

**U.S. Department of Commerce
U.S. Patent and Trademark Office**



**Privacy Impact Assessment
for the
Adobe Experience Manager- Managed Services (AEM-MS)**

Reviewed by: Henry J. Holcombe, Bureau Chief Privacy Officer

- ☒ Concurrence of Senior Agency Official for Privacy/DOC Chief Privacy Officer
☐ Non-concurrence of Senior Agency Official for Privacy/DOC Chief Privacy Officer

Signature of Senior Agency Official for Privacy/DOC Chief Privacy Officer

Date

U.S. Department of Commerce Privacy Impact Assessment USPTO Adobe Experience Manager- Managed Services (AEM-MS)

Unique Project Identifier: EIPL-DS-10-00

Introduction: System Description

Provide a brief description of the information system.

Adobe Experience Manager-Managed Services (AEM-MS) is a general support enterprise service for signatures. The service provides a verifiable digital Trademark certificate to the user that they can access by clicking on the certificate details. The system is deployed as a Software as a Service (SaaS) platform with Adobe Corporation managing and maintaining infrastructure and software. The information within the system is encrypted to address security and privacy concerns. USPTO is responsible for Hardware Security Manager (HSM), which is hosted on premises and managed by the USPTO Public Key Infrastructure (PKI) team.

Address the following elements:

(a) Whether it is a general support system, major application, or other type of system

AEM-MS is a general support system (GSS).

(b) System location

AEM-MS is a SaaS system hosted in the Amazon Web Services (AWS) cloud, which is Federal Risk and Authorization Management (FedRAMP) Certified. There is a Hardware Security Module deployed on-premise at the USPTO Alexandria, Virginia Data center.

(c) Whether it is a standalone system or interconnects with other systems (identifying and describing any other systems to which it interconnects)

AEM-MS is interconnected to:

Patent End to End (PE2E) - provides examination tools for Central examination unit to track and manage the cases in this group and view documents in text format.

Patent Capture and Application Processing System – Capture and Initial Processing (PCAPS-IP) – provides support to the USPTO for the purposes of capturing patent applications and related metadata in electronic form; processing applications electronically; reporting patent application processing and prosecution status; and retrieving and displaying patent applications.

Patent Business and Content Management Services (PBCMS) EventHub (EventHub) – provides file transformation functionality for the USPTO enterprise.

Trademark External (TM External) – comprised of different search components: TM External Filing (EFile), Trademark Status & Document Retrieval Services (TSDR), Trademark Last Updated Service (TM-LUS), TrademarkVision (TMVision), TM Pre-Examinations Automated Batch Search (TM-PEA-ABS), and Trademark Electronic Official Gazette (TM-EOG).

(d) The way the system operates to achieve the purpose(s) identified in Section 4

AEM-MS is a general support service for signatures. The service provides a verifiable digital Trademark certificate to the user that they can access by clicking on the certificate details. The system is deployed as a SaaS platform with Adobe Corporation managing and maintaining infrastructure and software. The information within the system is encrypted to address security and privacy concerns. USPTO is responsible for Hardware Security Manager (HSM), which is hosted on premises and managed by the USPTO Public Key Infrastructure (PKI) team.

The integrated applications submit a document requiring signature. The system accepts the document (through Hyper Text Transfer Protocol Secure (HTTPS) Representational State Transfer (REST) based Application Programming Interfaces (APIs)) and based on the configurations and authorization the system signs the document based on the credentials that are stored in the Hardware Security Module.

(e) How information in the system is retrieved by the user

Users do not have access to the system. Users are not able to access any information from the system. All interactions are system to system over TLS 1.2 or higher. Only the administrators have access to system configurations.

(f) How information is transmitted to and from the system

All communication is between systems and/or administrative console. All communication is encrypted over TLS 1.2 higher using HTTPS protocols.

(g) Any information sharing

The system does not share any information with other systems.

(h) The specific programmatic authorities (statutes or Executive Orders) for collecting, maintaining, using, and disseminating the information

E-Government Act (Pub. L. 107-347), GPEA (44 USC 3504), GPRA (5 USC 306, 31 USC 1115 et seq), E-Sign (15 USC Chapter 96), OMB A-130, EO 13719, Establishment of the Federal Privacy Council (2016).

