



Attachment #1 VA118A-14-Q-0195

**PERFORMANCE WORK STATEMENT (PWS)**

**DEPARTMENT OF VETERANS AFFAIRS  
Office of Information & Technology  
Austin Information Technology Center (AITC)**

**Circuit Breaker Replacement**

**Date: July 23, 2014  
TAC-14-08529  
PWS Version Number: 1.1**

# Contents

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1.0	BACKGROUND.....	3
2.0	APPLICABLE DOCUMENTS .....	3
3.0	SCOPE OF WORK.....	5
4.0	PERFORMANCE DETAILS.....	5
4.1	PERFORMANCE PERIOD.....	6
4.2	PLACE OF PERFORMANCE.....	7
4.3	TRAVEL .....	7
5.0	SPECIFIC TASKS AND DELIVERABLES.....	7
5.1	PROJECT MANAGEMENT.....	7
5.1.1	PROJECT MANAGEMENT PLAN.....	7
5.1.2	REPORTING REQUIREMENTS .....	7
5.2	SWITCHBOARD/SWITCHGEAR MODIFICATION DRAWINGS .....	8
5.3	TESTING, INSTALLATION, AND ACCEPTANCE .....	8
5.3.1	TESTING .....	8
5.3.2	INSTALLATION .....	9
5.3.3	ACCEPTANCE .....	12
6.0	GENERAL REQUIREMENTS .....	13
6.1	POSITION/TASK RISK DESIGNATION LEVEL(S) AND CONTRACTOR PERSONNEL SECURITY REQUIREMENTS.....	13
6.1.1	POSITION/TASK RISK DESIGNATION LEVEL(S) .....	13
6.1.2	CONTRACTOR PERSONNEL SECURITY REQUIREMENTS .....	14
6.2	METHOD AND DISTRIBUTION OF DELIVERABLES .....	15
6.3	PERFORMANCE METRICS .....	15
6.4	FACILITY/RESOURCE PROVISIONS.....	16
6.5	TABLE -2 (EXISTING BREAKERS AND SWITCHES INFORMATION).....	17

## **1.0 BACKGROUND**

The mission of the Department of Veterans Affairs (VA), Office of Information & Technology (OIT), Austin Information Technology Center (AITC) provides benefits and services to Veterans of the United States. In meeting these goals, OIT strives to provide high quality, effective, and efficient Information Technology (IT) services to those responsible for providing care to the Veterans at the point-of-care as well as throughout all the points of the Veterans' health care in an effective, timely and compassionate manner. VA depends on Information Management/Information Technology (IM/IT) systems to meet mission goals.

Most of the existing switchboards with circuit breakers and high pressure contact switches located at the VA AITC were manufactured and installed in 1987. The switchboard housing and busbar are generally in good condition. However, many of the circuit breakers, trip units, and high pressure contact switches inside of the switchboards are outdated and unable to provide the best coordination and safety for AITC data center and building current power requirements. The older switchboards were also purchased without metering devices. New electronic trip units shall provide metering at the circuit breakers so daily load readings can be monitored. In addition, new circuit breakers and trip units will provide an improved operation that will reduce arc flash hazard which improves safety for employee and equipment.

## **2.0 APPLICABLE DOCUMENTS**

In the performance of the tasks associated with this Performance Work Statement, the Contractor shall comply with the following:

1. 44 U.S.C. § 3541, "Federal Information Security Management Act (FISMA) of 2002"
2. Federal Information Processing Standards (FIPS) Publication 140-2, "Security Requirements For Cryptographic Modules"
3. FIPS Pub 201-2, "Personal Identity Verification of Federal Employees and Contractors," August 2013
4. 10 U.S.C. § 2224, "Defense Information Assurance Program"
5. Carnegie Mellon Software Engineering Institute, Capability Maturity Model® Integration for Development (CMMI-DEV), Version 1.3 November 2010; and Carnegie Mellon Software Engineering Institute, Capability Maturity Model® Integration for Acquisition (CMMI-ACQ), Version 1.3 November 2010
6. 5 U.S.C. § 552a, as amended, "The Privacy Act of 1974"
7. 42 U.S.C. § 2000d "Title VI of the Civil Rights Act of 1964"
8. Department of Veterans Affairs (VA) Directive 0710, "Personnel Suitability and Security Program," May 18, 2007
9. VA Directive 6102, "Internet/Intranet Services," July 15, 2008
10. 36 C.F.R. Part 1194 "Electronic and Information Technology Accessibility Standards," July 1, 2003
11. Office of Management and Budget (OMB) Circular A-130, "Management of Federal Information Resources," November 28, 2000

