GAO

Report to the Chairman, Committee on Finance, U.S. Senate

April 2007

IRS EMERGENCY PLANNING

Headquarters Plans Supported Response to 2006 Flooding, but Additional Guidance Could Improve All Hazard Preparedness





Highlights of GAO-07-579, a report to the Chairman, Committee on Finance, U.S. Senate

Why GAO Did This Study

On June 25, 2006, the Internal Revenue Service (IRS) headquarters building suffered flooding during a period of record rainfall and sustained extensive damage to its infrastructure. IRS officials ordered the closure of the building until December 2006 to allow for repairs to be completed. IRS headquarters officials reported activating several of the agency's emergency operations plans. Within 1 month of the flood, over 2,000 employees normally assigned to the headquarters building were relocated to other facilities throughout the Washington, D.C., metropolitan area.

GAO was asked to report on (1) how IRS emergency operations plans address federal guidance related to continuity planning and (2) the extent to which IRS emergency operations plans contributed to the actions taken by IRS officials in response to the flood. To address these objectives, GAO analyzed federal continuity guidance, reviewed IRS emergency plans, and interviewed IRS officials.

What GAO Recommends

GAO recommends that the Commissioner of Internal Revenue revise internal IRS guidance and emergency plans to fully reflect federal continuity guidance. The Commissioner agreed with our recommendations and stated that the agency will take the necessary steps to implement them and revise its emergency plans.

www.gao.gov/cgi-bin/getrpt?GAO-07-579.

To view the full product, including the scope and methodology, click on the link above. For more information, contact Bernice Steinhardt at (202) 512-6543 or steinhardtb@gao.gov.

IRS EMERGENCY PLANNING

Headquarters Plans Supported Response to 2006 Flooding, but Additional Guidance Could Improve All Hazard Preparedness

What GAO Found

The IRS headquarters emergency operations plans that GAO reviewed—the headquarters Continuity of Operations (COOP) plan, Incident Management Plan, and three selected business resumption plans—collectively addressed several of the general elements identified within federal continuity guidance for all executive branch departments and agencies (see table below). For example, the plans adequately identified the people needed to continue performing essential functions. However, other elements were not addressed or were addressed only in part. Specifically, IRS had two separate lists of essential functions—critical business processes and essential functions for IRS leadership—within its plans, but prioritized only one of the lists. Furthermore, although the COOP plan outlined provisions for tests, training, and exercises, none of the other plans GAO reviewed outlined the need to conduct such activities. While IRS provided overall guidance to its business units on their business resumption plans, the guidance was inconsistent with the federal guidance on several elements, including the preparation of resources and facilities needed to support essential functions and requirements for regular tests, training, and exercises.

The IRS Incident Management Plan was particularly useful in establishing clear lines of authority and communications in response to the flooding. Unit-level business resumption plans GAO reviewed contributed to a lesser extent, and the headquarters COOP plan was not activated because of conditions particular to the 2006 flood. Specifically, damage to the building was limited to the basement and subbasement levels, and employees were able to enter the building to retrieve equipment and assets. In addition, alternate work space was available for all employees within a relatively short period, reducing the importance of identifying critical personnel.

While its plans helped guide IRS's response to the conditions that resulted from the flood, in more severe emergency events, conditions could be less favorable to recovery. Consequently, unless IRS fills in gaps in its guidance and plans, it lacks assurance that the agency is adequately prepared to respond to the full range of potential disruptions.

Summary of General Elements Identified within Federal Continuity Guidance		
General element	Description of agency action	
Essential functions	Determine what agency-specific functions must be continued under all circumstances.	
People	Identify and designate the personnel critical to agency operations.	
Resources	Identify and plan for the availability of resources needed.	
Alternate facilities	Identify and prepare alternate facilities for critical personnel.	
Activation	Determine which continuity plans should be activated.	
Execution	Document procedures that guide emergency operations personnel.	
Resumption	Outline a plan to return or transition to normal operations.	
Tests, training, and exercises	Perform tests, training, and exercises of continuity plans.	

Source: GAO analysis of Federal Preparedness Circular 65.

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Abbreviations

CI Criminal Investigation COOP continuity of operations

FEMA Federal Emergency Management Agency

FPC Federal Preparedness Circular IRS Internal Revenue Service W&I Wage and Investment

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United States Government Accountability Office Washington, DC 20548

April 16, 2007

The Honorable Max Baucus Chairman Committee on Finance United States Senate

Dear Mr. Chairman:

In June 2006, the Internal Revenue Service (IRS) headquarters building, 1111 Constitution Avenue, NW, Washington, D.C., was flooded during a period of record rainfall. The building sustained extensive damage to its infrastructure, and critical parts of the building's electrical and mechanical equipment were destroyed or heavily damaged, requiring the headquarters building to be closed until December 2006 to allow for repairs.

In response to the flood and the closure of the building, IRS headquarters officials reported activating several of the agency's emergency operations plans. Over 2,000 employees normally assigned to the headquarters building were relocated to 15 locations throughout the Washington, D.C., metropolitan area in an effort to ensure the continuity of headquarters essential operations. The headquarters building was reopened on December 8, 2006.

The Federal Emergency Management Agency (FEMA) developed Federal Preparedness Circular (FPC) 65 to provide guidance to federal executive branch departments and agencies on developing contingency plans and programs to ensure that agencies can continue performing their essential government functions during any emergency or situation that may disrupt normal operations. All federal executive branch agencies are required to have such a capability in place to maintain essential government services across a wide range of all hazard emergencies.

To determine whether IRS emergency operations plans were adequate to continue effective operations following the flood, you asked us to evaluate (1) how IRS emergency operations plans address federal guidance related to continuity planning and (2) the extent to which IRS emergency operations plans contributed to the actions taken by IRS officials in response to the flood. At your request, we worked closely with the Treasury Inspector General for Tax Administration, who examined

information technology recovery efforts and the impact of the flood on tax administration.

