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PROJECT REPORT

Federal Reserve Bank of Minneapolis

Federal Reserve Minimum Wage Workstation Review

Controls Review

Version 1.0

June 24, 2025

Legal Information

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Project Information

FIELD	DESCRIPTION
Client Name	Federal Reserve Bank of Minneapolis
Project Name	Federal Reserve Minimum Wage Workstation Review
Project Type	Controls Review
Project Location	90 Hennepin Ave, Minneapolis, MN 55401
Start Date	5/24/2025
End Date	5/28/2025
Consultant(s)	Wesley Harden
Report Version	1.1
Project Scope	Air-gapped Minimum Wage Study Workstation
Project Limitations	None
Source Testing Info (IPs/User Accounts)	N/A

Executive Summary

Cyber Advisors conducted a Compliance Review of the Federal Reserve Minimum Wage Workstation Review for Federal Reserve Bank of Minneapolis. The goal of the assessment was to determine if attackers could gain unauthorized access to sensitive data, and to ensure that Federal Reserve Bank of Minneapolis developers follow security industry best practices in order to prevent common vulnerabilities such as the OWASP Top 10 2021. The assessment was conducted remotely from Cyber Advisors offices between May 24, 2025 and May 28, 2025. Cyber Advisors identified a total of zero (0) findings, including zero (0) Critical, zero (0) High, zero (0) Medium, zero (0) Low, and zero (0) Informational severity findings.

During the course of the assessment Cyber Advisors assessed the physical access controls and handling of data while using the Minimum Wage Study workstation and discovered zero (0) issues. FRB MPLS has properly deployed the Minimum Wage Study workstation in accordance with the state of Minnesota's configuration controls. The following is a summary of the control requirements along with the observation obtained while onsite.

Enterprise Identity, Credential, and Access Management Standard

Control Name	Control Detail	Cyber Advisors Observation
1. Access Control	<p>All access to systems or data must be controlled through the use of identification and authentication mechanisms. This access control must:</p> <ul style="list-style-type: none"> • Assign privileges to individuals based on the individual's job classification and function. • Restrict privileges to the least needed for the individual or service to perform their role. • Deny all access that is not explicitly granted. • Remove all system access not explicitly required. 	Cyber Advisors reviewed user accounts and corresponding job functions and determined all accounts were appropriately provisioned based on job access requirements and least privilege. No control deficiencies noted.
2. Unique IDs	All users must be assigned a unique ID to access systems or data. IDs must not be reused for at least 10 years.	Cyber Advisors reviewed user accounts and determined all accounts were assigned unique IDs. No control deficiencies noted.
3. Device, Service, and Application Accounts	Device, service, and application accounts must be assigned to an account owner and must not be used by individuals to access the system.	Cyber Advisors reviewed all device, service, and application accounts to determine FRB MPLS meets this control requirement. No control deficiencies noted.
4. Access Approval	<p>Requests to create or modify accounts and access privileges must be documented and approved by authorized personnel before access can be granted. Each request for access must define access needs including:</p> <ul style="list-style-type: none"> • Systems and data that each user needs to access for their job function. • Level of privilege required (for example: user administrator, etc.) for accessing resources. 	Cyber Advisors reviewed the access approval process and determined all requests meet the requirements for access. No control deficiencies noted.

5. Account Review	All accounts must be reviewed upon changes in user role and at least annually for user account and every 6 months for privileged accounts and service accounts. The review must validate and recertify that all access privileges are still needed and authorized. The results of the review must be documented and unnecessary access privileges must be communicated to account administrators for removal. Review documentation must be maintained by the account administrator for at least 2 years and made available to central access control team upon request.	Cyber Advisors reviewed the implemented process for account review and determined that FRB MPLS met the control objective. No control deficiencies noted.
6. Inactive Accounts	Inactive accounts must be disabled after no more than 90 days of inactivity. Disabled accounts must be deleted within 1 year.	Cyber Advisors reviewed user accounts to determine that no currently implemented accounts need to be disabled. No control deficiencies noted.
7. Revoke Access	Accounts and privileges that are no longer required must be removed or disabled within: <ul style="list-style-type: none"> • 8 hours of notification or identification of voluntary changes in access. • 1 hour of notification or identification for users that have been involuntarily terminated or for accounts with credentials that may have been lost or compromised. 	Cyber Advisors reviewed the implemented process and the recent communication regarding accounts that have been revoked and determined FRB MPLS meets this control requirement. No control deficiencies noted.
8. Emergency Accounts	Emergency and temporary accounts must be disabled within 24 hours.	Cyber Advisors discovered no emergency accounts implemented on the system. No control deficiencies noted.

