

*BUILDING DESIGN FOR HOMELAND SECURITY*

# Unit VI

## FEMA 452

# Risk Assessment Database



**FEMA**

*BUILDING DESIGN FOR HOMELAND SECURITY*

# FEMA 452: Risk Assessment



*Risk Management Series*

## Risk Assessment

A How-To Guide to Mitigate Potential Terrorist Attacks  
Against Buildings

FEMA 452 / January 2005

**Available at: <http://www.fema.gov/plan/prevent/rms/rmsp452.shtm>**



# FEMA

# Unit Objectives

**Explain** the database install process

**Identify** where to save photos, maps, drawings, plans, etc. to interface with the database

**Explain** the information required for the database to function within each screen, how to move between screens, and switch between the assessor's tool and the master database

**Explain** the benefit and approaches to setting priorities on identified vulnerabilities

**Explain** how to use the master database to produce standard reports and search the database for specific information



**FEMA**

# Program Installation

- Download self installing files from FEMA Web site or
- Install from CD provided during course
- Run **SETUP.EXE** for Assessor Tool

---

 **AssessorTool-v2\_2006-04-05**

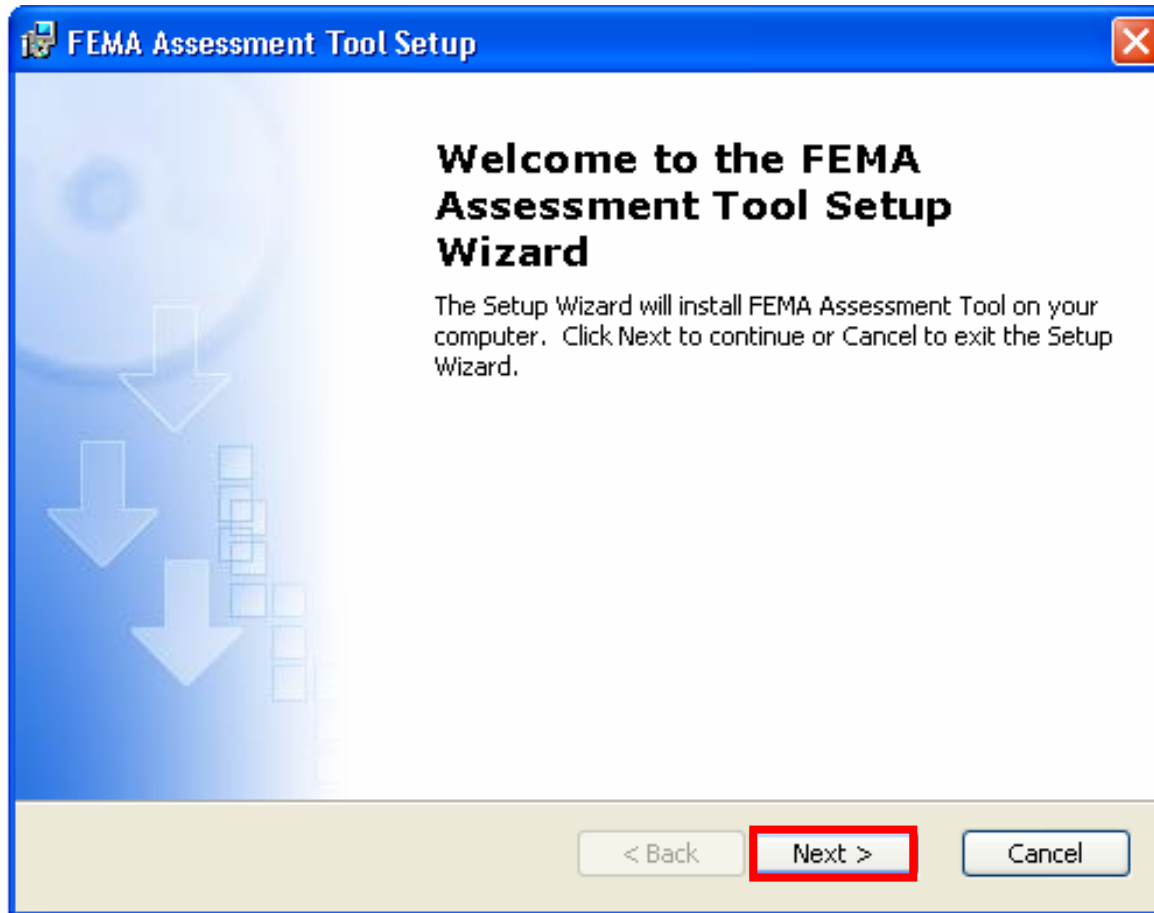


**Version 2.0 is soon to be available at:**  
<http://www.fema.gov/plan/prevent/rms/rmsp452.shtm>



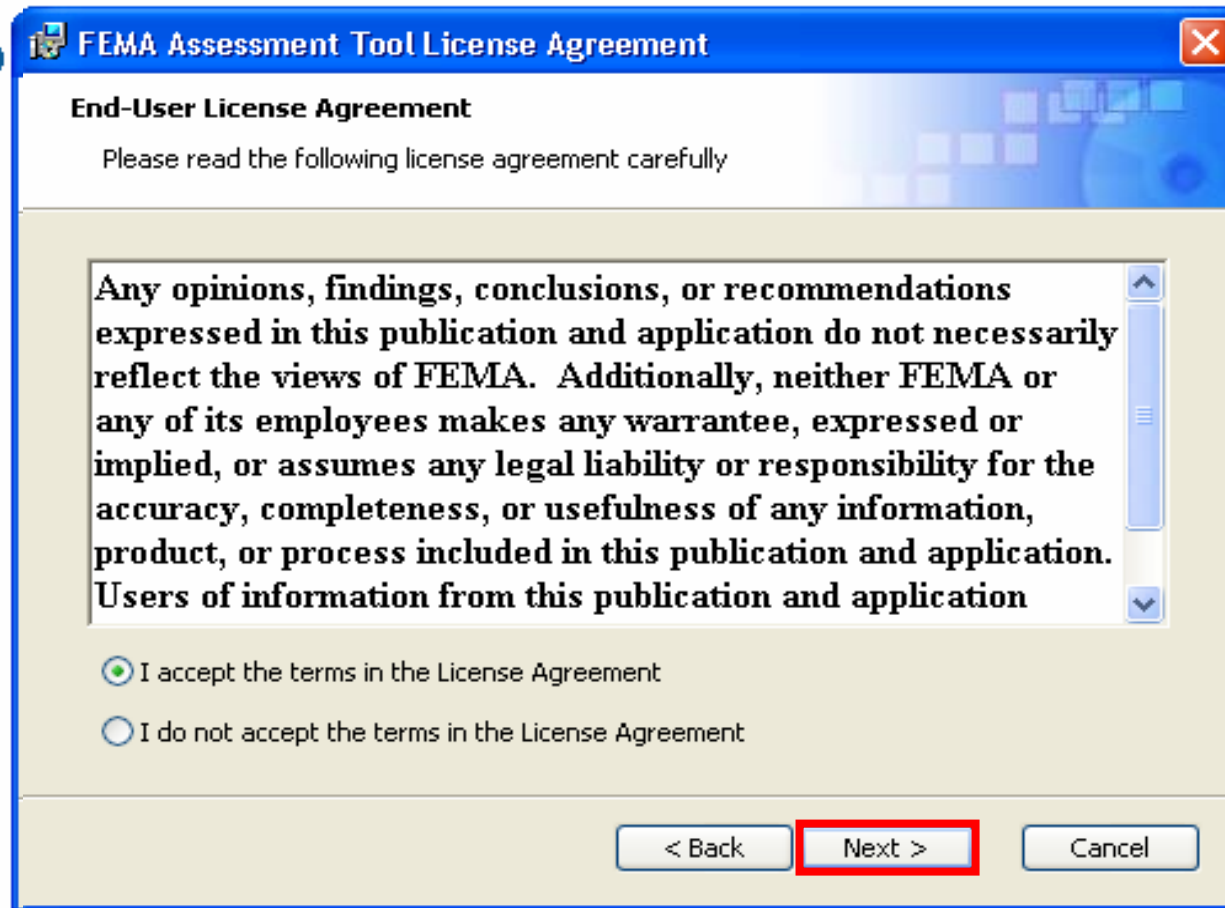
**FEMA**

# Program Installation



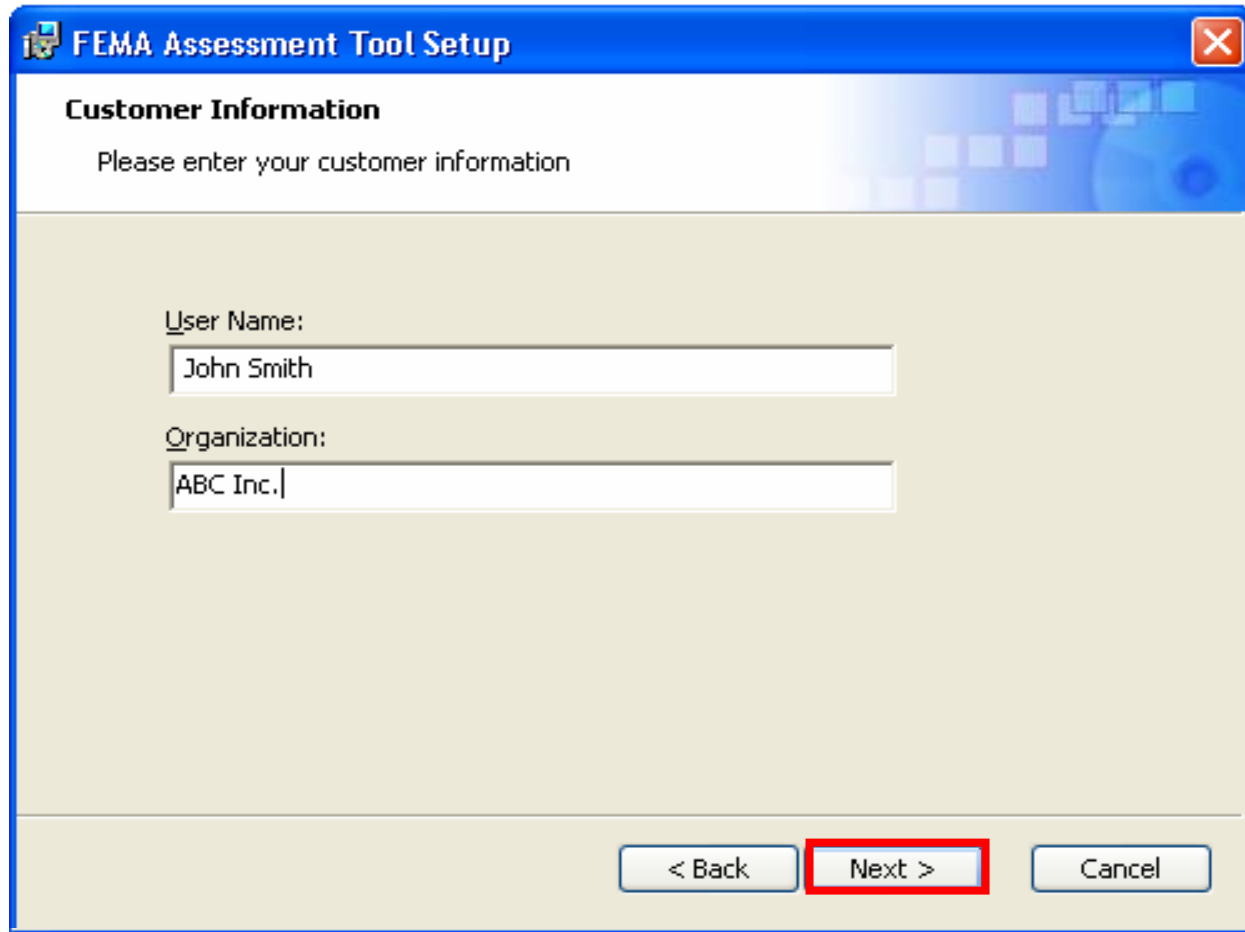
**FEMA**

# Program Installation



FEMA

# Program Installation



**FEMA Assessment Tool Setup**

**Customer Information**

Please enter your customer information

User Name:  
John Smith

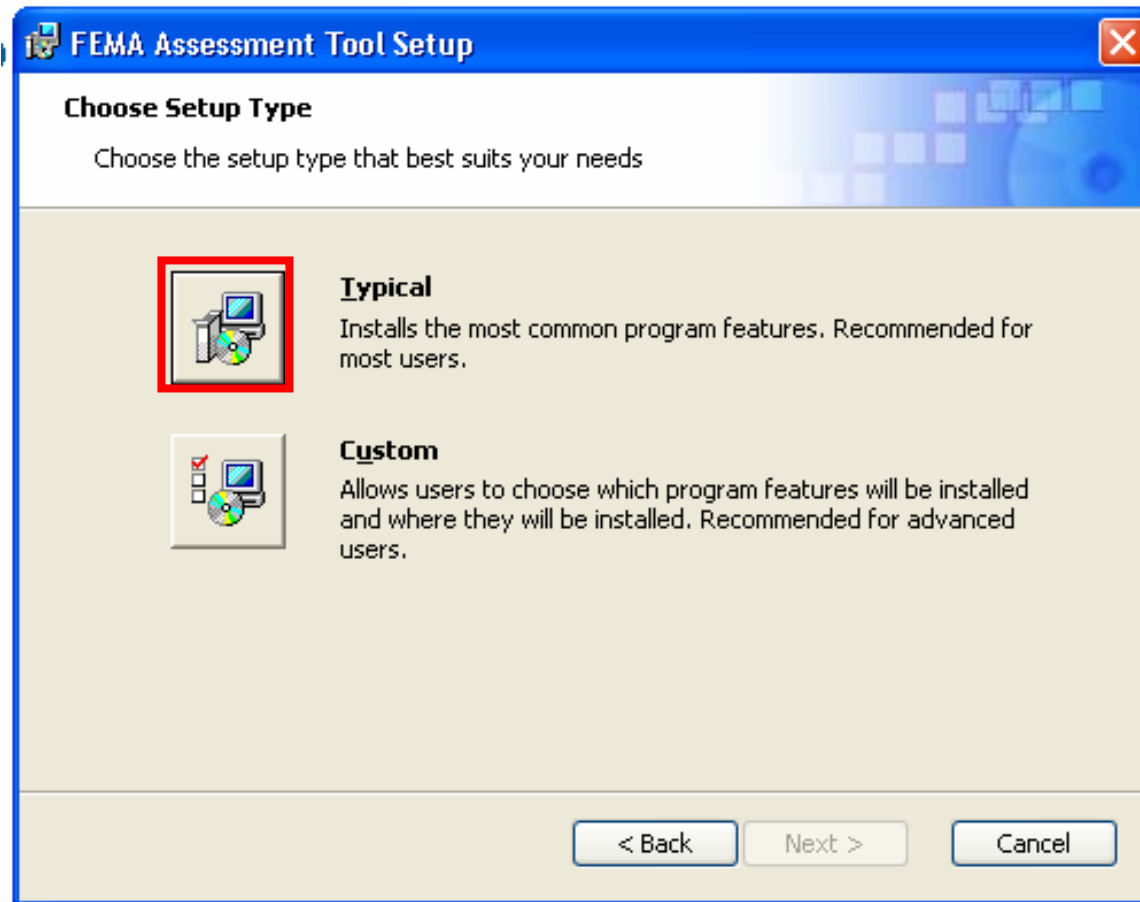
Organization:  
ABC Inc.