To address our first objective, we obtained the IRS headquarters emergency operations plans that were available to agency officials at the time of the June 2006 flood. We analyzed FPC 65 continuity guidance and identified eight general elements related to developing a viable continuity capability. We reviewed emergency operations plans that were available at the time of the flood—including the IRS headquarters Continuity of Operations (COOP) plan, Incident Management Plan, and three selected business resumption plans¹—and analyzed how they collectively addressed or did not address these eight general elements of guidance.² We also reviewed IRS-defined criteria for emergency operations plans, including sections of the Internal Revenue Manual—which guides IRS officials in developing several of the agency's emergency operations plans—and an internal template provided by IRS's Office of Physical Security and Emergency Preparedness, which is responsible for agencywide emergency planning and policy, to guide plan development.

To address our second objective, we interviewed IRS officials responsible for the development, oversight, and implementation of the headquarters emergency operations plans. In our interviews, we asked IRS officials responsible for each emergency operations plan how their plans contributed to their actions following the flood, if at all. To supplement the information gained from the interviews, we reviewed agency documentation related to emergency operations activities following the flood, including IRS status reports, employee relocation lists, and emergency operations team meeting minutes. In addition, we reviewed documentation regarding lessons learned from the flood, provided by various headquarters business units, and obtained any updates or changes to emergency operations plans following the flood.

¹ Since each business unit within IRS headquarters has an individual plan for business resumption activities, we selected and examined 3 of 13 business resumption plans available for use during the flood from the three business units with the most employees affected by the flooding in the headquarters building. The three largest business units in the building are Criminal Investigation, Wage and Investment, and Chief Counsel. These business units collectively represent over 50 percent of the headquarters building employees.

² We did not obtain the Disaster Recovery Plan—a contingency plan for the recovery of information technology equipment—because recovery of information technology equipment was addressed in a report from the Treasury Inspector General for Tax Administration.

We conducted our review in accordance with generally accepted government auditing standards from July 2006 through March 2007. Detailed information on our objectives, scope, and methodology appears in appendix I.

Results in Brief

The IRS headquarters emergency operations plans we reviewed—the headquarters COOP plan, Incident Management Plan, and selected business resumption plans—collectively addressed several of the general elements of a viable continuity capability identified within FPC 65. For example, the plans adequately identified the people needed to continue performing essential functions. However, other elements were not addressed or were addressed only in part. Specifically, IRS had two separate lists of essential functions—critical business processes and essential functions for IRS leadership—within its plans, but prioritized only one of the lists. Furthermore, although the COOP plan outlined provisions for tests, training, and exercises, none of the three business resumption plans we reviewed or the Incident Management Plan outlined the need to conduct such activities. While IRS's Office of Physical Security and Emergency Preparedness provided overall guidance to business units on their business resumption plans, the guidance was inconsistent with the federal guidance on several elements, including the preparation of resources and facilities needed to support essential functions and requirements for regular tests, training, and exercises.

IRS officials largely relied upon the Incident Management Plan to direct their response to the emergency conditions created by the June 2006 flooding. This plan guided officials in establishing roles and responsibilities for command and control of the overall resumption effort and a capability for the procurement of alternate facility space and equipment. Business unit officials were initially guided by their business resumption plans, but later response activities differed from those plans because of the circumstances resulting from the flooding. According to IRS headquarters officials, the headquarters COOP plan was not activated because local space availability made movement of executive leadership to the alternate COOP facility unnecessary and the safety of the leadership was not at risk.

While IRS's plans helped guide its response to the flood, the conditions that prevailed then—space available to relocate all employees and the ability to retrieve equipment and assets—may not be present in other emergency events. Consequently, unless IRS fills in gaps in its guidance

and plans, it will lack assurance that the agency is adequately prepared to respond to the full range of potential disruptions.

We are recommending that the Commissioner of Internal Revenue (1) revise IRS internal emergency planning guidance to fully reflect federal guidance on the elements of a viable continuity capability, including the identification and prioritization of essential functions, the preparation of necessary resources and alternate facilities, and the regular completion of tests, training, and exercises of continuity capabilities, and (2) revise the IRS emergency plans in accordance with the new internal guidance. The Commissioner agreed with our recommendations and outlined steps the agency will take to improve its emergency plans and guidance.

Background

IRS administers America's tax laws and collects the revenues that fund government operations and public services. In fiscal year 2006, IRS collected more than \$2.5 trillion in revenue. IRS's Taxpayer Service and Enforcement programs generate more than 96 percent of the total federal revenue collected for the U.S. government. Total federal revenues have fluctuated from roughly 16 to 21 percent of gross domestic product between 1962 and 2004. Given the amount of federal revenue collected by IRS, a disruption of IRS operations could have great impact on the U.S. economy.

The IRS headquarters building is located in Washington, D.C., and houses over 2,200 of the agency's estimated 104,000 employees. The headquarters building contains the offices of IRS executive leaders, such as the Commissioner and deputy commissioners, and headquarters personnel for 14 of the agency's 17 individual business units.

Flood of IRS's Headquarters Building

On June 25, 2006, the IRS headquarters building suffered flooding during a period of record rainfall and sustained extensive damage to its infrastructure. The subbasement and basement were flooded, and critical parts of the facility's electrical and mechanical equipment were destroyed or heavily damaged. The subbasement—which contained equipment such as electrical transformers, electrical switchgears, and chillers—was

³ GAO, Financial Audit: IRS's Fiscal Years 2006 and 2005 Financial Statements, GAO-07-136 (Washington, D.C.: Nov. 9, 2006), and Understanding the Tax Reform Debate: Background, Criteria, and Questions, GAO-05-1009SP (Washington, D.C.: September 2005).

submerged in more than 20 feet of water. In addition, the basement level—which housed the building's fitness center, food service canteens, computer equipment, and the basement garage—was flooded with 5 feet of water. As a result of the flood damage, the building was closed until December 8, 2006. In response to the flood and the closure of the building, IRS headquarters officials reported activating several of the agency's emergency operations plans. Over 2,000 employees normally assigned to the headquarters building were relocated to other facilities throughout the Washington, D.C., metropolitan area.