9. Privileged Accounts	Privileged IDs must be: <ul style="list-style-type: none"> • Approved by the system owner. • Assigned only to users that specifically require such privileged access. • Restricted to least privileges necessary to perform administrative responsibilities. • Granted access to only the system utilities that are needed. • Authenticated user uses multifactor authentication when accessing systems with data protection categorization of High. • Prohibited from changing privileges to another user ID either for themselves or another user without authorization. 	Cyber Advisors reviewed the approval process and implemented user accounts. No control deficiencies noted.
10. Separate Administrative Account	Privileged IDs must only be used when performing authorized administrative tasks. Non-privileged accounts must be used when performing all other tasks.	Cyber Advisors reviewed implemented user accounts and determined that administrative tasks are performed utilizing only authorized accounts and non-privileged accounts are used for all other tasks. No control deficiencies noted.
11. Segregation of Duties	Access privileges must allow for the appropriate segregation of duties by: <ul style="list-style-type: none"> • Segregating duties of individuals as necessary, to prevent malicious activity without collusion. • Ensuring that audit functions are not performed by personnel responsible for administering access control. • Maintaining a limited group of administrators (i.e. system administrators, 	Cyber Advisors reviewed and witnessed the segregation of duties utilized for accessing and maintaining the Minimum Wage Study. No control deficiencies noted.

	<p>application administrators, security administrators) with access based upon the users' roles and responsibilities.</p> <ul style="list-style-type: none"> • Ensure that critical functions and system support functions are divided among separate individuals. • Ensure that system testing functions and production functions are divided among separate individuals or groups. 	
12. Vendor Access	<p>Accounts used by vendors to access, support or maintain system components via remote access must be:</p> <ul style="list-style-type: none"> • Enabled only during the time period needed. • Disabled when not in use. • Monitored when in use. 	No vendor accounts have been created for the Minimum Wage Study. No control deficiencies noted.
13. Group Accounts	<p>Group, shared, or generic IDs password or authentication methods must be restricted as follows:</p> <ul style="list-style-type: none"> • Generic user IDs must be disabled or removed. • Shared user IDs must not exist for system administration and other critical functions. • Shared and generic user IDs must not be used to administer any system components. • Passwords and other credentials for group / role accounts must be changed when someone leaves the group / role. 	No group accounts have been created for the Minimum Wage workstation. FRB MPLS does make use of specific Firecall checkout accounts that do follow all required controls. No control deficiencies noted.

14. Authentication	<p>All users and administrators must be authenticated on all systems by using at least one of the following methods:</p> <ul style="list-style-type: none"> • Something you know, such as password or passphrase. • Something you have, such as a token device or smart card. • Something you are, such as fingerprint. 	Cyber Advisors determined all users utilize passwords to log into the Minimum Wage Study. No control deficiencies noted.
15. User Validation	The user's identity must be properly validated before modifying or communicating any authentication credential – for example, performing password resets, provisioning new tokens or generating new keys.	FRB MPLS's procedures properly validate users before modifications or before any communication of credentials occurs. No control deficiencies noted.
16. First Time Passwords	<p>First-time use and reset passwords / phrases must be:</p> <ul style="list-style-type: none"> • Set to a unique value for each user. • Changed immediately after the first use. 	The first-time password is set to a unique password and is set to expired, requiring to be changed upon first login on the Minimum Wage Study. No control deficiencies noted.
17. Password Encryption	All authentication credentials (such as passwords / phrases) must be encrypted during transmission and storage.	Cyber Advisors determined that all authentication credentials meet the encryption requirements. No control deficiencies noted.
18. Password Length	<p>Passwords must be at least:</p> <ul style="list-style-type: none"> • 8 characters long for user accounts and all mainframe accounts. • 12 characters long for privileged accounts. • 14 characters long for device, service, and application accounts. 	Cyber Advisors determined that all user accounts require a minimum of 14-character passwords. No control deficiencies noted.
19. Password Complexity	<p>Passwords must contain at least:</p> <ul style="list-style-type: none"> • 3 of the 4-character types below for user accounts and all mainframe accounts. • 4 of the 4-character types below for privileged accounts and device, service, and application accounts. 	Cyber Advisors determined that all user accounts require password complexity on all passwords. No control deficiencies noted.