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

12. 32 C.F.R. Part 199, "Civilian Health and Medical Program of the Uniformed Services (CHAMPUS)"
13. An Introductory Resource Guide for Implementing the Health Insurance Portability and Accountability Act (HIPAA) Security Rule, October 2008
14. Sections 504 and 508 of the Rehabilitation Act (29 U.S.C. § 794d), as amended by the Workforce Investment Act of 1998 (P.L. 105-220), August 7, 1998
15. Homeland Security Presidential Directive (12) (HSPD-12), August 27, 2004
16. VA Directive 6500, "Managing Information Security Risk: VA Information Security Program," September 20, , 2012
17. VA Handbook 6500, "Risk Management Framework for VA Information Systems – Tier 3: VA Information Security Program," September 20, 2012
18. VA Handbook 6500.1, "Electronic Media Sanitization," March 22, 2010
19. VA Handbook 6500.2, "Management of Data Breaches Involving Sensitive Personal Information (SPI)", January 6, 2012
20. VA Handbook 6500.3, "Assessment, Authorization, And Continuous Monitoring Of Va Information Systems," February 3, 2014
21. VA Handbook, 6500.5, "Incorporating Security and Privacy in System Development Lifecycle" March 22, 2010
22. VA Handbook 6500.6, "Contract Security," March 12, 2010
23. Project Management Accountability System (PMAS) portal (reference PWS References -Technical Library at <https://www.voa.va.gov/>)
24. OI&T ProPath Process Methodology (reference PWS References -Technical Library and ProPath Library links at <https://www.voa.va.gov/>) NOTE: In the event of a conflict, OI&T ProPath takes precedence over other processes or methodologies.
25. Technical Reference Model (TRM) (reference at <https://www.voa.va.gov/>)
26. National Institute Standards and Technology (NIST) Special Publications (SP)
27. VA Directive 6508, VA Privacy Impact Assessment, October 3, 2008
28. VA Directive 6300, Records and Information Management, February 26, 2009
29. VA Handbook, 6300.1, Records Management Procedures, March 24, 2010
30. OMB Memorandum, "Transition to IPv6", September 28, 2010
31. VA Directive 0735, Homeland Security Presidential Directive 12 (HSPD-12) Program, February 17, 2011
32. VA Handbook 0735, Homeland Security Presidential Directive 12 (HSPD-12) Program, March 20, 2014
33. OMB Memorandum M-06-18, Acquisition of Products and Services for Implementation of HSPD-12, June 30, 2006
34. OMB Memorandum 05-24, Implementation of Homeland Security Presidential (HSPD) 12 – Policy for a Common Identification Standard for Federal Employees and Contractors, August 5, 2005

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

35. OMB memorandum M-11-11, "Continued Implementation of Homeland Security Presidential Directive (HSPD) 12 – Policy for a Common Identification Standard for Federal Employees and Contractors, February 3, 2011
36. OMB Memorandum, Guidance for Homeland Security Presidential Directive (HSPD) 12 Implementation, May 23, 2008
37. Federal Identity, Credential, and Access Management (FICAM) Roadmap and Implementation Guidance, December 2, 2011
38. NIST SP 800-116, A Recommendation for the Use of PIV Credentials in Physical Access Control Systems, November 20, 2008
39. OMB Memorandum M-07-16, Safeguarding Against and Responding to the Breach of Personally Identifiable Information, May 22, 2007
40. NIST SP 800-63-2, Electronic Authentication Guideline, August 2013
41. Draft NIST Special Publication 800-157, Guidelines for Derived Personal Identity 523 Verification (PIV) Credentials, March 2014
42. NIST Special Publication 800-164, Guidelines on Hardware-Rooted Security in 525 Mobile Devices (Draft), October 2012
43. Draft National Institute of Standards and Technology Interagency Report (NISTIR) 7981 Mobile, PIV, and Authentication, March 2014
44. VA Memorandum, VAIQ #7100147, Continued Implementation of Homeland Security Presidential Directive 12 (HSPD-12), April 29, 2011 (reference Enterprise Architecture Section, PIV / IAM <https://www.voa.va.gov/>)
45. VA Memorandum, VAIQ # 7100145, VA Identity Management Policy, June 28, 2010 (reference Enterprise Architecture Section, PIV/IAM <https://www.voa.va.gov/>)
46. IAM Identity Management Business Requirements Guidance document, May 2013, (reference Enterprise Architecture Section, PIV/IAM <https://www.voa.va.gov/>)