Although the flood severely damaged the building and necessitated the relocation of IRS employees to alternate office space, particular circumstances limited potential damage and made response and recovery activities easier:

- No employees were injured, killed, or missing as a result of the flood.
- Damage was limited to the basement and subbasement levels, and employees were able to enter the building to retrieve equipment and assets 5 days following the flood.
- IRS and the General Services Administration were able to identify and allocate alternate work space to accommodate all displaced employees, not just those considered critical or essential.

According to IRS status reports following the flood, facility space was provided for critical personnel within 10 days and for all headquarters employees within 29 days. Table 1 provides a time line of activities following the flood.

Table 1: Time Line of Activities Following the Flood on June 25, 2006		
Date	Day	Activity
June 26, 2006	Day 1	Building closed. Employees notified to stay home.
June 28, 2006	Day 3	Meeting held with IRS business units. Voice mail reestablished. Process established for employees to retrieve equipment and assets from the building.
June 30, 2006	Day 5	Retrieval process for equipment and assets implemented.
July 3, 2006	Day 8	Computer servers reestablished at alternate locations.
July 5, 2006	Day 10	About 700 selected employees reported back to work at alternate office space throughout the Washington, D.C., metropolitan area.
July 7, 2006	Day 12	Other employees moved in phases.
July 24, 2006	Day 29	All employees reported back to work at alternate office space throughout the Washington, D.C., metropolitan area.
Dec. 8, 2006	Day 166	Employees began the return to the headquarters building.

Sources: IRS Senior Commissioner Representative status reports and IRS's news release regarding the flood.

The Treasury Inspector General for Tax Administration also reviewed the IRS response to the flooding. According to the Inspector General's reports, IRS adequately protected sensitive data and restored computer operations to all employees approximately 1 month following the flood. In addition, he reported that the flood caused no measurable impact on tax administration because of the nature of the work performed at this building and the contingency plans that IRS had in place. Finally, he reported that IRS paid \$4.2 million in salary costs for 101,000 hours of administrative leave granted to IRS personnel following the flooding. While \$3 million was paid for administrative leave during the first week following the flooding, the amount paid for administrative leave decreased in subsequent weeks.

⁴ Treasury Inspector General for Tax Administration, *The Internal Revenue Service Building Flood Caused No Measurable Impact on Tax Administration*, 2007-30-028 (Washington, D.C.: Feb. 7, 2007), and *The Internal Revenue Service Adequately Protected Sensitive Data and Restored Computer Operations After the Flooding of Its Headquarters Building*, 2007-20-023 (Washington, D.C.: Jan. 26, 2007).

⁵ Administrative leave is an excused absence from work with no loss of pay.

IRS Headquarters Emergency Operations Plans

IRS headquarters has multiple emergency operations plans that if activated, are intended to work in conjunction with each other during emergencies. These plans include a suite of business continuity plans comprised of, among others, a business resumption plan for each IRS business unit and an Incident Management Plan. In addition, IRS has a COOP plan for emergency events affecting IRS executive leadership and essential functions. Table 2 summarizes the IRS emergency operations plans and their purposes.

Table 2: IRS	Emergency	Operations	Plans and	Purnoses
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Emergency operations plan	Description
Business resumption plan	Guides the resumption of the unit's critical business functions and return to normal operations after an emergency.
	Each business unit within IRS is responsible for establishing its own business resumption plan.
Incident Management Plan	Provides a command and control structure to centrally coordinate and manage the agency's emergency response and recovery activities.
	Key activities include providing overall leadership, coordinating needs and priorities among business units, and securing the resources—such as office space and computers—necessary for business units to resume critical business functions.
COOP plan	Prepares for the potential relocation of IRS's executive leadership—including the Commissioner and deputy commissioners—to an alternate facility in order to perform IRS essential functions.

Source: GAO analysis of IRS emergency operations plans.

Federal Guidance for Continuity Planning

FEMA developed FPC 65 to provide guidance to federal executive branch departments and agencies in developing contingency plans and programs to ensure the continuity of essential agency operations. All federal executive branch agencies are required to have such a capability in place to maintain essential government services across a wide range of all hazard emergencies. This guidance defines the elements of a viable

⁶ This suite of plans also includes the Disaster Recovery Plan, a contingency plan for the recovery of information technology equipment, and an Occupant Emergency Plan, which outlines procedures for building occupants and emergency personnel in responding to threats that require building evacuations or shelter in place.

continuity capability for agencies to address in developing their continuity plans.

Table 3 summarizes eight general elements of federal continuity guidance that agency plans should address.

Table 3: Summary of FPC 65 Guidance Related to Ensuring Continuity of Essential Agency Operations

General element	Description of agency action
Essential functions	Determine what agency-specific functions must be continued under all circumstances and prioritize them based on criticality and time sensitivity. Consider those functions that must continue with minimal disruption or cannot be interrupted for more than 12 hours and must continue operating up to 30 days.
People	Identify and designate the personnel who would be critical to agency operations during an emergency, including staff directly responsible for relocating to an alternate location to perform agency essential functions.
Resources	Identify and plan for the availability of resources needed to perform agency essential functions during an emergency, including vital records, critical systems and data, and equipment.
Alternate facilities	Provide the capability for emergency operations personnel to continue performing agency essential functions from an alternate location by identifying and preparing alternate facilities.
Activation	Develop a decision process that guides officials in determining when and which continuity plans and procedures should be activated in response to an emergency.
Execution	Document procedures that guide emergency operations personnel in executing the agency's continuity plan.
Resumption	Identify and outline a plan to return or transition to normal operations.
Tests, training, and exercises	Perform tests, training, and exercises of continuity plans and procedures to ensure agency readiness for an emergency.

Source: GAO analysis of FPC 65.

IRS supplemented federal guidance with sections of its Internal Revenue Manual—a document outlining the agency's organization, policies, and procedures—related to business resumption plans. Similar to the federal continuity guidance, the Internal Revenue Manual outlined minimum

requirements for business resumption plans, including the need to identify people and resources to perform critical functions.