	<ul style="list-style-type: none"> Character Types: <ul style="list-style-type: none"> Lower case letters. Upper case letters. Numbers. Special characters. 	
20. Minimum Password Age	Passwords / passphrases must be in place for at least 1 day. Mainframe account passwords must be in place for at least 5 days.	Cyber Advisors determined that all user accounts require a minimum password age of 7 days. No control deficiencies noted.
21. Maximum Password Age	Passwords / passphrases must be changed at least: <ul style="list-style-type: none"> Every 90 days for user accounts. Every 60 days for privileged accounts. Every 180 days for device, service, and application accounts. Every 30 days for mainframe accounts. 	Cyber Advisors determined that all user accounts require a maximum password age of 90 days. The Department of Revenue has provided written approval of this implementation. No control deficiencies noted.
22. Password History	New passwords / phrases must be different from at least the previous 24 passwords / phrases used by that account.	Cyber Advisors determined that all user accounts require a password history of 24 passwords. No control deficiencies noted.
23. Non-Password Authentication	Where authentication mechanisms other than passwords are used (for example, physical or logical security tokens, smart cards, certificates, etc.) these mechanisms must be controlled as follows: <ul style="list-style-type: none"> Authentication mechanisms must be assigned to an individual account and not shared among multiple accounts. Physical and / or logical controls must be in place to ensure only the intended account can use that mechanism to gain access. A defined registration process must be established for issuing, maintaining and retrieving hardware tokens. 	Cyber Advisors determined that no non-password authentication mechanisms were in use with the Minimum Wage workstation. No control deficiencies noted.

	When issuing a hardware token, the individual receiving the token must be authorized and verified in person by a designated official.	
24. Mask Password	All passwords must be masked (i.e., made unreadable) when being entered to prevent unauthorized individuals from viewing the password.	Cyber Advisors determined that all passwords are masked when being entered into the Minimum Wage workstation. No control deficiencies noted.
25. Account Lockout	<p>User and administrator accounts must be locked out after no more than:</p> <ul style="list-style-type: none"> • 3 consecutive invalid logon attempts by that user during a 24-hour period for systems with a data protection categorization of High • 5 consecutive invalid logon attempts by that user during a one-hour period for systems with data protection categorization of Moderate • 10 consecutive invalid logon attempts by that user during a one-hour period for systems with data protection categorization of Low <p>The account must remain locked for at least 30 minutes or until unlocked by an administrator.</p>	Cyber Advisors determined that current lockout policy includes 5 invalid logon attempts results in an account being locked out for a duration of 5 minutes. The Department of Revenue has provided written approval of this implementation. No control deficiencies noted.
26. Inactivity Timeout	Sessions must be automatically locked after 15 minutes of inactivity. The user must be required to re-authenticate to reactivate the session.	Cyber Advisors determined that the session inactivity timeout is set to 15 minutes. No control deficiencies noted.
27. Multiple Sessions	Systems must prevent multiple concurrent active sessions for individual user accounts. System and application accounts must be limited to the number of concurrent sessions needed for their purpose	Cyber Advisors determined that only one session is allowed at a time on the Minimum Wage Study workstation. No control deficiencies noted.

	and as documented in the system security plan.	
28. System Use Notification	<p>A warning banner must be displayed prior to granting access to all internal networks, applications, databases, operating systems, workstations, servers, and network devices. Users must explicitly acknowledge the warning banner before being allowed access to the system. The system warning banner must include the following information:</p> <ul style="list-style-type: none"> • The user is accessing a restricted government information system. • System usage may be monitored, recorded, and subject to audit. • Unauthorized use of the system is prohibited and may be subject to criminal and / or civil penalties. • Use of the system indicates consent to monitoring and recording. 	Cyber Advisors determined the Minimum Wage Study workstation does utilize a warning banner prior to granting access for user account login. No control deficiencies noted.
29. Authorized Distribution	<p>Users must ensure State data is only distributed to authorized personnel by:</p> <ul style="list-style-type: none"> • Only allowing authorized personnel to view content on their screen. • Only including necessary and relevant information in system output such as reports and printouts. • Only distributing system output to individuals authorized to view all content. 	Cyber Advisors determined State data is only distributed or allowed to be viewed by authorized personnel. No control deficiencies noted.

30. Database Access	<p>All access to any database containing data with a data protection categorization of High (including access by applications, administrators, and all other users) must be restricted as follows:</p> <ul style="list-style-type: none">• All user access to, user queries of and user actions on databases are through programmatic methods.• Only database administrators have the ability to directly access or query databases.• Application IDs for database applications can only be used by the applications (and not by individual users or other non-application processes).	<p>Cyber Advisors determined that no database is installed or in-use on the Minimum Wage Study workstation. No control deficiencies noted.</p>
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Enterprise Security Logging and Monitoring Standard