### **3.0 SCOPE OF WORK**

The Contractor shall provide and install 16 new low voltage circuit breakers of equal or greater continuous current rating and interrupting capability, as well as replace the existing 14 circuit breakers and two high pressure contact switches (see Table-2 Existing Breaker Information). The 16 direct replacement circuit breakers shall be fully compatible (both mechanically and electrically) with the existing switchgear cubicles, with identical primary and secondary connections. Circuit breakers shall be selected for the existing fixed mounted type that uses GE Power Breaker II with Entellguard TU trip Units. Any cubicle requiring modification shall be identified within the proposal.

See attachment- (Table -2) Circuit Breakers and High Pressure Contact Switches Listing.

### **4.0 PERFORMANCE DETAILS**

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

Upon award, the Contractor shall submit the required information for unescorted access for essential personnel. Access is limited to immediate project area only. Contractor shall provide VA-AITC project manager with full names and driver's license information of all contract employees requiring access. Specific instructions for submitting personnel information shall be provided upon contract award.

#### **4.1 PERFORMANCE PERIOD**

The Contractor shall provide the customer approved shop drawings, installation, detail, breakers ordering detail, and breakers and installation plan within ten weeks after contract award (Engineer Phase). The Contractor shall install breakers within eight weeks after Engineer Phase. The entire project shall be completed within 18 weeks after contract is awarded. The VA will arrange for a maximum of three scheduled eight hours power outages with the Contractor for installation the breakers. The Contractor shall plan and schedule all breaker replacement around three scheduled eight hour power outages.

Power outages must be scheduled around VA available weekend times and dates.

Normal business hours are 0700 – 1700 Monday through Friday. No services shall be performed outside of normal business hours without prior approval by COR.

There are ten Federal holidays set by law (USC Title 5 Section 6103) that VA follows:

Under current definitions, four are set by date:

New Year's Day	January 1
Independence Day	July 4
Veterans Day	November 11
Christmas Day	December 25

If any of the above falls on a Saturday, then Friday shall be observed as a holiday. Similarly, if one falls on a Sunday, then Monday shall be observed as a holiday.

The other six are set by a day of the week and month:

Martin Luther King's Birthday	Third Monday in January
Washington's Birthday	Third Monday in February
Memorial Day	Last Monday in May
Labor Day	First Monday in September
Columbus Day	Second Monday in October
Thanksgiving	Fourth Thursday in November

## **4.2 PLACE OF PERFORMANCE**

Tasks under this PWS shall be performed in VA facilities located at 1615 Woodward Street, Austin, Texas 78772.

## **4.3 TRAVEL**

The contractor shall provide all travel required to complete this PWS.

## **5.0 SPECIFIC TASKS AND DELIVERABLES**

The Contractor shall perform the following:

### **5.1 PROJECT MANAGEMENT**

#### **5.1.1 PROJECT MANAGEMENT PLAN**

The Contractor shall deliver a Project Management Plan (PMP) that lays out the Contractor's Breaker Replacement approach, timeline and tools to be used in execution of the contract (depicting how the new breakers will be integrated into existing switchboards and panels). The PMP should take the form of both a narrative and graphic format that displays the schedule, milestones, risks and resource support. The PMP shall also include how the Contractor shall coordinate and execute planned, routine, and ad hoc data collection reporting requests as identified within the PWS. The initial baseline PMP shall be concurred upon and updated in accordance with Section B of the contract. The Contractor shall update and maintain the VA PM approved PMP throughout the period of performance.

#### **Deliverables:**

Project Management Plan

#### **5.1.2 REPORTING REQUIREMENTS**

The Contractor shall provide the Contracting Officer's Representative (COR) with Weekly Progress Reports in electronic form in Microsoft Word and Project formats. The report shall include detailed instructions/explanations for each required data element, to ensure that data is accurate and consistent. These reports shall reflect data as of the last day of the preceding week.

The Weekly Progress Reports shall cover all work completed during the reporting period and work planned for the subsequent reporting period. The report shall also identify any problems that arose and a description of how the problems were resolved. If problems have not been completely resolved, the Contractor shall provide an explanation including their plan and timeframe for resolving the issue. The Contractor shall monitor performance against the PMP and report any deviations. It is expected that the Contractor will keep in communication with VA accordingly so that issues that arise are transparent to both parties to prevent escalation of outstanding issues.

