

OFFICE OF INSPECTOR GENERAL

Catalyst for Improving the Environment

Special Report

Assessing EPA's Efforts to Protect Sensitive Information

Report No. 2006-S-00006

September 19, 2006

Report Contributors:

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Abbreviations

CIO	Chief Information Officer
DCI	Data Collection Instrument
ECIE	Executive Council on Integrity and Efficiency
EPA	U.S. Environmental Protection Agency
FAEC	Federal Audit Executive Council
IG	Inspector General
IT	Information Technology
NIST	National Institute of Standards and Technology
OMB	Office of Management and Budget
PAS	Privacy Act Statement
PCIE	President's Council on Integrity and Efficiency
PDA	Personal Digital Assistant
PII	Personally Identifiable Information
SP	Special Publication
VPN	Virtual Private Network



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF INSPECTOR GENERAL

September 19, 2006

MEMORANDUM

SUBJECT:	Assessing EPA's Efforts to Protect Sensitive Information Report No. 2006-S-00006
TO:	Charles Coe President's Council on Integrity and Efficiency

Attached is the U.S. Environmental Protection Agency Office of Inspector General's completed Data Collection Instrument, as prescribed by the President's Council on Integrity and Efficiency (PCIE) to use in meeting its requirements under Office of Management and Budget (OMB) Memorandum M-06-16, Protection of Sensitive Agency Information.

In accordance with the PCIE Federal Audit Executive Council reporting instructions, I am forwarding this report to you for consolidation with other Federal Agency OIG reports, and subsequent submission to the Director, OMB. Should you have any questions regarding this report, please contact Rudolph Brevard at (202) 566-0893 or <u>brevard.rudy@epa.gov</u>, or Cheryl Reid at (919) 541-2256 or <u>reid.cheryl@epa.gov</u>.

Sincerely,

Bill A. Roderick Acting Inspector General

This data collection instrument (DCI) was developed by the Federal Audit Executive Council (FAEC) Information Technology (IT) Committee of the President's Council on Integrity and Efficiency (PCIE)/Executive Council on Integrity and Efficiency (ECIE) to assist Inspectors General (IGs) in determining their Agency's compliance with Office of Management and Budget (OMB) Memorandum M-06-16. The data collection instrument contains three parts. The first part is based on a security checklist developed by the National Institute of Standards and Technology (NIST) (see Section 1 below). Questions in the DCI are designed to assess Agency requirements in the memorandum, which are linked to NIST Special Publication (SP) 800-53 and 800-53A. Each IG can use the associated checklist and the relevant validation techniques for their own unique operating environment. Section 2 is the additional actions required by OMB M-06-16. Section 3 should document your overall conclusion as well as detailed information regarding the type of work completed and the scope of work performed.

For each overall Step and Action Item, please respond **yes, no, partial, or not applicable**. For no, partial, and not applicable responses, please provide additional information in the comments sections. After the yes, no, partial, or not applicable response, IGs have the option to provide an overall response using the six control levels as defined below for the overall Step. Each condition for the lower level must be met to achieve a higher level of compliance and effectiveness. For example, for the control level to be defined as "Implemented", the Agency must also have policies and procedures in place. The determination of the control level for each Step should be based on the responses provided to the Action Items included in that Step.

Controls Not Yet in Place - The answer would be "Controls Not Yet in Place" if the Agency does not yet have documented policy for protecting personally identifiable information (PII).

Policy - The answer would be "Policy" if controls have been documented in Agency policy.

Procedures - The answer would be "Procedures" if controls have been documented in Agency procedures.

Implemented - The answer would be "Implemented" if the implementation of controls has been verified by examining procedures and related documentation and interviewing personnel to determine that procedures are implemented.

Monitor & Tested - The answer would be "Monitor & Tested" if documents have been examined and interviews conducted to verify that policies and procedures for the question are implemented and operating as intended.

Integrated - The answer would be "Integrated" if policies, procedures, implementation, and testing are continually monitored and improvements are made as a normal part of Agency business processes.