IRS Headquarters Emergency Operations Plans Partially Addressed Elements Outlined in Federal Guidance

The IRS headquarters emergency operations plans we reviewed collectively addressed several of the general elements of guidance identified in FPC 65. For example, the plans adequately identified the people needed to continue performing essential functions and had established procedures for activation. However, other elements were not addressed or were addressed only in part. Specifically, IRS identified two separate lists of essential functions—critical business processes and essential functions for IRS leadership—within its plans but only prioritized one of the lists. Furthermore, although the COOP plan outlined provisions for tests, training, and exercises, neither the business resumption plans we reviewed—from Criminal Investigation (CI), Wage and Investment (W&I), and Chief Counsel⁹—nor the Incident Management Plan outlined the need to conduct such activities. While IRS's Office of Physical Security and Emergency Preparedness provided overall guidance to business units on their business resumption plans, the guidance was inconsistent with the federal guidance on several elements, including the preparation of resources and facilities needed to support essential functions and requirements for regular tests, training, and exercises. Until IRS requires all of the plans that contribute to its ability to guickly resume essential functions to fully address federal guidance, it will lack assurance that it is adequately prepared to respond to the full range of potential disruptions.

Essential Functions

FPC 65 states that agencies are to determine what agency-specific functions must be continued under all circumstances and prioritize them based on the criticality and time sensitivity of each function.¹⁰ The resulting prioritized list of functions establishes the planning parameters

 $^{^{7}}$ CI investigates potential criminal violations of the Internal Revenue Code and related financial crimes.

 $^{^{8}}$ W&I provides IRS customers with information, support, and assistance in fulfilling tax obligations.

⁹ Chief Counsel advises the IRS Commissioner on all matters pertaining to the interpretation, administration, and enforcement of the Internal Revenue laws and provides legal guidance and interpretive advice to IRS, Treasury, and taxpayers.

¹⁰ FPC 65 defines essential functions as those functions that enable an organization to provide vital services, exercise civil authority, maintain the safety of the general public, and sustain the industrial/economic base during an emergency.

that drive the agency's efforts across all other planning topics. For example, the guidance directs agencies to identify alternate facilities, staff, and resources necessary to support continuation of essential functions. Therefore, the effectiveness of plans as a whole and the implementation of all other elements depend on the performance of this step. We previously reported on sound practices related to identifying and validating essential functions, including the need to prioritize essential functions and determine a recovery time objective for each function, establishing the maximum tolerable downtime for each. Such identification of time sensitivity is especially important during events that may result in constraints on facility space and resources, as it allows agency officials to prioritize the activities that are performed.

The IRS emergency operations plans we reviewed identified a number of essential functions but did not consistently prioritize them. Specifically, the Incident Management Plan contained a list of 18 functions called IRS critical business processes. These functions included processing remittances, user fees, and other related receivables; processing tax returns and refunds; and tax administration enforcement activities. The Incident Management Plan also identified the IRS business unit or units responsible for each critical business process, and outlined supporting activities for each unit. Although the Incident Management Plan listed the critical business processes in priority order but did not establish recovery time objectives for them, the three business resumption plans we reviewed included recovery time objectives for each of the subprocesses that make up that unit's contributions to the overall critical business processes. For example, the Chief Counsel plan indicated that the business unit contributes to the tax administration enforcement process through a subprocess called litigation and advice to staff. The plan assigned this subprocess a recovery time objective of 5 days.

In contrast, the headquarters COOP plan did not include any type of prioritization. The plan established a list of essential functions for IRS executive leadership, ranging from executive-level activities—such as providing leadership and accounting for personnel—to operational responsibilities—such as ensuring ongoing operation of specific IRS business units. However, this list was not prioritized with regard to

¹¹ GAO, Continuity of Operations: Agency Plans Have Improved, but Better Oversight Could Assist Agencies in Preparing for Emergencies, GAO-05-577 (Washington, D.C.: Apr. 28, 2005).

importance or time. According to an official of the Office of Physical Security and Emergency Preparedness, the agency did not prioritize the essential functions in its COOP plan because it determined that all the essential functions had the same priority and time sensitivity. Without fully prioritizing agency essential functions based on both their criticality and time sensitivity, IRS could be inhibited in responding to the full range of potential emergencies, especially those where there are limited resources available for recovery and agency operations must be restored over a short period.

People

According to FPC 65, agencies are to identify the personnel who would be critical to performing essential agency operations during an emergency, including staff directly responsible for relocating to an alternate location. All IRS headquarters plans we reviewed identified people critical to agency operations during an emergency by including rosters of personnel necessary to continue essential functions and to coordinate emergency efforts.

In support of IRS critical business processes, all three business resumption plans we reviewed included rosters of personnel. The W&I and CI business resumption plans outlined team leaders and personnel necessary to carry out critical business processes. The Chief Counsel plan identified individuals responsible for coordinating business resumption efforts—including business resumption team leaders. According to a Chief Counsel business resumption official, each business resumption team leader is responsible for identifying critical people within his or her office following an emergency and for maintaining roster information on all of the employees within the office.

In support of IRS essential functions, the COOP plan included lists of teams composed of executive leadership. For example, the COOP plan outlined a Commissioner Core COOP team responsible for immediately deploying to an alternate facility and coordinating the performance of IRS essential functions following an emergency. The team included the IRS Commissioner, Chief of Staff, and other executives. In addition, the plan identified a COOP standby team made up of additional executives, including commissioners of several business units, who have

¹² The Office of Physical Security and Emergency Preparedness—within the agency's Mission Assurance and Security Services unit—is the IRS program office responsible for emergency planning guidance and oversight.

responsibilities for essential functions and can be called upon to relocate to the alternate facility.

Resources

FPC 65 guides agencies in identifying and planning for the availability of resources needed to perform essential functions during an emergency, including vital records, critical systems and data, and equipment. The guidance states that agencies should pre-position critical resources and ensure that vital records and critical systems and data can be accessed from alternate locations.

Although all IRS emergency operations plans we reviewed identified the resources necessary to support critical business processes and essential functions, they did not indicate how such resources would be made available following an emergency. All three business resumption plans we reviewed identified resources needed to support business resumption activities. For example, the CI plan identified necessary vital records, such as contact lists; critical information systems, such as its evidence tracking databases; and telecommunications equipment, such as telephones and fax machines. In addition, the headquarters COOP plan identified resources needed to support essential functions, including vital records, such as phone directories; critical information systems, such as the agency's travel reimbursement and accounting system; and telecommunications equipment, such as cell phones, satellite phones, and pagers.