< Back   **Next >**   Cancel



**FEMA**

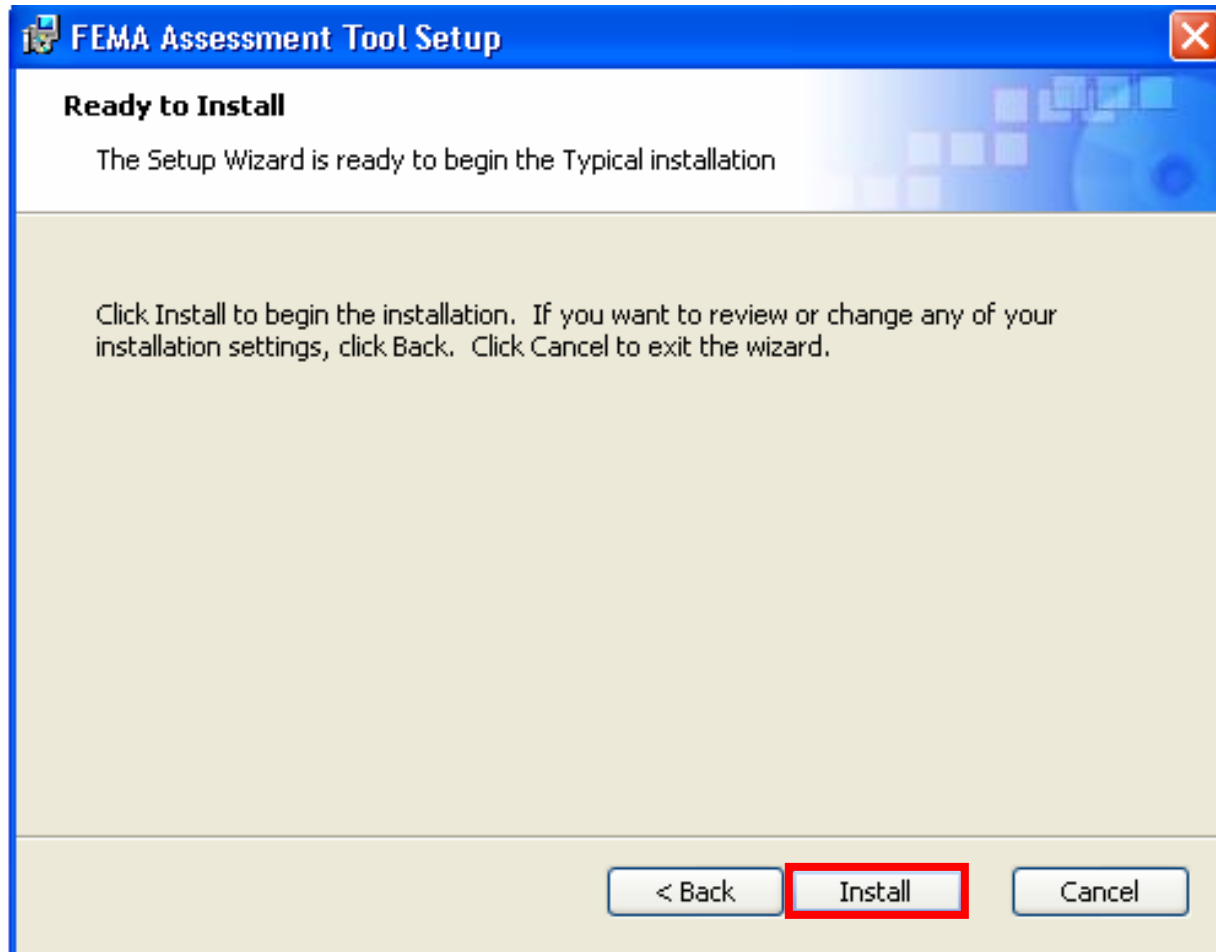
# Program Installation



FEMA

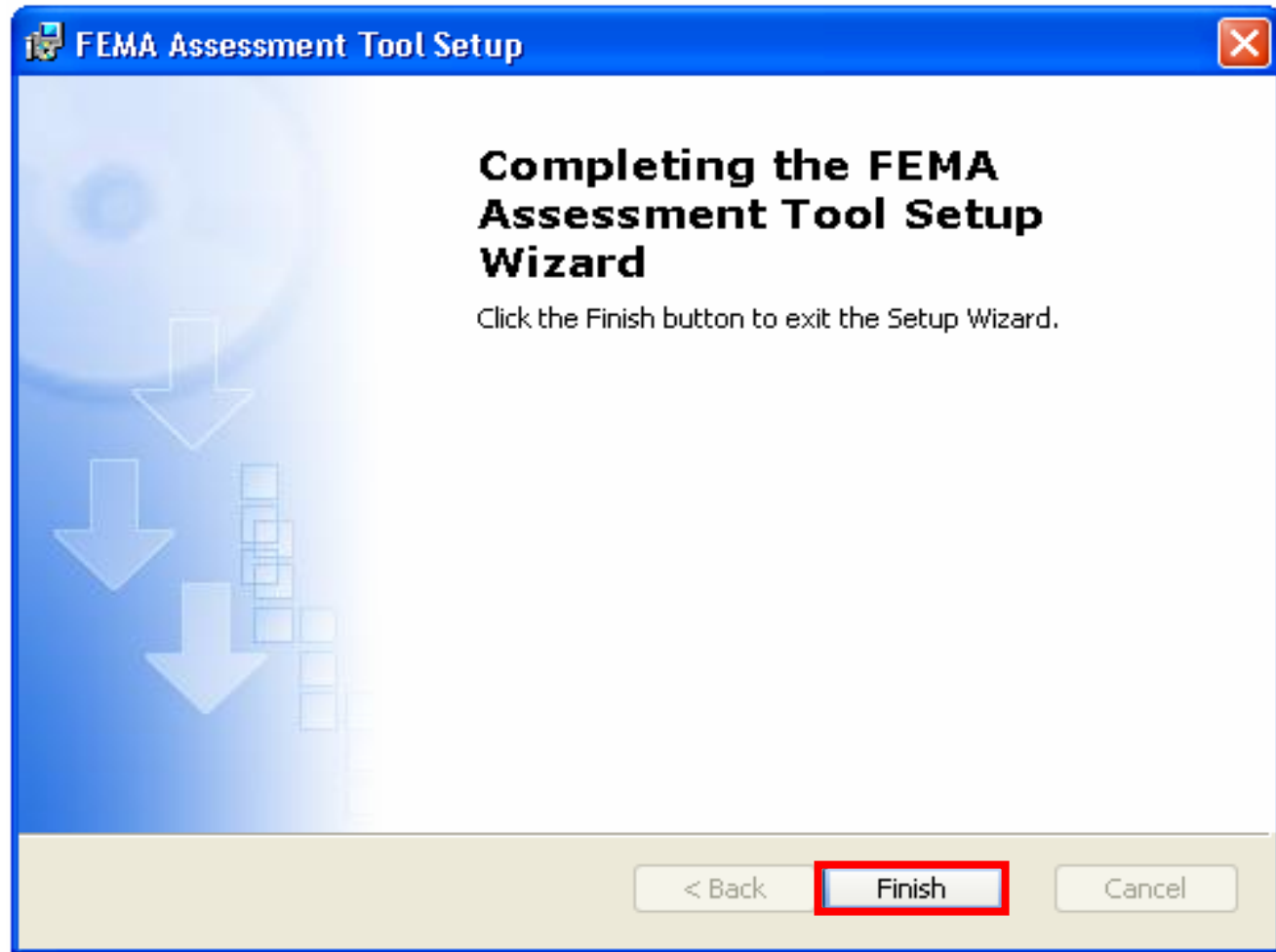


# Program Installation



FEMA

# Program Installation



FEMA

# Program Installation

- Download self installing files from FEMA Web site or
- Install from CD provided during course
- Run SETUP.EXE for Master Database