APPENDIX I: IG DATA COL	LECTION INSTRUMEN	т	
PLEASE PROVIDE YOUR RESPONSES USING THE D	ROP DOWN MENU	IN GRAY	
Section One			
Security Controls and Assessment Procedures			
Security Checklist For Personally Identifiable Information That Is To Be Transported			
and/ or Stored Offsite, Or That Is To Be Accessed Remotely	REQUIRED RESPONSE		RESPONSE
		Controls Not Yet in Pla	
	Yes	Policy	
	No	Procedures	
Procedure	Partial	Implemented	
	Not Applicable	Monitor & Tested	
		Integrated	
STEP 1: Has the Agency confirmed identification of personally identifiable information	Dortiol		
protection needs? If so, to what level? Action Item 1.1: Has the Agency verified information categorization to ensure identification of	Partial		
personal identifiable information requiring protection when accessed remotely or physically			
removed?	Partial		
Comments: Agency representatives stated during Phase I of the Personally Identifiable Information		an they reviewed 43 exis	tina
Systems of Records Notices to determine: 1) if the collection is still necessary, 2) if all the PII element			
unnecessarily that can be removed, and 4) if the routine uses are still relevant. The Agency has not			
Phase II in the Workgroup's Action Plan.	· ·	1	5
Action Item 1.2: Has the Agency verified existing risk assessments?	No		
Comments: The Agency has not yet established a baseline of all Agency systems that contain PII.			
OVERALL STEP 1 COMMENTS: The Agency has not yet identified all PII.			
	REQUIRED RESPONSE		RESPONSE
	Yes	Controls Not Yet in Pla	се
	No Partial	Policy Procedures	
Procedure	Not Applicable	Procedures	
STEP 2: Has the Agency verified the adequacy of organizational policy? If so, to what level?	Partial		
Action Item 2.1: Has the Agency identified existing organizational policy that addresses the			
information protection needs associated with personally identifiable information that is accessed			
remotely or physically removed?	Yes		
Comments: The Agency implemented an interim Policy for Protecting PII. The policy addresses implemented an interim Policy for Protecting PII.	plementing specific safegua	rds for protecting PII that	is
accessed remotely or physically removed.			

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APPENDIX I: IG DATA COL	LECTION INSTRUMEN	NT	
Action Item 2.2: Does the existing Agency organizational policy address the information protection needs associated with personally identifiable information that is accessed remotely or physically removed?	Partial		
	Yes		
1. For personally identifiable information physically removed:	Partial		
a. Does the policy explicitly identify the rules for determining whether physical			
terកែចារផ្តល់នេះទៅនេះថ្ងៃខាប់វ៉ែខាប់វ៉ែងble information that can be removed, does the policy			
require that information be encrypted and that appropriate procedures, training and accountability measures are in place to ensure that remote use of this			
and accountability measures are in place to ensure that remote use of this encrypted information does not result in bypassing the protection provided by	Yes	•	
ካድ ምዕና አብዛኛው በሚያስት መስከ የመስከ የመስከ የመስከ የመስከ የመስከ የመስከ የመስከ			
a. Does the policy explicitly identify the rules for determining whether remote	No		
-access is allowed?			
b. When remote access is allowed, does the policy require that this access be	Yes		
accomplished via a virtual private network (VPN) connection established using Agency-issued authentication certificate(s) or hardware tokens?		•	
c. When remote access is allowed, does the policy identify the rules for Comments: The Agency implemented an interim Policy for PII. This policy addresses specific safe	quards for protecting PII th	at is accessed remotely or physically	removed by employees.
However, this interim policy does not include tender only on the policy policy does opening and the policy does not include the policy does not policy be policy does not include the policy does not policy be poli	and accountability measure the policy does not addres.	es are in place, and 2) a VPN connects sencryption requirements for transpo	tion established using Agency- rting and/or remotely storing
Action Item 2.3: Has the organizational policy been revised or developed as needed, including steps 3 and 4?	Partial		
Comments: All PII data in electronic format taken offsite by an employee must be encrypted. The A transported to and stored at remote sites.	gency has not yet identified	d all instances where PII is being	
OVERALL STEP 2 COMMENTS: The Chief Information Officer's (CIO's) interim policy does n accountability measures, 2) using a VPN connection established using Agency-issued auther access of PII, and 3) encrypting backup media containing PII that is transported and/or stored	tication certificate(s) or I		