However, none of the plans we reviewed documented that the identified resources would be prepared and made ready for use following an emergency. For example, although the headquarters COOP plan and the W&I business resumption plan both outlined the vital records needed to support essential functions, neither identified where copies of the records would be located or how they would be accessed at an alternate work location. Similarly, the CI plan identified the number of computers needed by each of its offices, but did not outline where and how the computers would be made available at the time of an emergency. If such resources are not adequately prepared before a disruption occurs, the agency cannot ensure that they will be available when needed and its response could be delayed while the resources are acquired or moved to an alternate location.

Alternate Facilities

FPC 65 states that agencies are to provide a capability for their emergency personnel to continue performing agency essential functions and emergency operations activities from alternate locations by identifying and preparing alternate facilities. For example, it directs that the facility have space adequate to accommodate the personnel listed in the continuity plan

and communications capabilities adequate to maintain contact with the agency's personnel and key partners. It also directs that critical resources be pre-positioned at the site.

The headquarters COOP plan identified specific alternate facilities for relocation of executive personnel to perform essential functions following an emergency. In addition, the three business resumption plans we reviewed identified alternate facilities where their essential functions could be performed following an emergency. For example, the CI plan identified an alternate facility that could accommodate approximately 80 employees.

However, none of the plans we reviewed addressed site preparation. As a result, it is not clear whether the selected sites provide the agency with the capability for a timely response to a disruption. If the agency does not adequately prepare its alternate facilities before an emergency, its response could be delayed.

FPC 65 states that agencies should develop a decision process that guides officials in determining when and which emergency operations plans and procedures should be activated in response to an emergency. The IRS headquarters emergency operations plans we reviewed identified both the officials responsible for activating each plan and the emergency conditions under which activation would occur.

IRS addressed plan activation in its Incident Management and COOP plans. The Incident Management Plan established the authority of the Incident Commander to activate both the Incident Management Plan and the headquarters business resumption plans in response to incidents and disasters affecting critical business functions. Furthermore, the headquarters COOP plan identified a list of senior IRS officials—including the IRS Commissioner and deputy commissioners—authorized to activate the COOP plan in response to federal emergencies, continuity of government events, and credible threats of actions that would preclude access to or use of the IRS headquarters building and surrounding areas.

FPC 65 directs agencies to document procedures that guide personnel in executing the agency's emergency response capability. The COOP plan and Incident Management Plan outlined procedures that guide personnel in executing the agency's emergency response capability. However, the degree to which the selected business resumption plans provided such information varied.

Activation

Execution

Specifically, two of the three business resumption plans—the CI and W&I plans—outlined instructions for officials to follow in executing their plans and procedures while Chief Counsel's plan did not. According to a Chief Counsel official responsible for business resumption planning, the business unit relies upon business resumption team leaders identified within the plan to determine appropriate courses of action following an emergency based on supporting the active caseload.

Resumption

FPC 65 states that agencies are to identify and outline plans to return or transition to normal operations. IRS emergency operations plans we reviewed addressed the resumption of normal operations following an emergency through its business resumption plans and a reconstitution phase outlined in the headquarters COOP plan.

According to the Internal Revenue Manual, business resumption plans are developed to guide the orderly reestablishment of operations after an emergency. All three selected business units developed individual business resumption plans. The COOP plan assumed that business continuity plans were to be activated to resume business operations. However, the plan also identified a reconstitution phase to transition COOP personnel back to normal operations.

Tests, Training, and Exercises

Tests, training, and exercises are essential to demonstrating and improving an agency's ability to execute its continuity plans and procedures. The guidance established timetables for training that familiarizes agency personnel with the essential functions they may have to perform, as well as tests and exercises, which serve to assess, validate, or identify for subsequent correction specific aspects of agency plans, policies, procedures, systems, and facilities used in response to an emergency. These activities can also demonstrate the viability of agency plans and identify any deficiencies for correction.

While the IRS COOP plan established requirements for regular tests, training, and exercises, the Incident Management plan and the business resumption plans we reviewed did not. The headquarters COOP plan outlined detailed descriptions for activities, including alert and notification drills, orientation sessions, and tabletop and deployment exercises. It also specified how often each activity should be conducted, such as quarterly for tests of alert and notification procedures, and semiannually for tabletop exercises. In contrast, neither the Incident Management Plan nor the business resumption plans we reviewed outlined any information regarding the types of tests, training, and exercises to conduct or at what frequency they should occur. The Incident Management teams did,

however, conduct relevant training as recently as August 2005, and scheduled two exercises in 2006 that they were forced to cancel because of actual incidents at the facility. ¹³ If the agency does not conduct regular tests, training, and exercises, it cannot ensure that the people and resources it needs for a timely and effective response will be prepared for emergencies.

IRS Internal Guidance Did Not Fully Address Elements of a Viable Continuity Capability

Inconsistencies between IRS's business resumption plans and federal guidance can be attributed in part to gaps in IRS internal guidance. IRS provided its business units with guidance on developing business resumption plans, including general guidance within IRS's Internal Revenue Manual and a business resumption plan template disseminated to the business units. The Internal Revenue Manual provided IRS business units with minimum requirements of elements to include in their plans, such as identifying critical personnel and resources. In addition, the Office of Physical Security and Emergency Preparedness disseminated a business resumption plan template to business units that included, among other things, sections for identifying the critical business processes and personnel to support the resumption of critical activities.

IRS's internal guidance addressed several of the elements of a viable continuity capability. For example, the Internal Revenue Manual stated that business resumption plans should include a list of critical personnel, and the business resumption plan template asked each business unit to list its critical team leaders and members and their contact information. Similarly, the IRS guidance adequately addressed execution and resumption.