Control Name	Control Detail	Cyber Advisors Observation
1. Logging	Implement automated logging on all systems to reconstruct the following events: <ul style="list-style-type: none"> • All actions taken by accounts with root or administrative privileges. • Access to all log data. • All log-in attempts. • Use of and changes to identification and authentication mechanisms – including but not limited to creation of new accounts and elevation of privileges – and all changes, addition, or deletions to accounts with root or administrative privileges. • Initialization, stopping, or pausing of the logs. • Creation and deletion of system-level objects. 	Cyber Advisors determined the use of Windows events logging, Splunk, and FileSure for all logging activities on the Minimum Wage Study workstation. No control deficiencies noted.
2. Logging Individual User Access	Log all individual user access to data.	Cyber Advisors determined the use of Windows events logging, Splunk, and FileSure for logging all user activities on the Minimum Wage Study workstation. No control deficiencies noted.
3. Content of Log Records	Logged events must contain the following information: <ul style="list-style-type: none"> • User identification. • Type of event. • Timestamp. • Success or failure indication. • Origination of event. • Identity or name of affected data, system component, or resource. 	Cyber Advisors determined the content of log files on the Minimum Wage Study workstation met the requirements listed. No control deficiencies noted.

4. Log Processing Failure	Systems must provide alerts in the event of a log processing failure.	Cyber Advisors determined that logs are reviewed quarterly and would determine if any processing failures occurred. No control deficiencies noted.
5. Log Review	Review the following using automated methods, where technically possible, at least daily: <ul style="list-style-type: none"> • All security events. • Logs of all systems that store, process or transmit data with a data protection categorization of High. • Logs of all systems that perform security functions including but not limited to firewalls, intrusion detection systems / intrusion prevent systems, and authentication servers. 	All log files are collected quarterly and reviewed extensively of any identified issues. FRB MPLS actively ingests logs through the corporate Splunk configuration. No control deficiencies noted.
6. Clock Synchronization	Synchronize all system clocks to a designated internal time source that is accurate to the approved authoritative time source.	Cyber Advisors determined the Minimum Wage Study workstation is not networked and is utilizing the built-in clock. No control deficiencies noted.
7. Protection of Logs	Logs must be secured by: <ul style="list-style-type: none"> • Limiting viewing to those with a job-related need. • Protecting log files from unauthorized modifications. • Encrypting the logs in transit. • Requiring log configuration changes to be approved by authorized security personnel. 	Cyber Advisors determined that logs are protected within the Minimum Wage Study workstation. No control deficiencies noted.
8. Retention of Logs	Retain log data for at least one year, with a minimum of three months immediately available for analysis. Log data for Federal Tax Information (FTI) must be retained for seven years.	No Federal Tax Information is being logged. Logs will be kept for 3 years by FRB MPLS. No control deficiencies noted.

9. Anti-Malware Software	<p>Anti-malware software capable of detecting, removing, and protecting against all known types of malicious software on all systems commonly affected by malicious software and at critical points throughout the network.</p> <p>This software must:</p> <ul style="list-style-type: none"> • Be actively running. • Prevent users from disabling or altering the software. • Generate event logs and continuously forward to an authorized central log server. • Automatically check for and install updates at least daily. • Perform scans of the system at least weekly and real-time scans of files from external sources at endpoint and network entry/exit points as the files are downloaded, opened, or executed. • Either block or quarantine malicious code and send an alert to the administrator in response to malicious code detection. • Be capable of addressing the receipt of false positives. • Be centrally managed. 	Cyber Advisors reviewed the installed Anti-Malware software and determined it to be working properly and up to date. No control deficiencies noted.
10. Anti-Malware Review	For systems not commonly affected by malicious software, perform evaluations at least annually to identify and evaluate evolving malware threats in order to confirm whether such systems do not require anti-malware software.	FRB MPLS has implemented anti-malware on the Minimum Wage Study workstation. No control deficiencies noted.

Enterprise Physical and Environmental Security Standards

Control Name	Control Detail	Cyber Advisors Observation
1. Labeling	Systems and media must be labeled to indicate the handling and access requirements.	Cyber Advisors determined the Minimum Wage Study workstation, along with a primary and secondary hard drive have been labeled properly. No control deficiencies noted.
2. Secure Storage of Paper and Electronic Media	Paper and electronic media containing State data must be kept under the immediate protection and control of an authorized personnel or securely locked up.	Cyber Advisors determined that FRB MPLS locks all paper media within cabinets while the room is unoccupied. No control deficiencies noted.
3. Media Inventory	Electronic media containing State data must be inventoried at least annually. Inventories must be documented and any discrepancies with previous inventories must be investigated and communicated to the security incident response team.	FRB MPLS inventories the Minimum Wage Study workstation on a quarterly basis. Cyber Advisors reviewed the documented inventories. No control deficiencies noted.
4. Media Transport	<p>The transport of any kind of paper or electronic media containing State data must be strictly controlled, including the following:</p> <ul style="list-style-type: none"> • Categorize the media based on the data it contains. • Send the media by secured courier or other secure delivery method that can be accurately tracked. • Monitor the transport to ensure that each shipment is properly and timely received and acknowledged. • Document the transport of all media. • Ensure management approves any and all media that is moved from a secured area (including when media is distributed to individuals). • Restrict the activities associated with the transport of media to authorized personnel. 	The media transportation of State data follows multiple strict guidelines within FRB MPLS. All data is encrypted, and proper accountability is performed. No control deficiencies noted.