(i) The Federal Information Processing Standards (FIPS) 199 security impact category for the

system
Moderate.

Section 1: Status of the Information System

1.1 Indicate whether the information system is a new or existing system.

☒ This is a new information system.

☐ This is an existing information system with changes that create new privacy risks. *(Check all that apply.)*

Changes That Create New Privacy Risks (CTCNPR)					
a. Conversions	☐	d. Significant Merging	☐	g. New Interagency Uses	☐
b. Anonymous to Non-Anonymous	☐	e. New Public Access	☐	h. Internal Flow or Collection	☐
c. Significant System Management Changes	☐	f. Commercial Sources	☐	i. Alteration in Character of Data	☐
j. Other changes that create new privacy risks (specify):					

☐ This is an existing information system in which changes do not create new privacy risks, and there is not a SAOP approved Privacy Impact Assessment.

☐ This is an existing information system in which changes do not create new privacy risks, and there is a SAOP approved Privacy Impact Assessment.

Section 2: Information in the System

2.1 Indicate what personally identifiable information (PII)/business identifiable information (BII) is collected, maintained, or disseminated. *(Check all that apply.)*

Identifying Numbers (IN)					
a. Social Security*	☐	f. Driver's License	☐	j. Financial Account	☐
b. Taxpayer ID	☐	g. Passport	☐	k. Financial Transaction	☐
c. Employer ID	☐	h. Alien Registration	☐	l. Vehicle Identifier	☐
d. Employee ID	☐	i. Credit Card	☐	m. Medical Record	☐
e. File/Case ID	☒				
n. Other identifying numbers (specify): customer numbers, private case ID, Patent Center (EFS-WEB) number, Confirmation number, application numbers, docket numbers for EFS Web.					
*Explanation for the business need to collect, maintain, or disseminate the Social Security number, including truncated form:					

General Personal Data (GPD)					
a. Name	☒	h. Date of Birth	☐	o. Financial Information	☐
b. Maiden Name	☐	i. Place of Birth	☐	p. Medical Information	☐
c. Alias	☐	j. Home Address	☐	q. Military Service	☐
d. Gender	☐	k. Telephone Number	☐	r. Criminal Record	☐
e. Age	☐	l. Email Address	☐	s. Marital Status	☐
f. Race/Ethnicity	☐	m. Education	☐	t. Mother's Maiden Name	☐
g. Citizenship	☐	n. Religion	☐		
u. Other general personal data (specify): Country of domicile					

Work-Related Data (WRD)					
a. Occupation	☒	e. Work Email Address	☒	i. Business Associates	☒
b. Job Title	☐	f. Salary	☐	j. Proprietary or Business Information	☒
c. Work Address	☒	g. Work History	☐	k. Procurement/contracting records	☐
d. Work Telephone Number	☒	h. Employment Performance Ratings or other Performance Information	☐		
l. Other work-related data (specify): Organization name when applicant is an entity.					

Distinguishing Features/Biometrics (DFB)					
a. Fingerprints	☐	f. Scars, Marks, Tattoos	☐	k. Signatures	☐
b. Palm Prints	☐	g. Hair Color	☐	l. Vascular Scans	☐
c. Voice/Audio Recording	☐	h. Eye Color	☐	m. DNA Sample or Profile	☐
d. Video Recording	☐	i. Height	☐	n. Retina/Iris Scans	☐
e. Photographs	☐	j. Weight	☐	o. Dental Profile	☐
p. Other distinguishing features/biometrics (specify): Only digital signatures, no ink based signatures will be used.					

System Administration/Audit Data (SAAD)					
a. User ID	☐	c. Date/Time of Access	☒	e. ID Files Accessed	☐
b. IP Address	☒	f. Queries Run	☐	f. Contents of Files	☒
g. Other system administration/audit data (specify): Service accounts are the accounts that will execute the request for signature.					