		Controls Not Yet in Place
	Yes	Policy
	No	Procedures
Procedure	Partial	Implemented
	Not Applicable	Monitor & Tested
		Integrated
	Partial	
STEP 3: Has the Agency implemented protections for personally identifiable information being transported and/or stored offsite? If so, to what level?		
Action Item 3.1: In the instance where personally identifiable information is transported to a remote		
site, have the NIST Special Publication 800-53 security controls ensuring that information is	Dawlial	
transported only in encrypted form been implemented?	Partial	
Comments: The CIO's interim policy states that all PII data in electronic format taken offsite by an em to Frankertion and diversity of the statement of the langer of the statement of the statement of the statement	ployee must be encryp andards 140-2. The Ad	ted. All encryption technologie
Comments: The CIO's interim policy states that all PII data in electronic format taken offsite by an em to trainsport and work of PII offstermust be valued according of the Federal Internation Planning St instances when backup media that contain PII is being transported to remote sites and whether transp Action Item 3.2: In the instance where PII is being stored at a remote site, have the NIST SP 800- 53 security controls ensuring that information is stored only in encrypted form been implemented?	tandards 140-2. The Ag	ency has not yet identified all
to Frankspion and wind off PN officient use for value and a constraint of the sector o	tandards 140-2. The Age portation methods use e No	gency has not yet identified all encryption.
tỗ ዥዝዙspört ልብሀላውፕሩ ውስ ምክን የተያናየም በዚያ የውስ አንድር የሚያስት የሚያስት ምድር በ የሚያስት ምድር በ የሚያስት የሚያስት የሚያስት የመንከ የ Instances when backup media that contain PII is being transported to remote sites and whether transp Action Item 3.2: In the instance where PII is being stored at a remote site, have the NIST SP 800-	tandards 140-2. The Age portation methods use e No	gency has not yet identified all encryption.
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ช้ โหล่ไรซูชัก" ลกป ไฟมัหรี ซีกี PN อัทรักษาที่ไปร์เรียงใจแชล์ไล่ย ซิยชิกซ์ที่ผู้ไป ซึกษ์ Federal Thifbithation Planning St instances when backup media that contain PII is being transported to remote sites and whether transp Action Item 3.2: In the instance where PII is being stored at a remote site, have the NIST SP 800- 53 security controls ensuring that information is stored only in encrypted form been implemented? Commenter: The Ageine for the instance of the mathematical fait instance of the mathematical fait is being encryption.	tandards 140-2. The Ag portation methods use e No ng stored at remote site	gency has not yet identified all encryption.

	REQUIRED RESPONSE		RESPONSE
		Controls Not Yet in	n Place
	Yes	Policy	
	No	Procedures	
Procedure	Partial	Implemented	
	Not Applicable	Monitor & Tested	
	N (-	Integrated	
STEP 4: Has the Agency implemented protections for remote access to personally dentifiable information? If so, to what level?	No		
Action Item 4.1: Have NIST Special Publication 800-53 security controls requiring authenticated, virtual private network (VPN) connection been implemented by the Agency?	No		
Comments: The Agency has several remote access methods. One method has a VPN and is used	mainly by external busines	s partners (nonempl	oyees) to access
EPA networks. However, the CIO's interim policy directs employees to use two specific remote accument of VPN application (s). * Evaluation could include a review of the configuration of VPN application(s). method.	ess methods, neither of whi	ch include the VPN r	remote access
Action Item 4.2: Have the NIST Special Publication 800-53 security controls enforcing allowed downloading of personally identifiable information been enforced by the Agency?	No		
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Comments: The Agency has not identified all PII. In addition, the interim Agency policy does not in policy does not include NIST SP 800-53 AC- 4 "Information Flow Enforcement" Control. This contro ລໍ ້ ແມ່ນອີກສາຍເຫັດ ເປັນເປັນເປັນເປັນເປັນເປັນ ເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນເປັນ	l requires that the informati	on system enforces a	example, the assigned
If remote storage of personally identifiable information is to be permitted follow			
Action Item 4.3, otherwise follow Action Item 4.4.			
Action Item 4.3, otherwise follow Action Item 4.4. Action Item 4.3: Have the NIST Special Publication 800-53 security controls enforcing encrypted re-	mote storage of personally	identifiable informatio	on been
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Action Item 4.3, otherwise follow Action Item 4.4. Action Item 4.3: Have the NIST Special Publication 800-53 security controls enforcing encrypted re- implemented by the Agency?	No		
Action Item 4.3, otherwise follow Action Item 4.4. Action Item 4.3: Have the NIST Special Publication 800-53 security controls enforcing encrypted re- implemented by the Agency? Comments: The Agency has not yet identified all instances of remotely stored PII. The Agency has	No		
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Section Two	
Additional Agency Actions Required by OMB M-06-16	
	Yes
	No
Procedure	Partial
	Not Applicable
1. Has the Agency encrypted all data on mobile computers/devices which carry Agency data unless	
the data is determined to be non-sensitive, in writing by Agency Deputy Secretary or an individual	
he/she may designate in writing?	No
Comments: The Agency does not encrypt all data on mobile computers/devices unless the data is de	termined to be non-
sensitive, in writing by the Deputy Administrator or designee. Instead, the CIO's interim policy require	
Officials (SIOs) to approve, in writing, employees who work on PII at offsite locations and that this PII	
Employees are prohibited from downloading and/or locally storing PII unless specifically authorized in	
authorized by the SIO to download and/or locally store PII, employees must save PII files in an encry	
establish procedures to document all approved downloads and/or local storage of PII and document p	roper encryption.
2. Does the Agency use remote access with two-factor authentication where one of the factors is	
provided by a device separate from the computer gaining access?	Partial
Comments: EPA's Remote Access Website identifies several forms of remote access. Two of the me	thods are described on
the website as (1) having two-factor authentication and (2) encrypting the entire remote access sessio	n.
3. Does the Agency use a "time-out" function for remote access and mobile devices requiring user	
 Does the Agency use a "time-out" function for remote access and mobile devices requiring user re-authentication after 30 minutes inactivity? 	Partial
re-authentication after 30 minutes inactivity? Comments: The Agency has several remote access methods. The Agency policy requires time-out se	ettings of 30 minutes for
re-authentication after 30 minutes inactivity? Comments: The Agency has several remote access methods. The Agency policy requires time-out so two of the remote access methods. The Agency's Chief Technology Officer has issued a memorandu	ettings of 30 minutes for m requiring Information
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re-authentication after 30 minutes inactivity? Comments: The Agency has several remote access methods. The Agency policy requires time-out so two of the remote access methods. The Agency's Chief Technology Officer has issued a memorandu. Resource Management Branch Chiefs, Information Security Officers, and Information Management O employees implement setting of Blackberry devices to time-out at 30 minutes or less. If employees un Blackberry, they must follow these same practices and enable their device's password protection cap	ettings of 30 minutes for m requiring Information fficers to help ilize a PDA other than a
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Section Three

