



U.S. Department of the Interior PRIVACY IMPACT ASSESSMENT

Introduction

The Department of the Interior requires PIAs to be conducted and maintained on all IT systems whether already in existence, in development or undergoing modification in order to adequately evaluate privacy risks, ensure the protection of privacy information, and consider privacy implications throughout the information system development life cycle. This PIA form may not be modified and must be completed electronically; hand-written submissions will not be accepted. See the [DOI PIA Guide](#) for additional guidance on conducting a PIA or meeting the requirements of the E-Government Act of 2002. See Section 6.0 of the DOI PIA Guide for specific guidance on answering the questions in this form.

NOTE: See Section 7.0 of the DOI PIA Guide for guidance on using the DOI Adapted PIA template to assess third-party websites or applications.

Name of Project: Missouri Basin Reclamation Services and Applications Mission Support (MB RSAMS)

Bureau/Office: Bureau of Reclamation/Missouri Basin Regional Office

Date: April 3, 2025

Point of Contact:

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Section 1. General System Information

A. Is a full PIA required?

Yes, information is collected from or maintained on

Members of the general public

Federal personnel and/or Federal contractors

Volunteers

All

No: *Information is NOT collected, maintained, or used that is identifiable to the individual in this system. Only sections 1 and 5 of this form are required to be completed.*



B. What is the purpose of the system?

The MB RSAMS is a collection of Information Technology resources across the Missouri Basin Region that provides mission-specific functions deemed to have significant impact on the Region's mission and business operations if the confidentiality, integrity, or availability of these resources were compromised. Specifically, the parent MB RSAMS system contains a minor application and a collection of databases and custom-built programs supporting the Region's water resource management.

Hydromet obtains and processes water resource management information. It is a network of hydrologic and meteorological monitoring stations located throughout the MB Region. The Hydromet network collects remote field data and transmits it via satellite to provide real-time water management capability. Hydromet data is then integrated with other sources of information to provide streamflow forecasting and current runoff conditions for river and reservoir operations. Dedicated Hydromet servers in Denver act as a proxy for Hydromet, requesting information from Hydromet and then providing that information to the public via Reclamation's public web servers. Hydromet also contains the following specialized applications: North Platte River Annual Operating Plan; Wind River Basin Annual Operating Plan and the North Platte River Water Accounting.

Active Directory (AD) account information for user access is through Enterprise AD (EAD), which is assessed separately through the Department of the Interior's (DOI) Enterprise Hosted Infrastructure (EHI). The EHI privacy impact assessment (PIA) is available at <https://www.doi.gov/privacy/pia>.

Services such as, encryption protection, virus/malware protection, system management, and vulnerability scanning are assessed separately through the BOR General Support System (BOR GSS) as these are Bureau wide services.

This PIA is being conducted to document the privacy protections that are in place for the MB RSAMS infrastructure and the Hydromet system that is hosted by MB RSAMS. This PIA will be updated as the authorization boundary changes, or subsystems are added to address any privacy risks. Any subsystem that presents unique privacy risks will be assessed separately.

C. What is the legal authority?

5 U.S.C. 301; the Paperwork Reduction Act of 1995 (44 U.S.C. 3501); the Government Paperwork Elimination Act (Pub. L. 105-277, 44 U.S.C. 3504); and Homeland Security Presidential Directive 12, Policy for a Common Identification Standard for Federal Employees and Contractors, August 27, 2004; E-Government Act of 2002, as amended; 110 Departmental Manual 18; Federal Information Security Modernization Act of 2014; Clinger-Cohen Act.



D. Why is this PIA being completed or modified?

- New Information System
- New Electronic Collection
- Existing Information System under Periodic Review
- Merging of Systems
- Significantly Modified Information System
- Conversion from Paper to Electronic Records
- Retiring or Decommissioning a System
- Other: *Describe*

E. Is this information system registered in the Governance, Risk and Compliance platform (GRC)?

Yes: System Name: Missouri Basin Reclamation Services and Applications Mission Support (MB RSAMS) BOR-0531-MIN-2423.