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

Weekly conference call will be held throughout the duration of the project with all appropriate government and contractor personnel. Onsite meetings will be required on the week before each scheduled power outages for circuit breakers installation.

**Deliverables:**

Weekly Progress Report

**5.2 SWITCHBOARD/SWITCHGEAR MODIFICATION DRAWINGS**

The Contractor shall provide a set of preliminary switchboard/switchgear modification drawings, and nameplate information. In addition, the Contractor shall submit AutoDesk Computer Aided Drawings (AutoCAD) reproducible drawings for approval: Cubicle modifications drawings, panel cutout, trim plate, mounting detail, breaker installation.

**Deliverables**

- A. Switchboard/switchgear modification drawings
- B. Nameplate information
- C. Approved AutoCAD drawings

**5.3 TESTING, INSTALLATION, AND ACCEPTANCE**

**5.3.1 TESTING**

The Contractor shall install the circuit breaker equipment at the site identified in section 4.2, per the project schedule. The circuit breaker replacements must be compatible existing equipment. Installation shall be performed by certified technicians. The breaker supplier shall have an in place dedicated Quality Assurance Department. The replacement breaker manufacturer shall verify functional operation of all circuit breaker interlocks, cell interfaces and levering assembly in a cell structure at the factory and again verify the same at each cell location for which the replacement breaker is installed. Contractor shall assume full responsibility and liability for compliance with all applicable codes, standards, and regulations pertaining to the health and safety of personnel during execution of all work and shall hold the Government harmless for any action on the Contractor's part, or that of the Contractor's employees or subcontractors that results in illness, injury, or death. The Contractor shall have written safety and health programs in compliance with 29 CFR Part 1910. The technicians shall also set all trip unit settings on each replacement circuit breaker as required for each circuit breaker being replaced under this project. The government shall furnish the technicians with a recent coordination study for this purpose. The Contractor shall utilize the accepted checklist (see below) for testing of the installed equipment, to ensure it meets all of the requirements.

1. Each circuit breaker shall be load tested prior to delivery. Field primary injection breaker test will also be required at the VA before installing.
2. Production tests shall be made in accordance with American National Standards Institute (ANSI) C37.50 clause 6.0 and ANSI/Institute of Electrical and



Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

Electronics Engineers (IEEE) C37.20.1, clause 6.3 and record copy provided to the customer.

3. The circuit breakers shall be design and production tested according to ANSI C37.50, ANSI/IEEE C37.20.1, and C37.51. Certified test reports on the identical circuit breakers may be submitted for acceptance in lieu of performing design tests.
4. The following ANSI C37.50 design tests on the circuit breaker, mounted within the existing cubicle shall be performed. Certified test results may be submitted for acceptance in lieu of performing tests a through d, only if the Contractor has performed similar direct replacements on the equipment listed herein.
  - a. Dielectric Tests – clause 3.5
  - b. Rated Continuous Current-Carrying Test - clause 3.6 (c) Mechanical Endurance Test – clause 3.8.4
  - c. Short-time Current Test – clause 3.9.10
  - d. Momentary Peak Withstand Test – similar to MV test but at the values specified for LVCB

**Deliverables**

Certified Test Reports

**5.3.2 INSTALLATION**

The installation of new replacement circuit breakers shall be suitable for use in the existing circuit breaker cubicle and have been fully tested in accordance with Section 5.3.1 and ANSI/IEEE C37.13 and Tables 1& 2 of ANSI C37.16. Only circuit breakers that have passed appropriate ANSI design tests shall be used in the direct replacement. Main current-carrying parts, insulators, supports, and housings of the existing circuit breaker cubicle shall have sufficient mechanical strength to withstand, without incurring damage, the effect of rated short-circuit currents of switchgear/switchboard and the protection devices/loads. The contractor shall replace the existing 14 circuit breakers and two high pressure contact switches. This equipment will remain as government property, unless specified in the proposal. The Contractor shall ensure the site is cleaned and removed of all debris, trash, and Contractor equipment prior to completion of installation.

1. Manufacturer of the new Low Voltage Replacement Circuit Breaker shall be currently engaged in the design and manufacturing of the LV Circuit Breakers and Electronic Trip Units.
2. Manufacturer of the new Low Voltage Replacement Circuit Breakers shall own and operate an Engineering Service Organization.
3. Manufacturer and installers shall have experience in replacement breaker design for a minimum of five years.
4. Manufacturer and installers shall have replacement circuit breakers in service for a minimum of five years.