	<ul style="list-style-type: none"> • Maintain accountability for media during transport outside of secured areas. • All electronic media must be encrypted. 	
5. Secure Disposal of Electronic Media	<p>Media must be securely disposed of when it is no longer needed for business or legal reasons and in accordance with record retention requirements as follows:</p> <ul style="list-style-type: none"> • Review and approve media to be sanitized to ensure compliance with business, legal, and records retention requirements. • Sanitize or destroy all media prior to disposal, release out of State control or reuse. • Ensure the sanitization or destruction is witnessed or carried out by authorized personnel. • Verify the media sanitization or destruction was successful. • Document sanitization and destruction actions including: <ul style="list-style-type: none"> ○ Personnel who reviewed and approved sanitization or disposal actions. ○ Types of media sanitized. ○ Sanitization methods used. ○ Date and time of the sanitization actions. ○ Personnel who performed the sanitization. ○ Verification actions taken. ○ Personnel who performed the verification. 	<p>Cyber Advisors reviewed FRB MPLS's disposal process and determined it meets all requirements. No control deficiencies noted.</p>

	<ul style="list-style-type: none"> ○ Disposal action taken. • Provide the business a certificate of destruction confirming disposition of the media. 	
6. Physical Barriers	<p>Areas of the facility containing State systems and data must be physically separated from other areas of the facility by:</p> <ul style="list-style-type: none"> • Separating nonpublic areas from public areas with physical barriers (e.g., walls, doors, turnstiles, etc.) and identifying areas as nonpublic with prominent postings. • Separating sensitive areas such as data centers, network closets, and areas storing or processing data from other areas of the facility using physical barriers. • Minimizing the number of entrances to nonpublic and sensitive areas. • Controlling entry and exit points to nonpublic and sensitive areas of the facility using physical access control systems / devices and / or guards. • Restricting physical access to wireless access points, gateways, handheld devices, networking / communications hardware, and telecommunication lines. 	<p>Multiple physical barriers are implemented to restrict access to the Minimum Wage Study workstation to very limited individuals at FRB MPLS. No control deficiencies noted.</p>

7. Physical Access Control	<p>Physical access to nonpublic and sensitive areas must be controlled by:</p> <ul style="list-style-type: none"> • Developing, approving, and maintaining a list of individuals with authorized access to nonpublic and sensitive areas of the facility. This list must include: <ul style="list-style-type: none"> ○ Name of individual. ○ Agency or department name. ○ Name and contact information of agency point of contact. ○ Purpose for access. • Reviewing and updating the access list detailing authorized access by individuals at least every six months for data centers and at least annually for all other areas. • Authorizing access to nonpublic and sensitive areas based on the individual's job function. • Prohibiting "piggybacking" or "tailgating" into nonpublic or sensitive locations. • Issuing badge access, keys, and / or combinations only to authorized individuals. • Revoking access when no longer needed and ensuring all physical access mechanisms, such as keys, access cards, etc., are returned, changed, and / or disabled. • Requiring the use of two factor of authentication for physical access to data centers. • Requiring the inspection of all bags and items entering 	<p>Physical access to the room housing the Minimum Wage Study workstation is limited to strictly researchers. Other personnel require prior approval and being escorted by researchers. No control deficiencies noted.</p>
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	<p>data centers and limiting access to only those items that are needed to perform work.</p> <ul style="list-style-type: none"> • Requiring the completion of required background checks and training prior to granting access to data centers. 	
8. Physical Access Monitoring	<p>Video cameras and / or access control systems (e.g., badge readers, smart cards, biometrics, etc.) must be used to monitor and track all physical access attempts to nonpublic and sensitive areas. Video and / or access control logs must:</p> <ul style="list-style-type: none"> • Capture the following information: <ul style="list-style-type: none"> ○ The owner of the access control device requesting access and / or the identity of the individual requesting access. ○ The success or failure of the request. ○ The data and time of the request. • Be reviewed at least monthly and correlated with other entries. • Unauthorized access must be reported to the security incident response team for investigation. • Stored for at least 90 days for data centers and areas containing data with data protection categorization of High. • Be monitored 24 hours per day, 7 days per week by trained personnel who respond to potential incidents. • Be analyzed by automated mechanisms to recognize 	<p>Multiple video cameras are implemented to capture initial access to the building and specific areas of the building housing the Minimum Wage Study workstation. The cameras are monitored 24 hours a day by trained personnel. Badge readers are utilized to access all areas of the building. The access logs are reviewed frequently. No control deficiencies noted.</p>