Other Information (specify)					

2.2 Indicate sources of the PII/BII in the system. *(Check all that apply.)*

Directly from Individual about Whom the Information Pertains					
In Person	☐	Hard Copy: Mail/Fax	☐	Online	☐
Telephone	☐	Email	☐		
Other(specify):					

Government Sources					
Within the Bureau	☒	Other DOC Bureaus	☐	Other Federal Agencies	☐
State, Local, Tribal	☐	Foreign	☐		
Other(specify):					

Non-government Sources					
Public Organizations	☐	Private Sector	☐	Commercial Data Brokers	☐
Third Party Website or Application			☐		
Other(specify):					

2.3 Describe how the accuracy of the information in the system is ensured.

The system is secured using appropriate administrative physical and technical safeguards in accordance with the National Institute of Standards and Technology (NIST) security controls (encryption, access control, and auditing), encryption as rest and in transit. Mandatory IT awareness and training are required for staff who have access to the system and address how to handle, retain, and dispose of data. All access has role-based restrictions and individuals with privileges have undergone vetting and suitability screening. The USPTO maintains an audit trail and performs random, periodic reviews (quarterly) to identify unauthorized access and changes as part of verifying the integrity of administrative account holder data and roles. Inactive accounts will be deactivated and roles will be deleted from the application.
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2.4 Is the information covered by the Paperwork Reduction Act?

☐	Yes, the information is covered by the Paperwork Reduction Act. Provide the OMB control number and the agency number for the collection.
☒	No, the information is not covered by the Paperwork Reduction Act.

2.5 Indicate the technologies used that contain PII/BII in ways that have not been previously deployed. *(Check all that apply.)*

Technologies Used Containing PII/BII Not Previously Deployed (TUCPBNPD)			
Smart Cards	☐	Biometrics	☐
Caller-ID	☐	Personal Identity Verification (PIV) Cards	☐
Other(specify):			

☒	There are not any technologies used that contain PII/BII in ways that have not been previously deployed.
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Section 3: System Supported Activities

3.1 Indicate IT system supported activities which raise privacy risks/concerns. *(Check all that apply.)*

Activities			
Audio recordings	☐	Building entry readers	☐
Video surveillance	☐	Electronic purchase transactions	☐
Other(specify): Click or tap here to enter text.			

☒	There are not any IT system supported activities which raise privacy risks/concerns.
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Section 4: Purpose of the System

4.1 Indicate why the PII/BII in the IT system is being collected, maintained, or disseminated. *(Check all that apply.)*

Purpose			
For a Computer Matching Program	☐	For administering human resources programs	☐
For administrative matters	☒	To promote information sharing initiatives	☐
For litigation	☒	For criminal law enforcement activities	☐
For civil enforcement activities	☐	For intelligence activities	☐
To improve Federal services online	☒	For employee or customer satisfaction	☒
For web measurement and customization technologies (single-session)	☐	For web measurement and customization technologies (multi-session)	☐
Other(specify):			

Section 5: Use of the Information

- 5.1 In the context of functional areas (business processes, missions, operations, etc.) supported by the IT system, describe how the PII/BII that is collected, maintained, or disseminated will be used. Indicate if the PII/BII identified in Section 2.1 of this document is in reference to a federal employee/contractor, member of the public, foreign national, visitor or other (specify).

This PII and BII data is collected by the USPTO to apply a digital signature to facilitate granting certificates. AEM-MS does not store any data. After receiving and processing data, it is directly transmitted back to the originating system. The PII in Section 2.1 is about DOC employees and members of the public.

- 5.2 Describe any potential threats to privacy, such as insider threat, as a result of the bureau's/operating unit's use of the information, and controls that the bureau/operating unit has put into place to ensure that the information is handled, retained, and disposed appropriately. (For example: mandatory training for system users regarding appropriate handling of information, automatic purging of information in accordance with the retention schedule, etc.)

In the event of computer failure, insider threats, or attack against the system by adversarial or foreign entities, no PII/BII information can be exposed. Also, system users undergo annual mandatory training regarding appropriate handling of information.

NIST security controls are in place to ensure that information is handled, retained, and disposed of appropriately. For example, advanced encryption is used to secure the data both during transmission and while stored at rest. All offices adhere to the USPTO Records Management Office's Comprehensive Records Schedule or the General Records Schedule and the corresponding disposition authorities or citations.

Section 6: Information Sharing and Access

- 6.1 Indicate with whom the bureau intends to share the PII/BII in the IT system and how the PII/BII will be shared. (*Check all that apply.*)

Recipient	How Information will be Shared		
	Case-by-Case	Bulk Transfer	Direct Access
Within the bureau	☒	☐	☒
DOC bureaus	☐	☐	☐
Federal agencies	☐	☐	☐
State, local, tribal gov't agencies	☐	☐	☐
Public	☐	☐	☐

Private sector	☐	☐	☐
Foreign governments	☐	☐	☐
Foreign entities	☐	☐	☐
Other(specify):	☐	☐	☐

☐	The PII/BII in the system will not be shared.
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6.2 Does the DOC bureau/operating unit place a limitation on re-dissemination of PII/BII shared with external agencies/entities?