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

5. The new circuit replacement breakers shall be compatible with the manufacturer that is currently installed in the switchboard/switch gear.

**Circuit Breaker Requirements**

1. All breakers installed in the Main Distribution Switchboard shall have an interrupting rating of 200KA Symmetrical.
2. All breakers installed in all the other Distribution Switchboard/Switchgear shall have an interrupting rating of 100KA Symmetrical as a minimum or the Switchboard/Switchgear rating if the rating is higher.
3. The quantity of different circuit breakers frames shall be reduced by limiting the dissimilar frame rating and using rating plug or equal for using higher rated frame with smaller operating ampere. This shall reduce the amount of spare parts and shall allow an easier interchanging among the breakers. The following listing shows the acceptable different frames sizes groups:
  - a) Frames below 800A shall have the same frame sizes.
  - b) 800A thru 2000A shall have the same frame sizes.
  - c) 2500A thru 3000A shall have the same frame sizes.
  - d) 4000A shall have its frame size if unable to be included with 2500A thru 3000A frame.
4. Any modification to the acceptable frame size grouping shall be identified in the proposal for consideration.
5. Unless otherwise specified, the new circuit breakers shall be rated in accordance with the latest issues of ANSI/IEEE C-37.13 and Tables 1&2 of ANSI C37.16.
6. Each circuit breaker mechanisms shall be equipped with the following:
  - a) Main contact position indicator or target,
  - b) Manual tripping and closing devices,
  - c) Spring charged and discharged indicator or target.

**Trip Units Requirements**

1. Circuit breaker trip system shall be electronic trip unit Entelliguard Trip Unit (TU)
2. All trip units shall be removable to allow for field upgrades.
3. Trip units shall incorporate "True Root Mean Square (RMS) Sensing" and have Light Emitting Diode (LED) long-time pickup indications.
4. Trip unit functions shall consist of adjustable long-time pickup and delay, short-time pickup and delay, instantaneous and ground-fault pickup and delay with alarms.
5. Adjustable long-time pickup ( $I_r$ ) and delay shall be available in an adjustable rating plug that is Underwriter's Laboratories (UL) Listed as field-replaceable. Adjustable rating plug shall allow for nine long-time pickup settings from 0.4 to 1 times the sensor plug ( $I_n$ ). Other adjustable rating plugs shall be available for more precise settings to match the application. Long-time delay settings shall be in nine bands from 0.5–24 seconds at six times  $I_r$ .
6. Short-time pickup shall allow for nine settings from 1.5 to 10 times  $I_r$ . Short-time delay shall be in nine bands from 0.1–0.4 I 2 t ON and 0–0.4 I 2 t OFF.

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

7. Instantaneous settings on the trip units with Long Time, Short Time, Instantaneous (LSI) protection shall be available in nine bands from 2 to 15 times  $I_n$ . The Instantaneous setting shall also have an OFF setting.
8. All trip units shall have the capability for the adjustments to be set and read locally. Trip units may have the capability to electronically adjust the settings locally to fine increments below the switch settings. Fine increments for pickup adjustments are to be one ampere. Fine increments for delay adjustments are to be one second.
9. Trip unit shall provide local trip indication and capability to indicate local and remote reason for trip, i.e., overload, short circuit, or ground fault.
10. Ground-fault protection shall be available for solidly grounded three-phase, three-wire or three-phase, four-wire systems. Trip unit shall be capable of the following types of ground-fault protection: residual, source ground return, and modified differential. Ground-fault sensing systems may be changed in the field.
11. Ground-fault settings for circuit breaker sensor sizes 1200 A or below shall be in nine bands from 0.2 to 1.0 times  $I_n$ . The ground-fault settings for circuit breakers above 1200 A shall be nine bands from 500 to 1200 A.
12. Neutral current transformers shall be available for four-wire systems.
13. Trip units shall be available to provide additional protection by offering adjustable inverse definite minimum time lag (IDMTL). IDMTL provides optimized coordination by the adjustment of the slope of the long-time delay protection.
14. Trip units shall be available to provide real time metering. Metering functions include current, voltage, power, and frequency.
15. Trip units may feature i harmonic analysis and waveform capture.
16. Trip unit shall provide local trip indication and capability to indicate local and remote reason for the trip, i.e., overload, short circuit, or ground fault.

The following table indicates the standard and the additional features of the Trip Units. All features listed with an "X" are minimum requirements. All features listed with an "o", may be included.