No

F. List all minor applications or subsystems that are hosted on this system and covered under this privacy impact assessment.

Subsystem Name	Purpose	Contains PII (Yes/No)	Describe If Yes, provide a description.
MB RSAMS	Hydromet Water Resource Management	Yes	Usernames and passwords. The use of usernames and passwords is being addressed in this PIA.
Water Resource Management Applications	Water Resource Management	No	Not Applicable
Fryingpan-Arkansas Project	Water Resource Management	No	Not Applicable
MTAO River Operations Modeling System	Water Resource Management	No	Not Applicable
WYAO River Operations Modeling System	Water Resource Management	No	Not Applicable

G. Does this information system or electronic collection require a published Privacy Act System of Records Notice (SORN)?



Yes: Active Directory records are covered by DOI-47, Logical Security Files (Enterprise Access Control Service/EACS), 72 FR 11040, March 12, 2007; modification published 86 FR 50156 (September 7, 2021).

No

H. Does this information system or electronic collection require an OMB Control Number?

Yes: *Describe*

No

Section 2. Summary of System Data

A. What PII will be collected? Indicate all that apply.

Name

Other: MB RSAMS utilizes EAD, which collects username, password hash values, business contact information, official title, Personal Identification Verification (PIV) credential certificate information, and supervisor name. The Hydromet system utilizes the HEAT Service Catalog Hydromet/Oracle Account request form to create username and passwords for authorized users. After supervisor approval the request is digitally routed to appropriate IT staff to ensure changes are made.

B. What is the source for the PII collected? Indicate all that apply.

Individual

Federal agency

Tribal agency

Local agency

DOI records

Third party source

State agency

Other: *Describe*

C. How will the information be collected? Indicate all that apply.

Paper Format

Email



- Face-to-Face Contact
- Web site
- Fax
- Telephone Interview
- Information Shared Between Systems
- Other: Information from AD is provided by EHI upon creation of the account with DOIAccess. EAD continuously updates data across the DOI Domain. When a user logs onto the system the 'username' is captured in system audit logs, which provide a chronological record of information system activities, including access and operations performed by a specific user, and documented with a date and time stamp.

D. What is the intended use of the PII collected?

PII is used in the creation and administration of AD user accounts for the purpose of authenticating individuals and managing user access to the DOI network and Reclamation's computing environment. EAD provides access control and user authentication services across the DOI Domain. Hydromet collects PII to establish usernames and passwords to access the system.

E. With whom will the PII be shared, both within DOI and outside DOI? Indicate all that apply.

- Within the Bureau/Office: User information may be shared to support access management functions for the network and computing environment, including resetting passwords and authenticating the identity of users. System Administrators perform reviews to ensure that all active user accounts are current employees with a need for access. In the event of an incident response investigation, it may be necessary to share the information with internal investigators.
- Other Bureaus/Offices: The MB RSAMS is comprised of infrastructure components and any data within the system is limited to officials and users conducting official business. Data residing on the MB RSAMS system will be shared with other DOI Bureaus and Offices for official purposes, including incident reporting, security monitoring events that may result in criminal investigations, and only when given proper authorization through the correct channels within the DOI and/or Reclamation.
- Other Federal Agencies: The HSPD-12 program is a government-wide requirement managed by the General Services Administration (GSA) and is subject to Federal requirements for participating agencies that involve sharing of data – see government-wide system notice GSA/GOVT-7: Personal Identity Verification Identity Management System. DOI user network access records are maintained under DOI-47: HSPD-12: Logical Security Files (Enterprise Access Control Service/EACS) system of



records notice and may be shared with other Federal Agencies as authorized pursuant to the routine uses in the notice. These notices may be viewed at <https://www.doi.gov/privacy/sorn>.

Tribal, State or Local Agencies: PII is not shared with Tribal, State or Local agencies except where authorized by law, under the Privacy Act or pursuant to the routine uses contained in the DOI-47: HSPD-12: Logical Security Files (Enterprise Access Control Service/EACS) system of records notice.