☐	Yes, the external agency/entity is required to verify with the DOC bureau/operating unit before re-dissemination of PII/BII.
☐	No, the external agency/entity is not required to verify with the DOC bureau/operating unit before re-dissemination of PII/BII.
☒	No, the bureau/operating unit does not share PII/BII with external agencies/entities.

6.3 Indicate whether the IT system connects with or receives information from any other IT systems authorized to process PII and/or BII.

☒	Yes, this IT system connects with or receives information from another IT system(s) authorized to process PII and/or BII. Provide the name of the IT system and describe the technical controls which prevent PII/BII leakage: Current systems integrated with AEM-MS are: EventHub PCAPS-IP PE2E NIST security controls are in place to ensure that information is handled, retained, and disposed of appropriately. For example, advanced encryption is used to secure the data both during transmission and while stored at rest. All offices of the USPTO adhere to the USPTO Records Management Office's Comprehensive Records Schedule that describes the types of USPTO records and their corresponding disposition authority or citation
☐	No, this IT system does not connect with or receive information from another IT system(s) authorized to process PII and/or BII.

6.4 Identify the class of users who will have access to the IT system and the PII/BII. (*Check all that apply.*)

Class of Users			
General Public	☐	Government Employees	☒
Contractors	☒		
Other(specify):			

Users with elevated privilege have access to the configuration console. System does not collect PII/BII information.

Section 7: Notice and Consent

7.1 Indicate whether individuals will be notified if their PII/BII is collected, maintained, or disseminated by the system. *(Check all that apply.)*

☒	Yes, notice is provided pursuant to a system of records notice published in the Federal Register and discussed in Section 9.	
☒	Yes, notice is provided by a Privacy Act statement and/or privacy policy. The Privacy Act statement and/or privacy policy can be found at: https://www.uspto.gov/privacy-policy	
☐	Yes, notice is provided by other means.	Specify how:
☒	No, notice is not provided.	Specify why not: NO PII /BII information is collected. Only system to system communication is supported.

7.2 Indicate whether and how individuals have an opportunity to decline to provide PII/BII.

☒	Yes, individuals have an opportunity to decline to provide PII/BII.	Specify how: Source System
☒	No, individuals do not have an opportunity to decline to provide PII/BII.	Specify why not: NO PII/BII information is collected. Only system to system communication is supported.

7.3 Indicate whether and how individuals have an opportunity to consent to particular uses of their PII/BII.

☐	Yes, individuals have an opportunity to consent to particular uses of their PII/BII.	Specify how:
☒	No, individuals do not have an opportunity to consent to particular uses of their PII/BII.	Specify why not: NO PII/BII information is collected. Only system to system communication is supported.

7.4 Indicate whether and how individuals have an opportunity to review/update PII/BII pertaining to them.

☐	Yes, individuals have an opportunity to review/update PII/BII pertaining to them.	Specify how:
☒	No, individuals do not have an opportunity to review/update PII/BII pertaining to them.	Specify why not: NO PII/BII information is collected. Only system to system communication is supported.

Section 8: Administrative and Technological Controls

8.1 Indicate the administrative and technological controls for the system. *(Check all that apply.)*

☒	All users signed a confidentiality agreement or non-disclosure agreement.
☒	All users are subject to a Code of Conduct that includes the requirement for confidentiality.
☒	Staff(employees and contractors) received training on privacy and confidentiality policies and practices.
☒	Access to the PII/BII is restricted to authorized personnel only.
☒	Access to the PII/BII is being monitored, tracked, or recorded. Explanation: Audit logs
☒	The information is secured in accordance with the Federal Information Security Modernization Act (FISMA) requirements. Provide date of most recent Assessment and Authorization (A&A): ☒ This is a new system. The A&A date will be provided when the A&A package is approved.
☒	The Federal Information Processing Standard (FIPS) 199 security impact category for this system is a moderate or higher.
☒	NIST Special Publication (SP) 800-122 and NIST SP 800-53 Revision 4 Appendix J recommended security controls for protecting PII/BII are in place and functioning as intended; or have an approved Plan of Action and Milestones (POA&M).
☒	A security assessment report has been reviewed for the information system and it has been determined that there are no additional privacy risks.
☒	Contractors that have access to the system are subject to information security provisions in their contracts required by DOC policy.
☒	Contracts with customers establish DOC ownership rights over data including PII/BII.
☐	Acceptance of liability for exposure of PII/BII is clearly defined in agreements with customers.
☐	Other (specify):