Table-1 (Trip Unit features)

Features (Trip Units)	
True RMS	X
LSI	X
LSIG/Ground –Fault Trip	o
Ground Fault Trip and Programming	X
Adjustable Rating Plugs	X
LED - Long-time Pickup	X
LED - Trip indication	X
Digital Ammeter	X
Phase loading Bar Graph	X
Zone Selective Interlocking	X
Communication	o
LCD Dot Matrix Display	X

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

Features (Trip Units)	
Advanced User Interface	o
Protective Relay Functions	o
Thermal	o
Neutral	o
Contact Wear Indication	o
Temperature Indication	o
Incremental Fine Tuning of Settings	X
Selectable Long-time Delay Bands	o
Power Measurement	o
Waveform	o
Data Logging	o

1. The operating mechanisms shall be readily accessible for customer maintenance.
2. Refurbished and reconditioned circuit breakers, trip units, and components are not acceptable. The replacement circuit breaker, trip units, and components shall be a new construction only.

### Control and Indicating Device Requirements

1. Control relay, auxiliary contacts, and small mechanisms shall be enclosed, protected and accessible for maintenance.
2. Reused and reconditioned components will not be acceptable. All control relays, coils, motors, and mechanisms shall be new equipment.

### Deliverables

- A. Instruction books, and
- B. Complete parts list and Recommended spare parts lists

### 5.3.3 ACCEPTANCE

Upon completion of all services, the Contractor shall delivery a final acceptance certificate indicating that all requirements have been met, including installation and testing. The Project Manager with the assistance of the Contracting Officer Representative shall be responsible for inspecting and accepting services in accordance with the Performance Objectives for the contract and Federal Acquisition Regulation clauses 52.246-2 and 52.246-4.

### Deliverables

Final Acceptance Certificate

## 6.0 GENERAL REQUIREMENTS

### 6.1 POSITION/TASK RISK DESIGNATION LEVEL(S) AND CONTRACTOR PERSONNEL SECURITY REQUIREMENTS

#### 6.1.1 POSITION/TASK RISK DESIGNATION LEVEL(S)

<b>Position Sensitivity</b>	<b>Background Investigation</b> (in accordance with Department of Veterans Affairs 0710 Handbook, "Personnel Security Suitability Program," Appendix A)
<b>Low</b>	<b>National Agency Check with Written Inquiries (NACI)</b> A NACI is conducted by OPM and covers a 5-year period. It consists of a review of records contained in the OPM Security Investigations Index (SII) and the DOD Defense Central Investigations Index (DCII), FBI name check, FBI fingerprint check, and written inquiries to previous employers and references listed on the application for employment. In VA it is used for Non-sensitive or Low Risk positions.
<b>Moderate</b>	<b>Moderate Background Investigation (MBI)</b> A MBI is conducted by OPM and covers a 5-year period. It consists of a review of National Agency Check (NAC) records [OPM Security Investigations Index (SII), DOD Defense Central Investigations Index (DCII), FBI name check, and a FBI fingerprint check], a credit report covering a period of 5 years, written inquiries to previous employers and references listed on the application for employment; an interview with the subject, law enforcement check; and a verification of the educational degree.
<b>High</b>	<b>Background Investigation (BI)</b> A BI is conducted by OPM and covers a 10-year period. It consists of a review of National Agency Check (NAC) records [OPM Security Investigations Index (SII), DOD Defense Central Investigations Index (DCII), FBI name check, and a FBI fingerprint check report], a credit report covering a period of 10 years, written inquiries to previous employers and references listed on the application for employment; an interview with the subject, spouse, neighbors, supervisor, co-workers; court records, law enforcement check, and a verification of the educational degree.

The position sensitivity and the level of background investigation commensurate with the required level of access for the following tasks within the Performance Work Statement are:

	<b>Position Sensitivity and Background Investigation Requirements</b>		
<b><u>Task Number</u></b>	<b><u>Low/NACI</u></b>	<b><u>Moderate/MBI</u></b>	<b><u>High/BI</u></b>
5.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

5.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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The Tasks identified above and the resulting Position Sensitivity and Background Investigation requirements identify, in effect, the Background Investigation requirements for Contractor individuals, based upon the tasks the particular Contractor individual will be working. The submitted Contractor Staff Roster must indicate the required Background Investigation Level for each Contractor individual based upon the tasks the Contractor individual will be working, in accordance with their submitted proposal.