---

## Master Database Installation-v2\_2006-04-05



**Version 2.0 is soon to be available at:**  
**<http://www.fema.gov/plan/prevent/rms/rmsp452.shtm>**



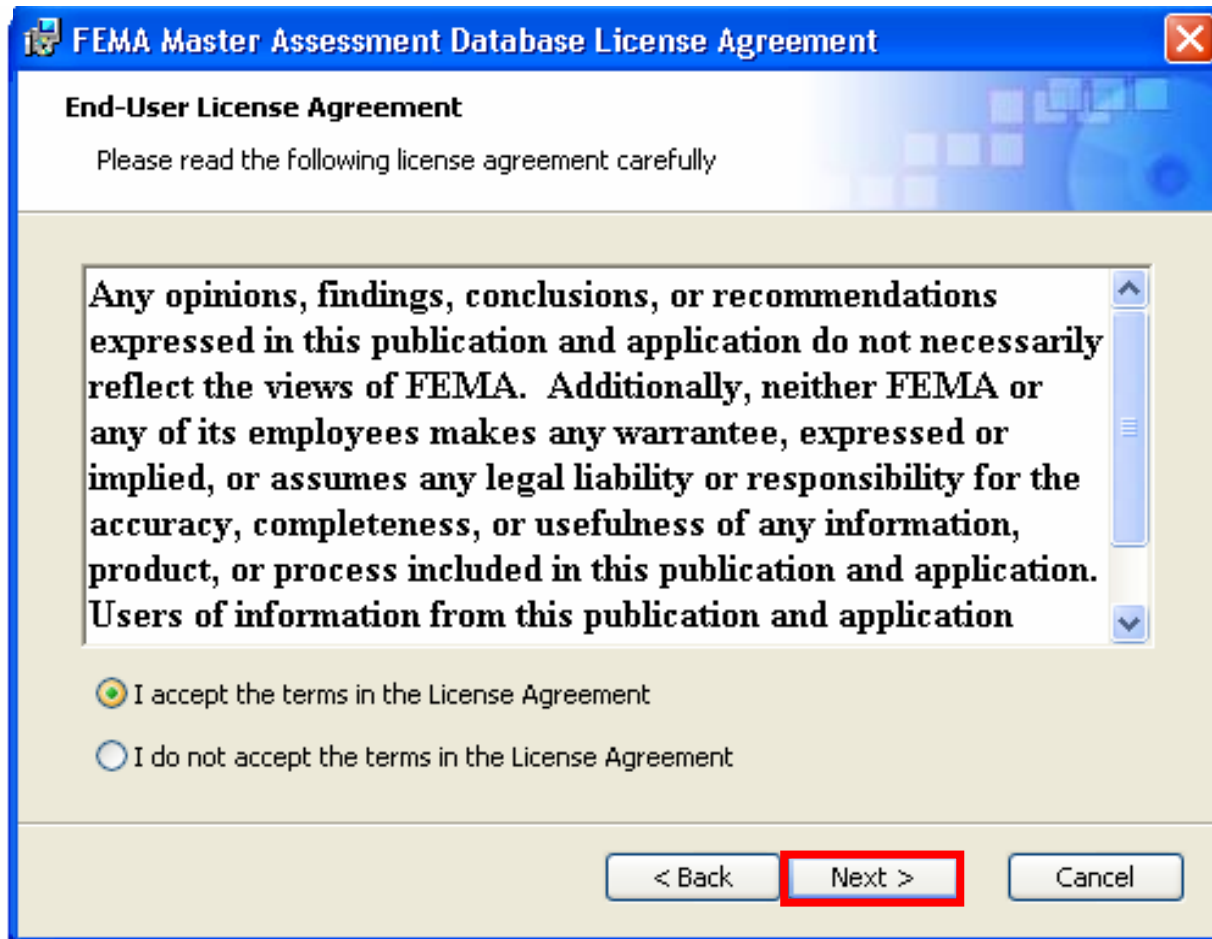
**FEMA**

# Program Installation



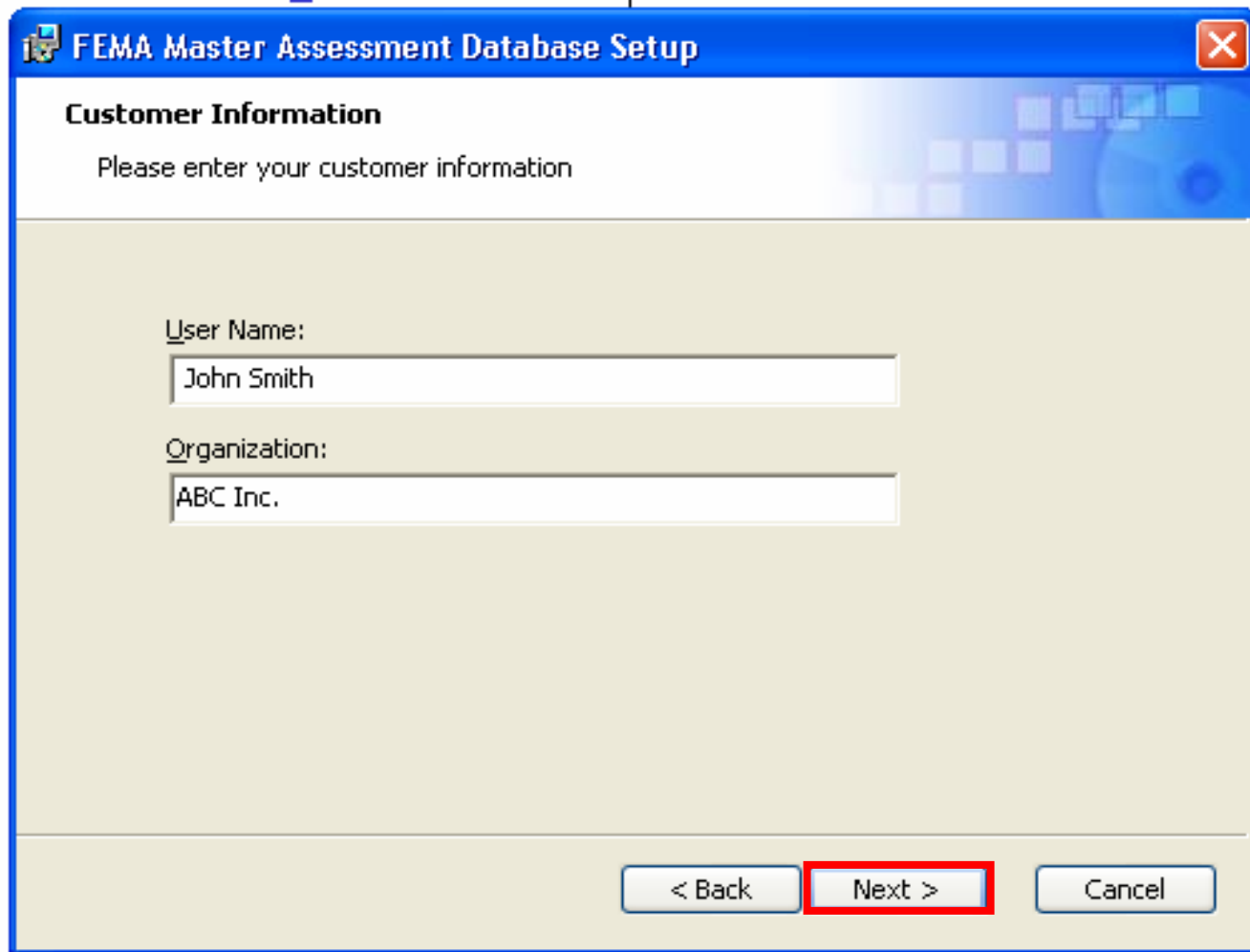
FEMA

# Program Installation



FEMA

# Program Installation



The screenshot shows a Windows-style dialog box titled "FEMA Master Assessment Database Setup". The window has a blue title bar with a close button in the top right corner. The main content area is light beige and contains the following text and form fields:

**Customer Information**  
Please enter your customer information

User Name:

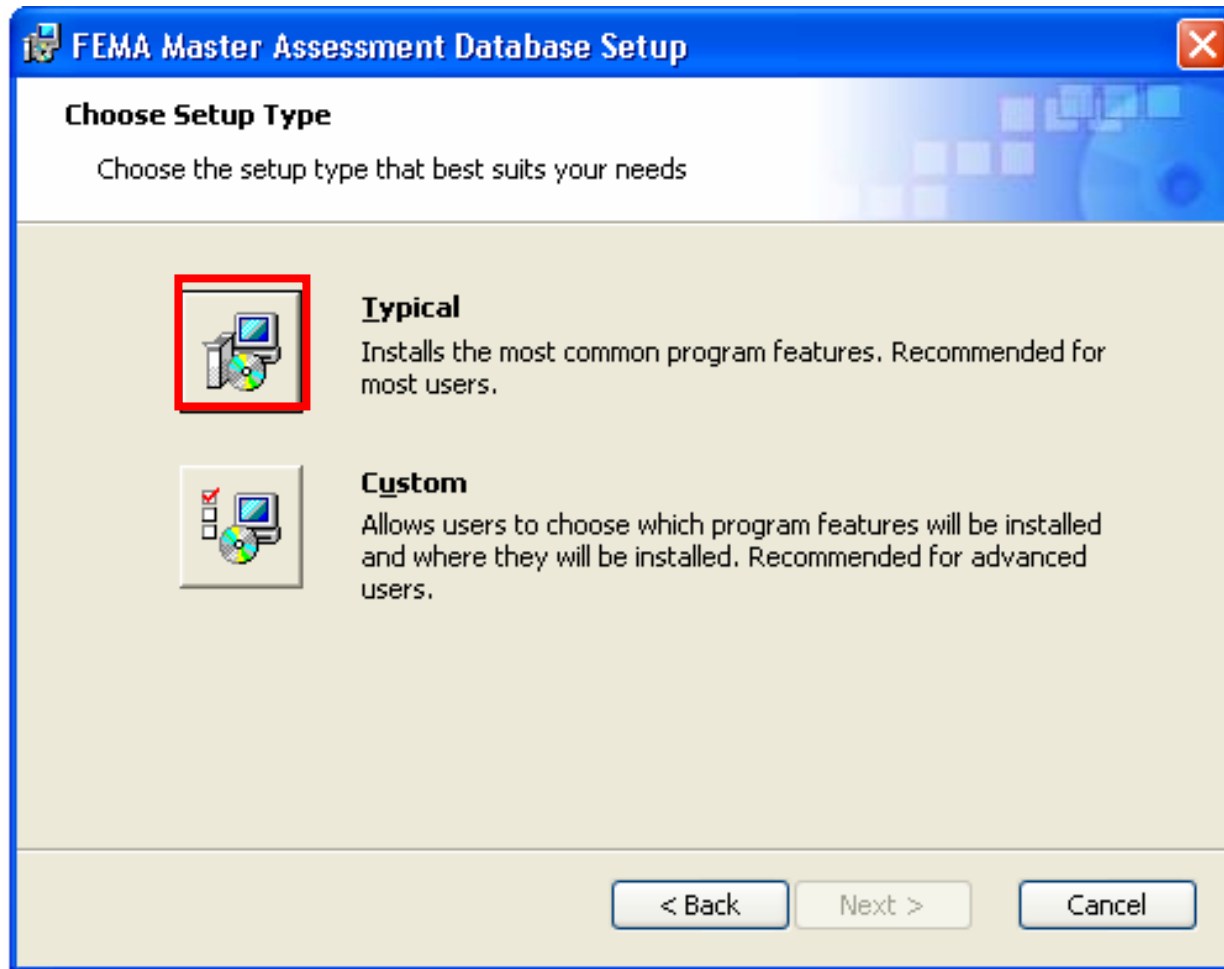
Organization:

At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a red rectangular border.