	potential intrusions and initiate designated response actions.	
9. Physical Access Device Management	<p>Keys, combinations, and other physical access devices must be protected by:</p> <ul style="list-style-type: none"> • Storing keys, combinations, and other physical access devices in a secure location. • Inventorying and reconciling all keys and other physical access devices at least annually. • Changing combinations at least annually and when an employee who knows or has access to them no longer has a need to access the area, room, or container. • Only giving keys, combinations, and other physical access devices to those who have a frequent need to have access to the area, room, or container. 	Physical key to the Minimum Wage Study workstation room is protected within a secure location with limited access. No control deficiencies noted.
10. Visitor Access	<p>Visitors to nonpublic or sensitive areas must be:</p> <ul style="list-style-type: none"> • Authorized before entering. • Escorted and monitored at all times within nonpublic or sensitive areas. • Identified by examining government issued photo identification (e.g., state driver's license or passport) for data centers and areas containing Federal Tax Information. • Given a badge or other identification that: <ul style="list-style-type: none"> ○ Expires no later than the end of the visit. 	Visitors are not granted individual access to the room or to the Minimum Wage Study workstation. Any visitors must have prior approval and be escorted by authorized individuals to gain access to the Minimum Wage Study workstation room. No control deficiencies noted.

	<ul style="list-style-type: none"> ○ Visibly distinguishes the visitors from authorized personnel. ○ Is returned before leaving the facility or at the date of expiration. 	
11. Visitor Log	<p>A visitor log must be used to maintain a physical audit trail of all visitor activity to nonpublic and sensitive areas. This visitor log must:</p> <ul style="list-style-type: none"> • Be retained for a minimum of 12 months. • Be closed out at the end of each month and reviewed by management. • Contain the following information: <ul style="list-style-type: none"> ○ Name of the visitor. ○ Organization of the visitor. ○ Signature of the visitor (electronic or physical). ○ Form of identification reviewed (if required). ○ Date of access. ○ Time of entry and departure. ○ Purpose of visit. ○ Name and organization of authorized escort. 	<p>A visitor log is generated upon entry to the FRB MPLS building. An authorized FRB MPLS escort is with visitors at all times. No control deficiencies noted.</p>
12. Maintenance Personnel Access	<p>Physical access for cleaning, security, and maintenance personnel must be controlled by:</p> <ul style="list-style-type: none"> • Maintaining a list of authorized maintenance organizations or personnel. This list must be updated at least every 6 months and include: <ul style="list-style-type: none"> ○ Name of vendor / contractor. ○ Name and phone number of State point of 	<p>FRB MPLS requires all maintenance personnel to have prior approval of any required access to the Minimum Wage Study workstation room. All access granted will be escorted by authorized personnel. No control deficiencies noted.</p>

	<p>contact authorizing access.</p> <ul style="list-style-type: none"> ○ Name and contact information of vendor point of contact. ○ Address of vendor / contractor. ○ Purpose and level of access. <ul style="list-style-type: none"> • Ensuring that non-escorted maintenance and cleaning personnel have completed the same training, screening, and approval as authorized employees. • Designating State personnel with required access authorizations and technical competence to supervise the maintenance activities of personnel who do not have the required access authorizations. 	
13. Facilities Maintenance Records	Repairs and modifications to the physical components of a facility which are related to security (for example, door hinges and handles, walls, doors, and locks) must be approved and documented.	Any repairs or modifications are submitted and approved through the proper approval process. All access to the Minimum Wage Study workstation room is monitored and escorted by authorized personnel. No control deficiencies noted.

Security Assurance for the Federal Reserve Standards

Control Name	Control Detail	Cyber Advisors Observation
1. AC-14 Permitted Actions Without Identification or Authentication	<p>The information system owner:</p> <ul style="list-style-type: none"> Identifies specific user actions that can be performed on the information system without identification or authentication consistent with FR missions/business functions Documents and provides supporting rationale in the security plan for the information system for user actions not requiring identification or authentication 	No access to the Minimum Wage Study workstation room is granted without identification or authentication. No control deficiencies noted.
2. CA-2 Security Assessments	<p>The information system owner ensures that:</p> <ul style="list-style-type: none"> For information security control assessments required by the SAFR Life Cycle, a control assessment plan is developed that describes the scope of the assessment including: <ul style="list-style-type: none"> Security controls and control enhancement under assessment Assessment procedures to be used to determine security control effectiveness Assessment environment, assessment team, and assessment roles and responsibilities All security controls in the information system and its environment of operation are assessed during initial authorization activities, and, if needed, during re- 	FRB MPLS finalized the subsystem per the SAFR Life Cycle requirements, including undergoing an independent SAFR assessment and engaging with independent assessors. During the SAFR Life Cycle, the assessment report will be documented and shared with the AO and Research leadership. No control deficiencies noted.