8.2 Provide a general description of the technologies used to protect PII/BII on the IT system. *(Include data encryption in transit and/or at rest, if applicable).*

There are no PII/BII within the system. The SSPP specifically addresses the management, operational, and technical controls that are in place and planned during the operation of the system. The system maintains an audit trail and the appropriate personnel is alerted when there is suspicious activity. Data is encrypted in transit and at rest.

Section 9: Privacy Act

9.1 Is the PII/BII searchable by a personal identifier (e.g, name or Social Security number)?

- ☒ Yes, the PII/BII is searchable by a personal identifier.
- ☐ No, the PII/BII is not searchable by a personal identifier.

- 9.2 Indicate whether a system of records is being created under the Privacy Act, 5 U.S.C. § 552a. *(A new system of records notice (SORN) is required if the system is not covered by an existing SORN).*

As per the Privacy Act of 1974, “the term ‘system of records’ means a group of any records under the control of any agency from which information is retrieved by the name of the individual or by some identifying number, symbol, or other identifying particular assigned to the individual.”

☒	Yes, this system is covered by an existing system of records notice (SORN). Provide the SORN name, number, and link. <i>(list all that apply):</i> COMMERCE/PAT-TM-17 , USPTO Security Access Control and Certificate Systems COMMERCE/PAT-TM-16 , USPTO PKI Registration and Maintenance System
☐	Yes, a SORN has been submitted to the Department for approval on <u>(date)</u> .
☐	No, this system is not a system of records and a SORN is not applicable.

Section 10: Retention of Information

- 10.1 Indicate whether these records are covered by an approved records control schedule and monitored for compliance. *(Check all that apply.)*

☒	There is an approved record controls schedule. Provide the name of the record controls schedule: N1-241-10-1-10.3 (Patent Administrative Feeder Records)
☐	No, there is not an approved record controls schedule. Provide the stage in which the project is in developing and submitting a records control schedule:
☒	Yes, retention is monitored for compliance to the schedule.
☐	No, retention is not monitored for compliance to the schedule. Provide explanation: All audit/log records are transferred to Splunk. System follows Splunk/Organizational retention policies.

- 10.2 Indicate the disposal method of the PII/BII. *(Check all that apply.)*

Disposal			
Shredding	☐	Overwriting	☐
Degaussing	☐	Deleting	☒
Other (specify): No PII/BII Data collected/stored			

Section 11: NIST Special Publication 800-122 PII Confidentiality Impact Level

- 11.1 Indicate the potential impact that could result to the subject individuals and/or the organization if PII were inappropriately accessed, used, or disclosed. *(The PII*

Confidentiality Impact Level is not the same, and does not have to be the same, as the Federal Information Processing Standards (FIPS) 199 security impact category.)

☒	Low – the loss of confidentiality, integrity, or availability could be expected to have a limited adverse effect on organizational operations, organizational assets, or individuals.
☐	Moderate – the loss of confidentiality, integrity, or availability could be expected to have a serious adverse effect on organizational operations, organizational assets, or individuals.
☐	High – the loss of confidentiality, integrity, or availability could be expected to have a severe or catastrophic adverse effect on organizational operations, organizational assets, or individuals.