### 6.1.2 CONTRACTOR PERSONNEL SECURITY REQUIREMENTS

#### **Contractor Responsibilities:**

- a. Certificate of Insurance: The Contractor shall maintain all licenses and insurance coverage required to complete performance requirements. Insurance shall be provided by Contractor for any sub-contractors used during performance of services.
- b. VA-AITC Security requirements: The VA-AITC has stringent security requirements on all facilities. Contractor shall adhere to VA security requirements at all times. All contractor resources shall present valid government-issued photo ID, such as driver's license or passport, upon each visit to VA-AITC. On-site contractor resources shall have no significant criminal history (class B misdemeanor or higher). Prior to being granted unescorted access, VA-AITC security will conduct a criminal history check, which requires information from an unexpired state driver's license or state issued identification for contractor resources. Laptops and tablet computers may be used by contractor resources, but equipment shall be inspected and scanned by VA-AITC security personnel before entering or leaving the building. Contractor shall contact VA-AITC representative at least 10 days prior to the training for instructions on submitting information for the required information and accessing the building.
- c. All persons employed within the boundaries of the property or restricted-access areas shall comply with the security regulations in place at the site, including posted instructional signs. A copy of the AITC's security regulations will be made available to the contractor for an on-site review upon written request to the CO prior to the date of contract award. The AITC's security regulations may not be copied or removed from the site.
- d. The contractor agrees on behalf of himself, all employees, and employees of all subcontractors to abide by the AITC's security regulations. The contractor is required to notify all contractor and subcontractor personnel of the security regulations in place at this site.

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

- e. The contractor agrees to maintain the security and integrity of documents and drawings. They shall be clearly marked in accordance with AITC policy and may not be released or replicated without the written consent of the AITC. Any third party that they are released to (with the approval of the AITC) shall be bound by the same conditions. Any such items transmitted via the Internet may only be transmitted in an encrypted format using encryption methods approved by the Department of Commerce's National Institute for Standards and Technology (NIST).
- f. The AITC reserves the right to exclude or remove from the site any employee of the contractor or subcontractor whom the Chief, Security Services deems incompetent, careless, insubordinate, unsafe, or otherwise objectionable. The CO shall be notified of any contractor or subcontractor personnel removed from the site.
- g. Release of Information - The Contracting Officer will be the sole authorized official to release verbally or in writing, any data, draft deliverables, final deliverables, or any other written or printed materials pertaining to this contract. The contractor shall release no information.
- h. Press releases, marketing material or any other printed or electronic documentation related to this project, shall not be publicized without the written approval of the Contracting Officer.

## **6.2 METHOD AND DISTRIBUTION OF DELIVERABLES**

The Contractor shall deliver documentation in electronic format, unless otherwise directed in Section B of the solicitation/contract. Acceptable electronic media include: MS Word 2000/2003/2007/2010, MS Excel 2000/2003/2007/2010, MS PowerPoint 2000/2003/2007/2010, MS Project 2000/2003/2007/2010, MS Access 2000/2003/2007/2010, MS Visio 2000/2002/2003/2007/2010, AutoCAD 2002/2004/2007/2010, and Adobe Postscript Data Format (PDF).

## **6.3 PERFORMANCE METRICS**

The table below defines the Performance Standards and Acceptable Performance Levels for Objectives associated with this effort.

Performance Objective	Performance Standard	Acceptable Performance Levels
-----------------------	----------------------	-------------------------------

Circuit Breaker Replacement  
VA118A-14-Q-0195 Attachment #1

1. Technical Needs	Shows understanding of requirements Efficient and effective in meeting requirements Meets technical needs and mission requirements Offers quality services/products	Acceptable/ Unacceptable
2. Project Milestones and Schedule	Quick response capability Products completed, reviewed, delivered in timely manner Notifies customer in advance of potential problems	Acceptable/ Unacceptable

#### **6.4 FACILITY/RESOURCE PROVISIONS**

The Contractor shall request other Government documentation deemed pertinent to the work accomplishment directly from the Government officials with whom the Contractor has contact. The Contractor shall consider the COR as the final source for needed Government documentation when the Contractor fails to secure the documents by other means. The Contractor is expected to use common knowledge and resourcefulness in securing all other reference materials, standard industry publications, and related materials that are pertinent to the work.