Contractor: *Describe the contractor and how the data will be used.*

Other Third Party Sources: Water resource management data is shared with the public, however, PII is not shared with third parties unless required by law. Law enforcement and individual legal representation at the city, state, or federal level may see the information during incident response investigation.

F. Do individuals have the opportunity to decline to provide information or to consent to the specific uses of their PII?

Yes: User information is voluntarily provided by employees, originally created and obtained during new employee onboarding process for PIV credentials through various forms that contain Privacy Act Statements that include the Authority, Purpose, Routine Uses, and Disclosure. Users can consent during the onboarding process to provide their information for issuance of government credentials. If users decline to provide the required information upon employment, they will not be provided credentials or a domain user account to access the DOI network and information systems, which will impact employment.

No: *State the reason why individuals cannot object or why individuals cannot give or withhold their consent.*



**G. What information is provided to an individual when asked to provide PII data?
Indicate all that apply.**

- Privacy Act Statement: Users are provided a Privacy Act statement during new employee onboarding process for PIV credentials, and the HEAT Service Catalog Hydromet/Oracle Account request form.
- Privacy Notice: Notice is provided through the publication of this PIA. Employees may also view the EHI PIA and the DOI-47: HSPD-12: Logical Security Files (Enterprise Access Control Service/EACS) system of records notice for information on network user information is handled.
- Other: The following notice is provided by Reclamation's login banner to the network.

WARNING TO USERS OF THIS SYSTEM. THIS IS A NOTICE OF MONITORING OF THE DEPARTMENT OF THE INTERIOR (DOI) INFORMATION SYSTEMS.

This computer system, including all related equipment, networks, and network devices (including Internet access), is provided by the Department of the Interior (DOI) in accordance with the agency policy for official use and limited personal use. All agency computer systems may be monitored for all lawful purposes, including but not limited to, ensuring that use is authorized, for management of the system, to facilitate protection against unauthorized access, and to verify security procedures, survivability, and operational security. Any information on this computer system may be examined, recorded, copied and used for authorized purposes at any time. All information, including personal information placed or sent over this system may be monitored, and users of this system are reminded that such monitoring does occur. Therefore, there should be no expectation of privacy with respect to use of this system. By logging into this agency computer system, you acknowledge and consent to the monitoring of this system. Evidence of your use, authorized or unauthorized, collected during monitoring may be used for civil, criminal, administrative, or other adverse action. Unauthorized or illegal use may subject you to prosecution.

None

H. How will the data be retrieved? List the identifiers that will be used to retrieve information (e.g., name, case number, etc.).

Information is retrieved using EAD native tools that allow for retrieval by employee name, username, workstation name, and EAD group name.



I. Will reports be produced on individuals?

Yes: MB RSAMS and Hydromet can generate audit reports. Audit logs show username, date and time of system access, number of failed attempts and commands initiated. Audit logs may also record specific files accessed by the user if such logging is enabled. The System Administrator can provide audit logs and share them with other entities if an event needs investigation.

No

Section 3. Attributes of System Data

A. How will data collected from sources other than DOI records be verified for accuracy?

Data is not collected from other sources.

B. How will data be checked for completeness?

User information that is obtained from the EAD is kept current through procedures managed by DOI.

Hydromet and Oracle Accounts are subject are disabled after 45 days of inactivity and are deleted after 365 days of inactivity or on employee departure whatever comes first. When changes need to be made to a user's account, either the user or their supervisor will initiate an Account Action Ticket in HEAT which is digitally routed to appropriate IT staff to ensure changes are made.

C. What procedures are taken to ensure the data is current? Identify the process or name the document (e.g., data models).

System account administration work orders follow standard operating procedures, which are updated as changes occur to the account management process. The procedure includes verifying that the current user accounts on the system are associated with active employees. User information that is obtained from the EAD is kept current through procedures managed by DOI. Following the Continuous Diagnostic and Mitigation requirements, accounts are reviewed monthly.