	<p>authorizations. Additionally, during post-authorization continuous monitoring activities, a subset of controls will be assessed. The purpose of security control assessments is to be determined the extent to which the controls are implemented correctly, operating as intended, and producing the desired outcome with respect to meeting established security requirements</p> <ul style="list-style-type: none"> • A security assessment report is produced that documents the results of the assessment • The results of the security control assessment are provided to the authorizing official 	
3. CA-5 Plan of Action and Milestones	<p>The information system owner:</p> <ul style="list-style-type: none"> • Develops a plan of action and milestones for the information system to document the planned remedial actions to correct weaknesses or deficiencies noted during the assessment of the security controls and to reduce or eliminate known vulnerabilities in the system • Updates an existing plan of action and milestones based on the findings from security controls assessments, security impact analyses, and continuous monitoring activities 	FRB MPLS Research works with the IS Compliance and Risk management to monitor and update POAMs. No control deficiencies noted.

4. CA-7(a) Continuous Monitoring	The information system owner establishes a continuous monitoring strategy and implements a continuous monitoring program that includes: <ul style="list-style-type: none"> Establishment of metrics to be monitored 	Cyber Advisors reviewed FRB MPLS's Continuous Monitoring Procedures. No control deficiencies noted.
5. CA-7(b) Continuous Monitoring	The information system owner establishes a continuous monitoring strategy and implements a continuous monitoring program that includes: <ul style="list-style-type: none"> Establishment of required frequencies for monitoring and required frequencies for assessments supporting such monitoring 	FRB MPLS performs quarterly reviews and shares it with the system owner. No control deficiencies noted.
6. CA-7(c) Continuous Monitoring	The information system owner establishes a continuous monitoring strategy and implements a continuous monitoring program that includes: <ul style="list-style-type: none"> Ongoing security control assessments in accordance with the organizational continuous monitoring strategy 	FRB MPLS Research implements the continuous monitoring program and works with IS to document metrics in accordance with MN IT Services requirements. FRB MPLS IS Compliance and Risk Management (IS CRM) also reports SAFR policy changes to the SAFR contacts to facilitate the implementation of new or updated SAFR controls. No control deficiencies noted.
7. CA-7(d) Continuous Monitoring	The information system owner establishes a continuous monitoring strategy and implements a continuous monitoring program that includes: <ul style="list-style-type: none"> Ongoing security status monitoring of Federal Reserve selected metrics in accordance with the organizational continuous monitoring strategy 	Cyber Advisors reviewed FRB MPLS's Continuous Monitoring Procedures. No control deficiencies noted.

8. CA-7(e) Continuous Monitoring	<p>The information system owner establishes a continuous monitoring strategy and implements a continuous monitoring program that includes:</p> <ul style="list-style-type: none"> Correlation and analysis of security-related information generated by assessments and monitoring 	Cyber Advisors reviewed FRB MPLS's Continuous Monitoring Procedures. No control deficiencies noted.
9. CA-7(f) Continuous Monitoring	<p>The information system owner establishes a continuous monitoring strategy and implements a continuous monitoring program that includes:</p> <ul style="list-style-type: none"> Response actions to address results of the analysis of security-related information 	Cyber Advisors reviewed FRB MPLS's Continuous Monitoring Procedures. No control deficiencies noted.
10. CA-7(g) Continuous Monitoring	<p>The information system owner establishes a continuous monitoring strategy and implements a continuous monitoring program that includes:</p> <ul style="list-style-type: none"> Reporting the security status of the Federal Reserve to Information Security governance entities 	Cyber Advisors reviewed FRB MPLS's Continuous Monitoring Procedures. No control deficiencies noted.
11. CM-2 Baseline Configuration	The information system owner develops, documents, and maintains under configuration control a current baseline configuration of the information system.	FRB MPLS Research collaborated with MPLS IS and IT to evaluate the configuration settings. All settings have been documented, retained, and will be updated should any changes occur. No control deficiencies noted.
12. CM-7 Least Functionality	<p>The information system owner:</p> <ul style="list-style-type: none"> Configures the information system to provide only essential capabilities Prohibits or restricts the use of system owner-defined functions, ports, protocols, and/or services 	FRB MPLS IT configures the system to provide only essential business functions. No unnecessary ports, protocols, or services are configured on the standalone workstation. No control deficiencies noted.