# Circuit Breaker Replacement VA118A-14-Q-0195 Attachment #1

**TABLE -2 (Existing Breakers and Switches Information)**

P r i o r i t y	Names	Manuf	Model	Main Bus	Main CB	Voltage	Ph	Location	Comments	Fused Switch or Circuit Breaker	Mounting/ Operation
<b>Main Distribution Switchboard (MDSB)</b>											
		GE		4000A	4000A	480V	3	Rm 161			
1	MDSB-MAIN	GE	PowerBreak #TPSS9640D	4000A	4000A	480V	3	Rm 161	Serial#V37681, (CBR-05V) [Versa Trip Mod 2]	Circuit Breaker	Stationary, Manual
2	MDSB-OB-1	GE	High Pressure Contact Switch (HPC) #THPC3620B	2000A	2000A	480V	3	Rm 161	Cat# THPC3620B, (Names-SWDB DA, CBR07)	Fused Switch	Stationary, Manual
3	MDSB-OB-2	GE	PowerBreak #TPR6620B	2000A	2000A	480V	3	Rm 161	Serial#V09474, Select Trip Serial# V09474A, Ins-4X, Amp Setting - 1.0x (Names: CBR-04V)	Circuit Breaker	Stationary, Manual
4	MDSB-OB-5	GE	PowerBreak Cat# TPMMF768, Frame #TPMMF7	2500A	2500A	480V	3	Rm 161	Serial #245100	Circuit Breaker	Stationary, Manual
5	MDSB-OB-6	GE	PowerBreak #THP1616SS	1600A	1600A	480V	3	Rm 161	Serial# V84393, (Names: SWDB DB, CBR06)	Circuit Breaker	Stationary, Manual
<b>SWBD DA Switchboard</b>											
		GE	AV5	2000A	No Main	480/277V	3	Rm 160E	Job#53441, 480/277,3/4W, Product Type AV5, Plant Code T726+, Cust. Mark SWBD-DA		
6	DA CB2	GE	PowerBreak	800A Frame	400A	480/277V	3	Rm 160E	Serial #V83149	Circuit Breaker	Stationary, Manual
<b>SWBD DB Switchboard</b>											
		GE	AV5	1200A	No Main	480/277V	3	Rm 160E	Job#53441, 480/277,3/4W, Product Type AV5, Plant Code T726+, Cust. Mark SWBD-DB		
7	DB CB1	GE	PowerBreak, Cat#THP1610SS	1600A Frame	1000A	480/277V	3	Rm 160E	Serial #V83884	Circuit Breaker	Stationary, Manual
8	DB CB2	GE	PowerBreak, Cat#THP84SS	800A Frame	400A	480/277V	3	Rm 160E	Serial #V83150	Circuit Breaker	Stationary, Manual
9	DB CB3	GE	PowerBreak, Cat#THP84SS	800A Frame	400A	480/277V	3	Rm 160E	Serial #V83147	Circuit Breaker	Stationary, Manual
<b>Mechanical Main Switchboard (MMSB)</b>											
		GE	AV-Line Switchboard	2500A		480/277	3	Rm 150, Mech Rm	Job #55351, Product Type AV2, 3p, 4W		
10	MMSB-Main	GE	Power Break	2500A	2500A	480/277	3	Rm 150, Mech Rm	Cat# TP2525SS, SS#120228, (RMS-9 Microversa)	Circuit Breaker	Stationary, Manual
11	MMSB-DPH	GE	Power Break	1600A	1200A	480/277	3	Rm 150, Mech Rm	Cat# TP1616SS, SS#120812, (RMS-9 Microversa)	Circuit Breaker	Stationary, Manual
12	MMSB-DPH2	GE	Power Break	1600A	1600A	480/277	3	Rm 150, Mech Rm	Cat# TP1616SS, SS#120813, (RMS-9 Microversa)	Circuit Breaker	Stationary, Manual
13	SWBD DPH (Main)	GE	Power Break	1600A	1200A	480/277	3	Rm 116	Cat# TP1616SS, SS#122724	Circuit Breaker	Stationary, Manual
14	SWBD DPH2 (Main)	GE	Power Break	1600A	1200A	480/277	3	Rm 154C	Cat# TP1616SS, SS#120811	Circuit Breaker	Stationary, Manual
15	SWBD DPL2 (Main)	GE	High Pressure Contact Switch	1600	1600A	480V	3	Rm 154C	Cat# THPR3616	Circuit Breaker	Stationary, Manual
<b>Annex Main Switchboard (AMSB)</b>											
16	AMSB-Main	SqD	PEF362500LSGPLSZ	2500	2500	480V	3	Rm 169	Electronic Trip Circuit Breaker	Circuit Breaker	Stationary, Manual