D. What are the retention periods for data in the system? Identify the associated records retention schedule for the records in this system.



Records on user activity are retained in accordance with Department Records Schedule (DRS) – 1, Administrative schedule 1.4 A.1 – [0013] Short Term IT Records – System Maintenance and Use Records (DAA-0048-2013-0001-0013). These records have a temporary disposition. Records are cut-off when obsolete and destroyed no later than 3 years after cut-off.

Hydromet records are covered under the Reclamation records retention schedule RES-7.00 Power Control Centers for Project Development and Power Management by the National Archives and Records Administration (NARA) approval authority N1-115-94-8, which is being incorporated into the Departmental Records Schedule (DRS) 2.4.1.06 “*Mission – Provide a Scientific Foundation for Decision Making - Hydroelectric Power Research 75 yrs*”. Records retention will be Temporary (Long-Term) under the new DRS-2 and will be cutoff at the end of the fiscal year. Transfer to the Federal Records Center (FRC) 10 years or earlier if volume warrants. Records will be destroyed 75 years after cutoff.

E. What are the procedures for disposition of the data at the end of the retention period? Where are the procedures documented?

Once user accounts are terminated in the system, the records are removed in accordance with the DRS and other applicable bureau/office records retention schedules. Reports are not generated. Procedures for disposition of the data stored in individual applications will vary by application. When a user account is disabled or terminated in the EAD, all access will be denied since the user will no longer have the ability to log onto or authenticate to the network. The EAD user objects can be set to automatically expire at a given date to ensure that a user does not have access past the period of performance or contract. When the account is disabled, all access to the network and all MB RSAMS systems are explicitly denied and all attempts to gain access are logged. Approved disposition methods include erasing, degaussing, deleting, and shredding in accordance with the appropriate records schedule, DOI records policy and NARA guidelines.

F. Briefly describe privacy risks and how information handling practices at each stage of the “information lifecycle” (i.e., collection, use, retention, processing, disclosure and destruction) affect individual privacy.

Following established guidance from NIST 800-53 and DOI Standards, technical and physical access controls exist to limit data and system permissions to only authorized individuals to conduct official business. There is minimal privacy risk to the employees related to user access information contained in AD and Hydromet. The PII contained in AD and Hydromet includes employee name, work email address, work phone number, duty station address, and official title. This information is not considered sensitive. Sensitive information related to individuals in this system is limited to username and password and is used to access Hydromet for security purposes. Users submit a HEAT



Service Catalog Hydromet/Oracle Account request form which upon supervisor approval is digitally routed to the system administrator. Usernames are used solely for system access and security auditing. Audit trails are maintained to reconstruct security relevant events. Hydromet utilizes the OpenVMS operating system and as such, cannot use EAD accounts. Personnel access Hydromet from their BOR-domain joined computer system which requires them to log on with EAD credentials. Once logged on, a separate account is utilized to access Hydromet. Hydromet accounts include usernames and passwords.

MB RSAMS has undergone a formal Assessment and Authorization and has been granted an authority to operate in accordance with the Federal Information Security Modernization Act of 2014 (FISMA) and National Institute of Standards and Technology (NIST) standards. The MB RSAMS is rated as a moderate system based upon the type of data and it requires strict security and privacy controls to protect the confidentiality, integrity, and availability of the sensitive information contained in the system related to water resource management.