For other continuity planning elements, however, IRS guidance on developing business resumption plans was inconsistent with federal guidance. Specifically, IRS guidance on resources directed business units to identify their need for vital records, systems, and equipment. However, rather than procuring those resources before an event occurs, as outlined in federal guidelines, IRS guidance assumed that business units will work with teams outlined within the Incident Management Plan to acquire those

 $^{^{\}rm 13}$ According to the headquarters Incident Commander, a tabletop exercise scheduled for March 2006 was postponed because of a fire within the IRS headquarters building the day prior to the event. The rescheduled exercise was eventually canceled—along with a second exercise to be held later in the year—because of the June 2006 flooding and subsequent closure of the building.

resources following a disruption. Similarly, IRS directed business units to identify alternate work space requirements for personnel, but not to prepare or acquire them until after a disruption occurs. Finally, IRS guidance did not address the need for tests, training, or exercises involving the critical personnel identified within business resumption plans. Officials from the Office of Physical Security and Emergency Preparedness stated that it was the responsibility of business units to conduct adequate tests, training, and exercises of their business resumption plans.

Officials further stated that the IRS response to the June 2006 flooding validated the use of its incident command structure outlined in its Incident Management Plan. Although the incident command structure can be effective at securing needed resources over time, IRS will be able to respond to a disruption more quickly if it prepares necessary resources and facilities before an event occurs. This is especially critical in the case of business processes that need to be restored within 24 to 36 hours. Similarly, if personnel are unfamiliar with emergency procedures because of inadequate training and exercises, the agency's response to a disruption could be delayed.

IRS Emergency Plans Contributed to the Agency's Flood Response

IRS officials largely relied upon the Incident Management Plan to direct their response to the emergency conditions created by the June 2006 flooding. This plan guided officials in establishing roles and responsibilities for command and control of the overall resumption effort and a capability for the procurement of alternate facility space and equipment. Business unit officials were initially guided by their business resumption plans, but later response activities differed from those plans because of the circumstances resulting from the event. According to IRS headquarters officials, the headquarters COOP plan was not activated because local space availability made moving the executive leadership to the alternate COOP facility unnecessary and the safety of the leadership was not at risk.

The Incident Management Plan Contributed to Establishing a Command and Control Structure Immediately Following the Flood

We previously reported that in responding to emergencies, roles and responsibilities for leadership must be clearly defined and effectively communicated in order to facilitate rapid and effective decision making. ¹⁴ The IRS Incident Management Plan provided agency officials with clear leadership roles and responsibilities for managing the response and recovery process, including the procurement of temporary facility space and equipment necessary to continue critical business processes.

Consistent with the plan, the Incident Commander acted as the leader of IRS headquarters response and recovery activities immediately following the flood. To assist in managing the incident, the Incident Commander activated members of the IRS Incident Management Team and other supporting sections, whose roles and responsibilities were outlined in the plan. These individuals included business resumption team leaders from each of the IRS business units and personnel from the central service divisions, such as Real Estate and Facilities Management and Modernization and Information Technology Services.

According to minutes from Incident Management Team meetings held in the days following the flood, the following Incident Management supporting teams were activated and provided the following contributions:

- 1. The Operations Section, responsible for conducting response and recovery activities, gathered information regarding the facility space and equipment requests from the IRS business units, as well as preferences on alternate work location assignments.
- 2. The Logistics Section, responsible for providing all nonfinancial logistical support, procured and allocated facility space and equipment to IRS business units.
- 3. The Planning Section, responsible for providing documentation of the emergency, documented decisions and conducted reporting. For example, the Planning Section prepared documents for hearings and maintained relocation schedules and information.

¹⁴ GAO, Catastrophic Disasters: Enhanced Leadership, Capabilities, and Accountability Controls Will Improve the Effectiveness of the Nation's Preparedness, Response, and Recovery System, GAO-06-618 (Washington, D.C.: Sept. 6, 2006).

4. The Finance and Administrative Section, responsible for providing all financial support, provided assistance in monitoring agency costs and developing travel and leave policies.

According to IRS status reports following the flood, facility space was provided for critical personnel within 10 days and for all headquarters employees within 29 days. The Incident Commander reported that the Incident Management Team and its supporting units stepped down approximately 2 months after the flood.

Business Resumption Plans Guided Initial Business Unit Flood Responses

The three business units we reviewed reported that their business resumption plans guided their initial responses to the flood. In later phases of their responses, the business units differed from their plans to account for conditions at the time, such as current work priorities and the availability of alternate office space for more staff than the minimum necessary to perform the most critical functions. The following sections outline how selected business units relied on their business resumption plans when responding to the flood.

Criminal Investigation

CI used its business resumption plan to (1) establish an internal command structure to coordinate emergency activities following the flood and (2) identify short-term facility space for selected employees. According to the CI business resumption executive, the business unit used alternate facilities previously identified within the CI business resumption plan to relocate personnel within the first 2 days. CI leadership determined which personnel would be placed first and at what locations, since its business unit's resumption plan did not specify such information. According to the CI business resumption executive, after learning from the Incident Commander that relocation would be for a longer period and that alternate facility space was available to accommodate all displaced CI employees, CI officials submitted a request for facility space and equipment for all of their employees to the Incident Commander and Incident Management Team.

In discussing lessons learned, the CI business resumption executive acknowledged that the unit's plan primarily addressed relocation to alternate facilities for short-term emergencies rather than longer-term events like the flood, and that CI should work with IRS's central organizations to better plan for relocation in such situations. Furthermore, the executive stated that better tests and exercises of the CI plan could assist in better preparing for a wider range of future emergencies.

Wage and Investment

W&I officials used their plan to identify and prioritize critical tasks. W&I managers gathered at a previously scheduled off-site retreat the morning following the flood and conducted a review of the business unit's resumption plan, according to the new W&I business resumption executive. The executive stated that the activity was particularly useful in addressing identified knowledge gaps in the wake of the prior W&I business resumption leader's sudden death the day before the flood. Critical business processes and supporting tasks, initially prioritized within the plan, were adjusted to reflect the criticality of several tasks at that time of year. According to the business resumption executive, the revised list of critical business processes allowed W&I managers to identify critical personnel and resources, which were submitted to the Incident Management Team as facility space and resource requests. In addition, the executive stated that W&I managers established a system for placing employees in alternate work space based on their association with the prioritized tasks, although it was not reflected in the W&I business resumption plan.