To assist the PCIE/ECIE in evaluating the results provided by individual IGs and in creating the government-wide response, please provide the following information:

Type of work completed (i.e., assessment, evaluation, review, inspection, or audit).

OIG Response: Assessment - Due to the time constraints, the scope of our work involved focused interviews and examinations of documents. We plan to audit EPA's PII controls in FY 2007.

Scope and methodology of work completed based on the PCIE/ECIE review guide Step 2 page 4. (Please address the coverage of your assessment, and include any comments you deem pertinent to placing your results in the proper context.)

OIG Response: We conducted focused interviews with EPA's Security and Privacy Offices. We performed focused examinations of the 1) CIO's Interim Policy and Procedures for Protecting Personally Identifiable Information, 2) Office of Environmental Information Website describing remote access methods, 3) PII Workgroup Action Plan, 4) list of Systems of Records Notices, and 5) Agency memorandum on configuring Blackberry and PDA devices.

Assessment Methodologies Used to Complete the DCI Sections

p 1	Section One Step 2	Step 3		Section
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Overall Summary Statement. (Please refer to page five of the review guide for sample language for summary statements.)

Based on our assessment, we found that the Agency has taken the following steps to protect its sensitive personal information:

Created a PII Workgroup and three phase Action Plan.

• – During Phase I the workgroup reviewed the Agency's existing Systems of Records Notices to determine: (1) if the collection is still necessary, (2) if all the PII elements are required, (3) if there are PII elements being collected unnecessarily and can be removed, and (4) if the routine uses (i.e., disclosures to other parties) are still relevant.

- During Phase II the workgroup plans to: 1) establish Agency baseline of systems that contain PII by identifying all Agency systems that require Privacy Impact Assessments and determining if additional Systems of Records Notices are needed, 2) review Agency forms to determine if PII is collected; if any/all PII elements on the form are needed; ensure Privacy Act Statement (PAS) is present on form collecting PII and whether the PAS is adequate, 3) review final draft Privacy Policy to ensure PII concerns are adequately addressed and 4) determine the procedures required to fully implement the Privacy Policy.

- During Phase III the workgroup plans to: 1) identify critical training needs, 2) coordinate Security and Privacy Oversight Responsibilities/Activities, 3) address privacy in Agency contracts, and 4) submit report to the Administrator.

Issued CIO Policy Transmittal 06-011: Interim Policy and Procedures for Protecting Personally Identifiable Information (PII).

Updated the Standard Configuration Document for Blackberry Devices to Safeguard Information.

The Agency needs to improve in the following areas:

Identify all PII information.

• Ensure the policy includes specific requirements for 1) training and accountability measures, 2) using a VPN connection established using Agency-issued authentication certificate(s) or hardware tokens for all remote access of PII, and 3) encrypting PII that is transported and/or stored offsite.

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