MB RSAMS has developed a System Security and Privacy Plan based on NIST guidance and is part of a Continuous Monitoring program that includes ongoing security control assessments to ensure adequate security controls are implemented and assessed in compliance with policy and standards. Additionally, vulnerability scans are routinely conducted on the MB RSAMS to identify and mitigate any vulnerabilities found. Security and privacy awareness training is required for all Reclamation employees and information system users (including managers and senior executives) before authorizing access to the system, when required by system changes, and at least annually thereafter, and sign the DOI Rules of Behavior. Security role-based and Privacy role-based training is also required for security personnel and officials with special roles and privileges. Reclamation complies with NIST and other Federal requirements for data security as part of a formal program of assessment and authorization, and continuous monitoring. Monthly scans of the network are performed to ensure that changes do not occur that would create an exposure or weakness in the security configuration of MB RSAMS. The use of Reclamation IT systems, including MB RSAMS, is conducted in accordance with the appropriate DOI use policy. IT systems maintain an audit trail of activity to reconstruct security relevant events. The audit trail will include the identity of each entity accessing the system; time and date of access (including activities performed using a system administrator's identification); and activities that could modify, bypass, or negate the system's security controls. Audit logs are reviewed on a regular basis and any suspected attempts of unauthorized access or scanning of the system are immediately reported to IT Security.

The system follows the least privilege security principle, such that only the least amount of access is given to a user to complete their required activity. All access is controlled by authentication methods to validate the authorized user.



Section 4. PIA Risk Review

A. Is the use of the data both relevant and necessary to the purpose for which the system is being designed?

Yes: User information is required for user access control and management to protect the DOI network and information systems.

No

B. Does this system or electronic collection derive new data or create previously unavailable data about an individual through data aggregation?

Yes: *Explain what risks are introduced by this data aggregation and how these risks will be mitigated.*

No

C. Will the new data be placed in the individual's record?

Yes: *Explanation*

No

D. Can the system make determinations about individuals that would not be possible without the new data?

Yes: *Explanation*

No

E. How will the new data be verified for relevance and accuracy?

Not applicable as MB RSAMS and the Hydromet system do not generate new data.

F. Are the data or the processes being consolidated?

Yes, data is being consolidated. *Describe the controls that are in place to protect the data from unauthorized access or use.*

Yes, processes are being consolidated. *Describe the controls that are in place to protect the data from unauthorized access or use.*



No, data or processes are not being consolidated.

G. Who will have access to data in the system or electronic collection? Indicate all that apply.

- Users
- Contractors
- Developers
- System Administrator
- Other: The System Administrator has access to the local accounts (usernames) and access to the audit logs. The ISSO has access to the audit logs and local account lists.

H. How is user access to data determined? Will users have access to all data or will access be restricted?

Contract assessors or auditors, System Administrators, and approved role-based users (IT System Security Officers, IT Supervisors or Managers) are granted access in accordance with mission function. MB RSAMS uses the principle of least privilege access for authorized users to perform duties. Federal government information is managed and safeguarded by following FISMA, NIST guidelines, and DOI security and privacy policies.

I. Are contractors involved with the design and/or development of the system, or will they be involved with the maintenance of the system?

- Yes. *Were Privacy Act contract clauses included in their contracts and other regulatory measures addressed?*
- No

J. Is the system using technologies in ways that the DOI has not previously employed (e.g., monitoring software, SmartCards or Caller ID)?

- Yes. *Explanation*
- No

K. Will this system provide the capability to identify, locate and monitor individuals?

- Yes. All user activity is audited as part of the security monitoring and management of user accounts. Usernames can be associated with any of the following events in the



audit logs: account management events, object access, privilege functions, process tracking, system events, all administrator activity, authentication checks, authorization checks, data deletions, data access, data changes, and permission changes.

No

L. What kinds of information are collected as a function of the monitoring of individuals?

The auditing of user activity includes, but is not limited to, successful and unsuccessful account logon events, username, date/time, account management events, object access, policy change, privilege functions, process tracking, and system events.

M. What controls will be used to prevent unauthorized monitoring?

Reclamation complies with NIST and other Federal requirements for data security as part of a formal program of assessment and authorization, and continuous monitoring. Monthly scans of the network or system are performed to ensure that changes do not occur that would create an exposure or weakness in the security configuration. The use of DOI and Reclamation IT systems, including the MB RSAMS, is conducted in accordance with the appropriate DOI and Reclamation use policy.