W&I created a document to capture lessons learned following the flood and established an internal business resumption working group to ensure a business resumption capability in all W&I field offices. As W&I officials did not anticipate the need to readjust tasks, one item discussed in the document addressed the need to create a rolling list of critical business processes and critical personnel, as processes and tasks will vary throughout the year. In addition, the W&I business resumption working group developed minimum requirements for all W&I plans and conducted a gap analysis of field office plans to identify areas for improvement. According to the W&I business resumption executive, the working group will conduct a training session for field office business resumption coordinators after the 2007 filing season.

Chief Counsel

Although the Chief Counsel resumption efforts were led by people identified within its plan, the unit's business resumption officials reported that use of the plan was limited because of the high-level content of the document. According to the Chief Counsel's business resumption executive, the plan was written at a high level because it was expected that specific priorities would be determined by the active caseload at the time of the emergency. The executive stated that following the flood, Chief Counsel prioritized resumption activities based on the active caseload and the need to address emerging requirements, such as (1) ensuring that mail addressed to the business unit's processing division was rerouted and processed at another facility and (2) supporting a specific court case being conducted in New York City because of its level of criticality and time

sensitivity. The executive further stated that officials identified alternate work space in Chief Counsel offices in the Washington, D.C., metropolitan area and placed approximately 180 employees prioritized based on the organizational hierarchy. Chief Counsel submitted requests to the Incident Commander and Incident Management Team for facility space and resources for over 500 remaining employees.

Although Chief Counsel was able to identify tasks, such as tax litigation, that were consistent with responsibilities outlined in its plan and procured facility space and resources for personnel, it established a task force that identified recommendations to improve the business unit's plan in a report documenting lessons learned following the flood. Recommendations included measures to improve the prioritization of critical functions and people and outline provisions for mail processing. In addition, because Chief Counsel experienced delays in recovering a computer server that had not been identified in the business resumption plan but proved to be important following the flood, the task force addressed the need to ensure redundancy of information technology equipment. Chief Counsel is currently drafting an action plan to carry out the recommendations of the task force. In addition, a Chief Counsel business resumption official stated that agencywide tests and exercises of business resumption plans could assist in better integration of emergency efforts for a wider range of future emergencies.

IRS Headquarters Continuity of Operations Plan Was Not Used in Flood Response According to IRS headquarters officials, the headquarters COOP plan was not activated because local space availability made movement of executive leadership to the alternate COOP facility unnecessary and the safety of the leadership was not at risk.

Conclusions

When the June 2006 flood occurred at the IRS headquarters building, the agency had in place a suite of emergency plans that helped guide its response. The agency's Incident Management Plan was particularly useful in establishing clear lines of authority and communications, conditions that we have previously reported to be critical to an effective emergency response. Unit-level business resumption plans we reviewed contributed to a lesser extent and the headquarters COOP plan was not activated because of conditions particular to the 2006 flood. Specifically, damage to the building was limited to the basement and subbasement levels, and employees were able to enter the building to retrieve equipment and assets. In addition, alternate work space was available for all employees within a relatively short period, reducing the importance of identifying

critical personnel. Such conditions, however, may not be present during future disruptions.

The plans IRS had in place at the time of the flood did not address all of the elements outlined in federal continuity guidance. In particular, the IRS plans did not (1) prioritize all essential functions and set targets for recovery times; (2) outline the preparation of resources and alternate facilities necessary to perform those functions; and (3) develop provisions for tests, training, and exercises of all of its plans. In discussions on lessons learned from the flood response, IRS business unit officials recognized the need to incorporate many of these elements. Unless IRS addresses these gaps, it will have limited assurance that it will be prepared to continue essential functions following a disruption more severe than the 2006 flood.

Recommendations for Executive Action

To strengthen the ability of IRS to respond to the full range of potential disruptions to essential operations, we are making two recommendations to the Commissioner of Internal Revenue:

- Revise IRS internal emergency planning guidance to fully reflect federal
 guidance on the elements of a viable continuity capability, including the
 identification and prioritization of essential functions; the preparation of
 necessary resources and alternate facilities; and the regular completion of
 tests, training, and exercises of continuity capabilities.
- Revise IRS emergency plans in accordance with the new internal guidance.

Agency Comments

The Commissioner of Internal Revenue provided comments on a draft of this report in a March 26, 2007, letter which is reprinted in appendix II. The Commissioner agreed with our recommendations. His letter notes that the agency is actively committed to improving its processes. Specifically the agency will (1) conduct a thorough gap analysis between FPC 65 elements and business continuity planning guidance; (2) update the Internal Revenue Manual guidance and business resumption plan templates to reflect areas of improvement resulting from the gap analysis; and (3) formally direct annual tests, training, and exercises of business resumption plans through the agency's Emergency Management and Preparedness Steering Committee. Finally, the Commissioner stated that the agency will revise and implement its emergency plans based on the results of the aforementioned activities.

As agreed with your staff, unless you publicly announce its contents earlier, we plan no further distribution of this report until 30 days after its date. At that time, we will send copies of this report to the Secretary of the Treasury, the Commissioner of Internal Revenue, and other interested parties. This report will also be available at no charge on the GAO Web site at http://www.gao.gov.

Should you or your staff have questions on matters discussed in this report, please contact Bernice Steinhardt at (202) 512-6543 or steinhardtb@gao.gov, or Linda Koontz at (202) 512-6240 or koontzl@gao.gov. Contact points for our Offices of Congressional Relations and Public Affairs may be found on the last page of this report. Key contributions to this report were made by William Doherty, Assistant Director; James R. Sweetman, Jr., Assistant Director; Thomas Beall; Michaela Brown; Terrell Dorn; Nick Marinos; and Nhi Nguyen.

Sincerely yours,

Bernice Steinhardt

Director, Strategic Issues

Linda D. Koontz

Director, Information Management Issues

Linda & Koontz

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Appendix I: Objectives, Scope, and Methodology

The objectives of this report were to

- evaluate how the Internal Revenue Service's (IRS) emergency operations plans address federal guidance related to continuity planning and
- evaluate the extent to which IRS emergency operations plans contributed to the actions taken by IRS officials in response to the flood.