11.2 Indicate which factors were used to determine the above PII confidentiality impact level.
(Check all that apply.)

☒	Identifiability	Provide explanation: Name, Occupation, Work Email Address can be used to identify an individual.
☒	Quantity of PII	Provide explanation: Millions of data points
☒	Data Field Sensitivity	Provide explanation: Data fields include name, etc. which alone or in combination have little relevance outside the context.
☒	Context of Use	Provide explanation: The service provides a verifiable digital Trademark certificate to the user that they can access by clicking on the certificate details. The system is deployed as a Software as a Service (SaaS) platform with Adobe Corporation managing and maintaining infrastructure and software.
☒	Obligation to Protect Confidentiality	Provide explanation: USPTO Privacy Policy requires the PII information collected within the system to be protected in accordance with NIST SP 800-122, Guide to Protecting the Confidentiality of Personally Identifiable Information. In accordance with the Privacy Act of 1974, PII must be protected.
☒	Access to and Location of PII	Provide explanation: Adobe Corporation Cloud
☐	Other:	Provide explanation:

Section 12: Analysis

12.1 Identify and evaluate any potential threats to privacy that exist in light of the information collected or the sources from which the information is collected. Also, describe the choices that the bureau/operating unit made with regard to the type or quantity of information collected and the sources providing the information in order to prevent or mitigate threats to privacy. (For example: If a decision was made to collect less data, include a discussion of this decision; if it is necessary to obtain information from sources other than the individual, explain why.)

PII is collected and processed within this system. The PII in this system poses a risk if exposed. System users undergo annual mandatory training regarding appropriate handling of information. Physical access to servers is restricted to only a few authorized individuals. The servers storing the potential PII are located in a highly sensitive zone within the cloud and logical access is segregated with network firewalls and switches through an Access Control list that limits access to only a few approved and authorized accounts. USPTO monitors, in real-time, all activities and events within the servers storing the potential PII data and personnel review audit logs received on a regular bases and alert the appropriate personnel when inappropriate or unusual activity is identified.

12.2 Indicate whether the conduct of this PIA results in any required business process changes.

☐	Yes, the conduct of this PIA results in required business process changes. Explanation:
☒	No, the conduct of this PIA does not result in any required business process changes.

12.3 Indicate whether the conduct of this PIA results in any required technology changes.

☐	Yes, the conduct of this PIA results in required technology changes. Explanation:
☒	No, the conduct of this PIA does not result in any required technology changes.

Points of Contact and Signatures

System Owner Name: Jimmy Orona III Office: Enterprise Software Services Division Phone: (571) 272-0673 Email: Jimmy.Orona@uspto.gov I certify that this PIA is an accurate representation of the security controls in place to protect PII/BII processed on this IT system. Users, Orona, Jimmy III Digitally signed by Users, Orona, Jimmy III Date: 2022.11.16 17:37:42 -05'00' Signature: _____ Date signed: _____	Chief Information Security Officer Name: Don Watson Office: Office of the Chief Information Officer (OCIO) Phone: (571) 272-8130 Email: Don.Watson@uspto.gov I certify that this PIA is an accurate representation of the security controls in place to protect PII/BII processed on this IT system. Users, Watson, Don Digitally signed by Users, Watson, Don Date: 2022.11.17 16:27:46 -05'00' Signature: _____ Date signed: _____
Privacy Act Officer Name: Ezequiel Berdichevsky Office: Office of General Law (O/GL) Phone: (571) 270-1557 Email: Ezequiel.Berdichevsky@uspto.gov I certify that the appropriate authorities and SORNs (if applicable) are cited in this PIA. Users, Berdichevsky, Ezequiel Digitally signed by Users, Berdichevsky, Ezequiel Date: 2022.11.16 15:26:54 -05'00' Signature: _____ Date signed: _____	Bureau Chief Privacy Officer and Authorizing Official Name: Henry J. Holcombe Office: Office of the Chief Information Officer (OCIO) Phone: (571) 272-9400 Email: Jamie.Holcombe@uspto.gov I certify that the PII/BII processed in this IT system is necessary, this PIA ensures compliance with DOC policy to protect privacy, and the Bureau/OU Privacy Act Officer concurs with the SORNs and authorities cited. Users, Holcombe, Henry Digitally signed by Users, Holcombe, Henry Date: 2022.11.18 11:00:05 -05'00' Signature: _____ Date signed: _____
Co-Authorizing Official Name: N/A Office: N/A Phone: N/A Email: N/A I certify that this PIA accurately reflects the representations made to me herein by the System Owner, the Chief Information Security Officer, and the Chief Privacy Officer regarding security controls in place to protect PII/BII in this PIA. Signature: _____ Date signed: _____	

This page is for internal routing purposes and documentation of approvals. Upon final approval, this page must be removed prior to publication of the PIA.