IT systems maintain an audit trail of activity sufficient to reconstruct security relevant events. The audit trail includes the identity of each entity accessing the system; time and date of access (including activities performed using a system administrator's identification); and activities that could modify, bypass, or negate the system's security controls. Audit logs are reviewed on a regular basis and any suspected attempts of unauthorized access or scanning of the system are reported immediately to IT Security.

Only authorized users with system administrator privileges have access to monitor user's activities in the system. MB RSAMS implements the NIST 800-53 security controls and DOI security and privacy control standards for user access based on least privilege, ensuring that only authorized individuals have access to the system.

N. How will the PII be secured?

(1) Physical Controls. Indicate all that apply.

- Security Guards
- Key Guards
- Locked File Cabinets
- Secured Facility



- Closed Circuit Television
- Cipher Locks
- Identification Badges
- Safes
- Combination Locks
- Locked Offices
- Other. *Describe*

(2) Technical Controls. Indicate all that apply.

- Password
- Firewall
- Encryption
- User Identification
- Biometrics
- Intrusion Detection System (IDS)
- Virtual Private Network (VPN)
- Public Key Infrastructure (PKI) Certificates
- Personal Identity Verification (PIV) Card
- Other. Passwords along with a time-based 6-digit PIN provided by email or the Microsoft Authenticator app and a valid username (identification) are required to log in to the Hydromet system, McAfee provides Data-At-Rest encryption for Windows based workstations.

(3) Administrative Controls. Indicate all that apply.

- Periodic Security Audits
- Backups Secured Off-site
- Rules of Behavior
- Role-Based Training
- Regular Monitoring of Users' Security Practices
- Methods to Ensure Only Authorized Personnel Have Access to PII
- Encryption of Backups Containing Sensitive Data
- Mandatory Security, Privacy and Records Management Training
- Other. These appliances are in secure data centers with physical and logical safeguards to protect the data. There are open POA&Ms in place where controls lack full implementation. For example: (CM-06) Configuration settings for Hydromet components (hardware/OS) do not meet BOR requirements for the most restrictive mode consistent with operational requirements. This includes configuration of (IA-2(2)) Multi-Factor Authentication (MFA) as the existing authentication, while dual factor, lacks (AC-2) Centralized Administration, and certain operating systems are unable to implement (SC-28) Data-at-Rest (DAR) until modernization efforts currently underway are completed.



O. Who will be responsible for protecting the privacy rights of the public and employees? This includes officials responsible for addressing Privacy Act complaints and requests for redress or amendment of records.

The MB Regional Director serves as the MB RSAMS Information System Owner and the official responsible for oversight and management of the MB RSAMS security and privacy controls. The DOI Information System Owner for EAD, the Logical Security Files Privacy Act System Manager, the Information System Owner and Information System Security Officer, in collaboration with the Regional Privacy Officer and the Reclamation Associate Privacy Officer, are responsible for ensuring adequate safeguards are implemented to protect individual privacy at the appropriate levels in compliance with Federal laws and policies, and for addressing Privacy Act requests and complaints in consultation with DOI Privacy Officials. Program officials and users are responsible for protecting PII within their area of responsibility and meeting requirements under the Privacy Act and Federal law and policy.

P. Who is responsible for assuring proper use of the data and for reporting the loss, compromise, unauthorized disclosure, or unauthorized access of privacy protected information?

The MB RSAMS Information System Owner is responsible for oversight and management of the MB RSAMS security and privacy controls, and for ensuring to the greatest possible extent that the data is properly managed and that all access to the data has been granted in a secure and auditable manner. The Information System Owner and EAD Information System Owner are responsible for reporting any loss, compromise, unauthorized access, or disclosure of PII to DOI-CIRC within one hour of discovery in accordance with Federal policy and established procedures and appropriate remedial activities are taken to mitigate any impact to individuals, in coordination with Reclamation's Associate Privacy Officer. Program officials and users are responsible for reporting any compromise of PII in accordance with Federal and DOI policy.