To address how IRS emergency operations plans address federal guidance related to continuity planning, we obtained the IRS headquarters emergency operations plans that were available to agency officials at the time of the June 2006 flood. These included the Continuity of Operations (COOP) plan and a suite of business continuity plans, including the Incident Management Plan and 13 business resumption plans from business units affected by the flood. Although we also obtained the headquarters Occupant Emergency Plan, we did not evaluate its contributions to addressing the elements because its purpose is limited to outlining procedures for building occupants and emergency personnel in responding to threats that require building evacuations or shelter in place. We did not obtain the Disaster Recovery Plan, a contingency plan for the recovery of information technology equipment, because recovery of information technology equipment was addressed in a report from the Treasury Inspector General for Tax Administration.

To evaluate IRS's emergency operations plans in relation to federal guidance on continuity planning, we analyzed Federal Preparedness Circular (FPC) 65 to identify the elements needed to ensure the continuity of essential functions and compared IRS emergency operations plans to the resulting generalized list. Because FPC 65 covers all hazard emergencies, but provides continuity guidance specifically for agency COOP plans, we developed the general elements of guidance to be able to collectively evaluate all IRS emergency operations plans we obtained. From our analysis of FPC 65, we identified eight general elements of guidance related to developing a viable continuity capability. See table 3 for a listing and description of the elements. We reviewed IRS's plans and analyzed how they collectively addressed or did not address these eight general elements of guidance.

We also reviewed IRS-defined criteria and guidance for emergency operations plans, including sections of the Internal Revenue Manual—which provides guidance to IRS officials on developing several of the agency's emergency operations plans—and an internal template provided by IRS's Office of Physical Security and Emergency Preparedness, which

Appendix I: Objectives, Scope, and Methodology

is responsible for agencywide emergency planning and policy to guide plan development.

Since each business unit within IRS headquarters has an individual plan for business resumption activities, we selected and examined 3 of 13 business resumption plans available for use during the flood from the 3 business units with the most employees affected by the flooding in the headquarters building. According to employee relocation lists from IRS following the flood, the 3 largest business units in the building are Criminal Investigation, Wage and Investment, and Chief Counsel, which collectively represent over 50 percent of the headquarters building employees.

To address the extent to which IRS emergency operations plans contributed to the actions taken by IRS officials in response to the flood, we interviewed IRS officials responsible for the development, oversight, and implementation of the headquarters emergency operations plans. In our interviews, we asked IRS officials responsible for each emergency operations plan how the general elements identified in their respective plans guided their actions following the flood, if at all.

To supplement the information gained from the interviews, we reviewed agency documentation related to emergency operations activities following the flood, including IRS status reports, employee relocation lists, and emergency operations team meeting minutes. In addition, we reviewed documentation regarding lessons learned from the flood, provided by various headquarters business units, and obtained any updates or changes to emergency operations plans following the flood.

We conducted our review in accordance with generally accepted government auditing standards from July 2006 through March 2007.

Appendix II: Comments from the Internal Revenue Service



DEPARTMENT OF THE TREASURY INTERNAL REVENUE SERVICE WASHINGTON, D.C. 20224

March 26, 2007

Ms. Linda D. Koontz Director, Information Management Issues U.S. Government Accountability Office 441 G Street, NW Washington, DC 20548

Dear Ms. Koontz:

I am writing to provide the Internal Revenue Service's comments on the Government Accountability Office (GAO) draft report, "IRS Emergency Planning: Headquarters Plans Supported Response to 2006 Flooding, but Additional Guidance Could Improve All Hazard Preparedness" (GAO-07-579).

We appreciate your comments regarding the IRS' response to the Headquarters Building Flood. Over the past several years, IRS has engaged in a service-wide strategy regarding emergency preparedness, business resumption, and incident response. Lessons learned from actual emergency incidents have resulted in significant enhancements to our incident management and business resumption processes. While significant progress has been advanced, we recognize that continued diligence is required. We fully understand the importance of ensuring that our efforts comply with federal requirements and guidelines.

As you know, the Treasury Inspector General for Tax Administration (TIGTA) also reviewed IRS' efforts related to the Headquarters Building Flood. TIGTA's report endorsed our preparedness and performance in responding to this incident.

We agree with the two audit recommendations and are actively committed to improving our processes. Enclosed are our comments that address each recommendation.

I appreciate your continued support and the valuable guidance from your staff. If you have any questions or wish to discuss this response in more detail, please contact Daniel Galik, Chief, Mission Assurance and Security Services, at (202) 622-8910, regarding emergency response policy and plan development matters, or James P. Falcone, Chief, Agency-Wide Shared Services, at (202) 622-7500, concerning emergency response execution.

Sincerely

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Mark W. Everson

Appendix II: Comments from the Internal Revenue Service

Enclosure

Comments of the Internal Revenue Service on the GAO report entitled "IRS Emergency Planning: Headquarters Plans Supported Response to 2006 Flooding, but Additional Guidance Could Improve All Hazard Preparedness" (GAO-07-579)

Recommendation 1

Revise IRS internal emergency planning guidance to fully reflect federal guidance on the elements of a viable continuity capability, including the identification and prioritization of essential functions; the preparation of necessary resources and alternate facilities; and regular completion of tests, training, and exercises of continuity capabilities.

Response

We agree with this recommendation and will:

- Conduct a thorough gap analysis between FPC 65 elements and business continuity planning guidance.
- Update Internal Revenue Manual (IRM) guidance and business resumption plan templates to reflect areas of improvement resulting from the aforementioned gap analysis.
- Under the auspices of the Emergency Management and Preparedness Steering Committee (EMPSC), formally direct annual tests, training and exercising of business resumption plans.

Recommendation 2

Revise the IRS emergency plans in accordance with the new internal guidance.

Response

We agree with this recommendation and as outcomes result from efforts addressing recommendation 1, above, emergency plans will be revised and implemented.

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