13. RA-3 Risk Assessment	<p>The Federal Reserve:</p> <ul style="list-style-type: none"> • Conducts an assessment of risk, including the likelihood and magnitude of harm, from the unauthorized access, use, disclosure, disruption, modification, or destruction of the information system and the information it processes, stores, or transmits • Documents risk assessment results • Reviews risk assessment results • Disseminates risk assessment results to appropriate personnel • Updates the risk assessment whenever there are significant changes to the information system or environment of operation (including the identification of new threats and vulnerabilities), or other conditions that may impact the security state of the system. 	<p>FRB MPLS Research consults IS CRM prior to new components or upgrades. All results of the SAFR Life Cycle process are shared with the information system Authorizing Official prior to the approval decision. Additionally, the IS CRM manages the SAFR Life Cycle and presents the risk assessment results prior to requesting approval from AO, AODR, or SO, and ISO. No control deficiencies noted.</p>
14. RA-5(a) Vulnerability Scanning	<p>The Federal Reserve:</p> <ul style="list-style-type: none"> • Scans for vulnerabilities in the information system and hosted applications. Frequency of the scans will adhere to the requirements for vulnerability assessments and when significant new vulnerabilities potentially affecting information systems are identified and reported 	<p>The workstation is standalone and is not subject to network scanning. SEP and Microsoft security patches are manually applied on a quarterly basis. No control deficiencies noted.</p>
15. RA-5(b) Vulnerability Scanning	<p>The Federal Reserve:</p> <ul style="list-style-type: none"> • Employs vulnerability scanning tools and 	<p>The workstation is standalone and is not subject to network scanning. SEP and Microsoft security patches</p>

	<p>techniques that facilitate interoperability among tools and automate parts of the vulnerability management process by user standards for:</p> <ul style="list-style-type: none"> ○ Enumerating platforms, software flaws, and improper configurations ○ Formatting checklists and test procedures ○ Measuring vulnerability impact 	are manually applied on a quarterly basis. No control deficiencies noted.
16. RA-5(c) Vulnerability Scanning	<p>The Federal Reserve:</p> <ul style="list-style-type: none"> • Analyzes vulnerability scan reports and results from security control assessments. 	On a quarterly basis, MPLS IT extracts the SEP and system log files and MPLS IS Ops analyzes the data and creates a report that is forwarded to Research. No control deficiencies noted.
17. RA-5(d) Vulnerability Scanning	<p>The Federal Reserve:</p> <ul style="list-style-type: none"> • Remediates legitimate vulnerabilities in accordance with FR-designated response times 	The Microsoft components are patched on a quarterly basis and any identified software vulnerabilities would follow the NIRT requirements for remediation activities and timing. No control deficiencies noted.
18. RA-5(e) Vulnerability Scanning	<p>The Federal Reserve:</p> <ul style="list-style-type: none"> • Shares information obtained from the vulnerability scanning process and security control assessments with designated personnel to help eliminate similar vulnerabilities in other information systems (i.e., systemic weaknesses or deficiencies) 	SEP and system logs that may contain identified vulnerabilities or weaknesses would be shared with appropriate IT and Research staff for awareness and remediation. No control deficiencies noted.
19. CM-2 Baseline Configuration	The information system owner develops, documents, and maintains under configuration control a current baseline configuration of the information system.	FRB MPLS Research collaborated with MPLS IS and IT to evaluate the configuration settings. All settings have been documented, retained, and will be updated should any

		changes occur. No control deficiencies noted.
20. SI-2(a) Flaw Remediation	The information system owner: <ul style="list-style-type: none"> Identifies, reports, and corrects information system flaws 	On a quarterly basis, MPLS IT extracts the SEP log files and MPLS IS Ops analyzes the data and creates a report that is forwarded to Research. The Microsoft components are patched on a quarterly basis to address published flaws (remediation). No control deficiencies noted.
21. SI-2(b) Flaw Remediation	The information system owner: <ul style="list-style-type: none"> Tests software and firmware updates related to flaw remediation for effectiveness and potential side effects before installation 	FRB MPLS Research performs the quarterly patch kit to other standalone workstations for results identification prior to installation to the Minimum Wage standalone workstation. No control deficiencies noted.
22. SI-2(c) Flaw Remediation	The information system owner: <ul style="list-style-type: none"> Installs security-relevant software and firmware updates within defined time period of the release of the updates 	SEP and Microsoft security patches are manually applied on a quarterly basis. System firmware will be applied on a as needed basis indicated by NIRT alerts. No control deficiencies noted.
23. SI-2(d) Flaw Remediation	The information system owner: <ul style="list-style-type: none"> Incorporates flaw remediation into configuration management processes 	The configuration management process is the established quarterly process. No control deficiencies noted.
24. SI-12 Information Handling and Retention	The information system owner handles and retains information within the information system and information output from the system in accordance with applicable laws, policies, standards, and operational requirements.	FRB MPLS retains logs for at least three years. Other data and reports are retained for the length of the project. FRB retains wiping certificates as evidence of media sanitation. No control deficiencies noted.