within the accuracy limits of the test equipment during the multiple test? ..... ☐ Yes ☐ No ☐ N/A

**V. Main Pressure Relief Valve**

A. Is a main pressure relief valve installed on the fire pump discharge? ☐ Yes ☐ No

B. During variable speed performance testing, what was the flow rate through the main pressure relief valve at churn?  
☐ No flow ☐ Weeping flow ☐ More than weeping flow ☐ Substantial flow ☐ N/A

C. During variable speed performance testing, what was the flow rate through the main pressure relief valve at rated flow?  
☐ No flow ☐ Weeping flow ☐ More than weeping flow ☐ Substantial flow ☐ N/A

D. During constant speed performance testing, what was the flow rate through the main pressure relief valve at rated churn?  
☐ No flow ☐ Weeping flow ☐ More than weeping flow ☐ Substantial flow ☐ N/A

E. During constant speed performance testing, what was the flow rate through the main pressure relief valve at rated flow?  
☐ No flow ☐ Weeping flow ☐ More than weeping flow ☐ Substantial flow ☐ N/A

F. After resetting the pressure relief valve after performance testing, under variable speed operation, what was the flow rate through the main pressure relief valve at churn? ☐ No flow ☐ Weeping flow ☐ More than weeping flow ☐ Substantial flow ☐ N/A

G. After resetting the pressure relief valve after performance testing, under constant speed operation, what was the flow rate through the main pressure relief valve at churn? ☐ No flow ☐ Weeping flow ☐ More than weeping flow ☐ Substantial flow ☐ N/A

What was the fire pump discharge pressure? \_\_\_\_\_ psi.

H. After resetting the pressure relief valve after performance testing, under constant speed operation, at what flow rate did the pressure relief valve substantially close? \_\_\_\_\_ gpm. What was the fire pump discharge pressure when the pressure relief valve was substantially closed? \_\_\_\_\_ psi.

I. Is the maximum discharge pressure adjusted for elevation, and with the pressure relief operational, less than the pressure rating of the system components for elevation? ☐ Yes ☐ No ☐ N/A

**VI. Controller Test**

A. Did the pump start from automatic sources? ..... ☐ Yes ☐ No ☐ N/A

B. Was each automatic starting feature tested at least once? ..... ☐ Yes ☐ No ☐ N/A

C. Did the pump start manually? ..... ☐ Yes ☐ No ☐ N/A

D. Was the pump run for at least 5 minutes during each of the operations in Parts A, B, and C above? ..... ☐ Yes ☐ No ☐ N/A  
*(Note: An engine driver is not required to run for 5 minutes at full speed between successive starts until the cumulative cranking time of successive starts reaches 45 seconds.)*

E. Were the starting operations divided between both sets of batteries for engine-driven controllers? ..... ☐ Yes ☐ No ☐ N/A

F. Were both ECMs tested if supported? ..... ☐ Yes ☐ No ☐ N/A

G. Was the engine tested and RPM set on both ECMs at rated flow and full load? ..... ☐ Yes ☐ No ☐ N/A

H. Were all alarm functions, including ECM alarms for fuel injection failure, low fuel pressure, and any primary sensor failure, tested at the engine? ..... ☐ Yes ☐ No ☐ N/A

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FIGURE A.8.4.1 Continued

**WATER-BASED FIRE PROTECTION SYSTEM**

**COMPLIANCE TAG**

Person Performing ITM \_\_\_\_\_

ITM Company Name \_\_\_\_\_

ITM Company Address \_\_\_\_\_

City, State, ZIP \_\_\_\_\_

Phone \_\_\_\_\_

**TO BE REMOVED ONLY BY QUALIFIED PERSON**

Indicate Date ITM Was Performed \_\_\_\_\_

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
2014 2015 2016 2017 2018 2019

FIGURE G.2(a) Sample Compliance Tag (Green Tag).

System Identification (include facility location): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Type of ITM Performed (circle all appropriate):

INSPECTION TEST MAINTENANCE

Frequency of ITM Performed:

MONTHLY QUARTERLY

SEMI-ANNUAL ANNUAL

3-YEAR 5-YEAR OTHER

**WATER-BASED FIRE PROTECTION SYSTEM**

**CRITICAL DEFICIENCY TAG**

Person Performing ITM \_\_\_\_\_

ITM Company Name \_\_\_\_\_

ITM Company Address \_\_\_\_\_

City, State, ZIP \_\_\_\_\_

Phone \_\_\_\_\_

**TO BE REMOVED ONLY BY QUALIFIED PERSON**

Indicate Date ITM Was Performed \_\_\_\_\_

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
2014 2015 2016 2017 2018 2019

FIGURE G.2(c) Sample Critical Deficiency Tag (Orange Tag).

System Identification (include facility location): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Description of Deficiency(ies)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

See ITM Report for List of Deficiencies

**WATER-BASED FIRE PROTECTION SYSTEM**

**NONCRITICAL DEFICIENCY TAG**

Person Performing ITM \_\_\_\_\_

ITM Company Name \_\_\_\_\_

ITM Company Address \_\_\_\_\_

City, State, ZIP \_\_\_\_\_

Phone \_\_\_\_\_

**TO BE REMOVED ONLY BY QUALIFIED PERSON**

Indicate Date ITM Was Performed \_\_\_\_\_

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
2014 2015 2016 2017 2018 2019

FIGURE G.2(b) Sample Noncritical Deficiency Tag (Yellow Tag).

System Identification (include facility location): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Description of Deficiency(ies)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

See ITM Report for List of Deficiencies

**WATER-BASED FIRE PROTECTION SYSTEM**

**IMPAIRMENT TAG**

The presence of this tag indicates a DANGEROUS situation requiring immediate corrective action.

Person Performing ITM \_\_\_\_\_

ITM Company Name \_\_\_\_\_

ITM Company Address \_\_\_\_\_

City, State, ZIP \_\_\_\_\_

Phone \_\_\_\_\_

**TO BE REMOVED ONLY BY QUALIFIED PERSON**

Indicate Date ITM Was Performed \_\_\_\_\_

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  
2014 2015 2016 2017 2018 2019

FIGURE G.2(d) Sample Impairment Tag (Red Tag).

System Identification (include facility location): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Description of Deficiency(ies)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

See ITM Report for List of Impairments