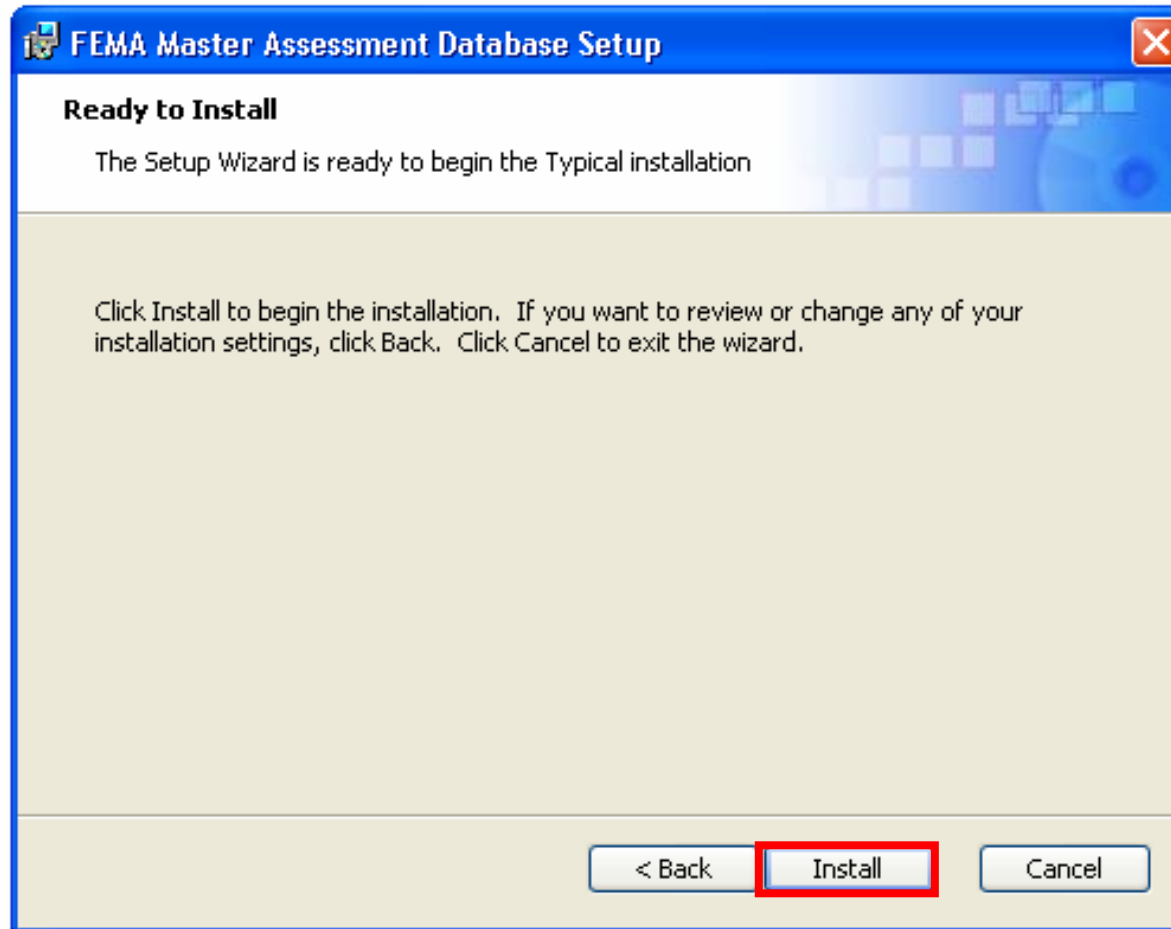
FEMA

# Program Installation



FEMA

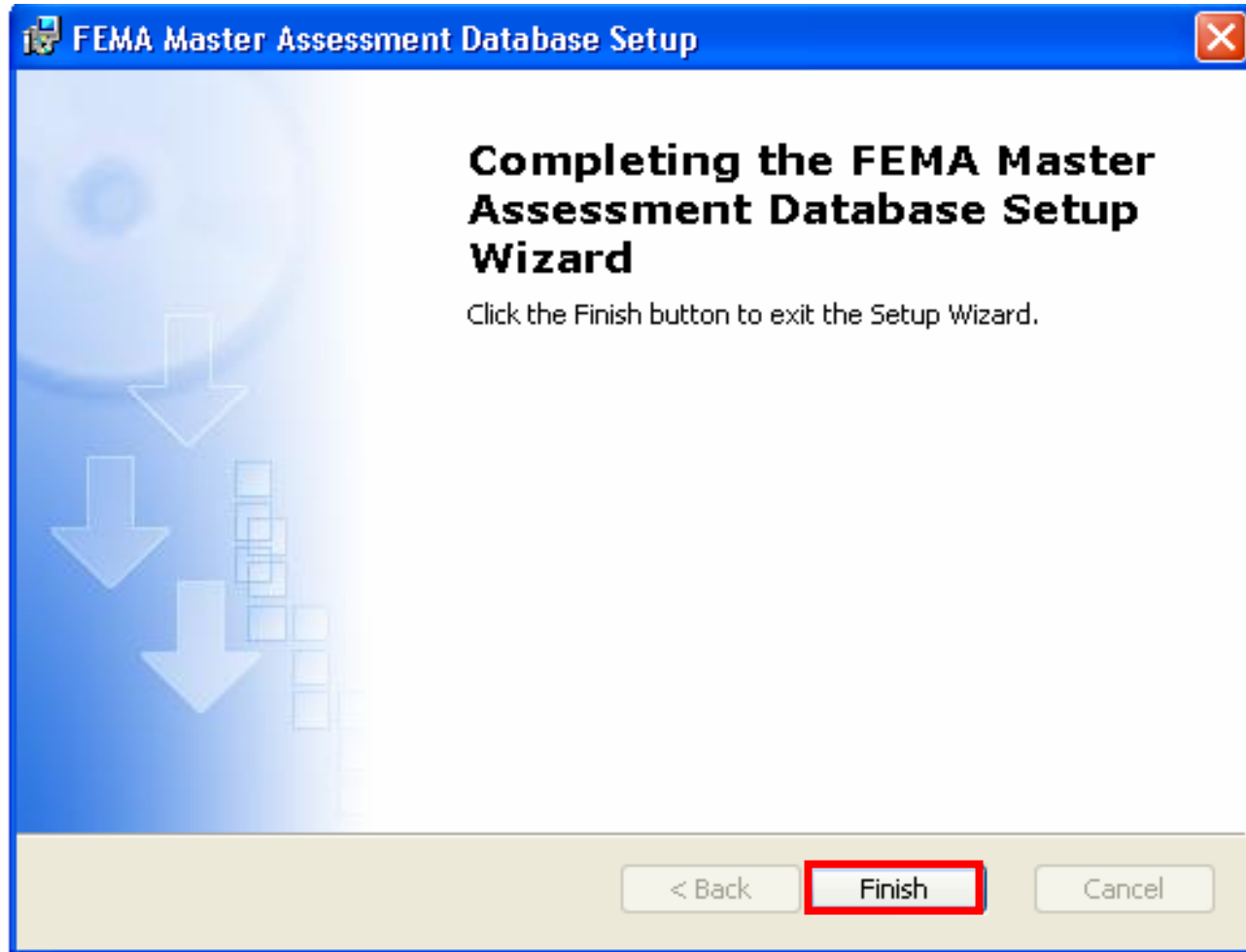
# Program Installation



**FEMA**

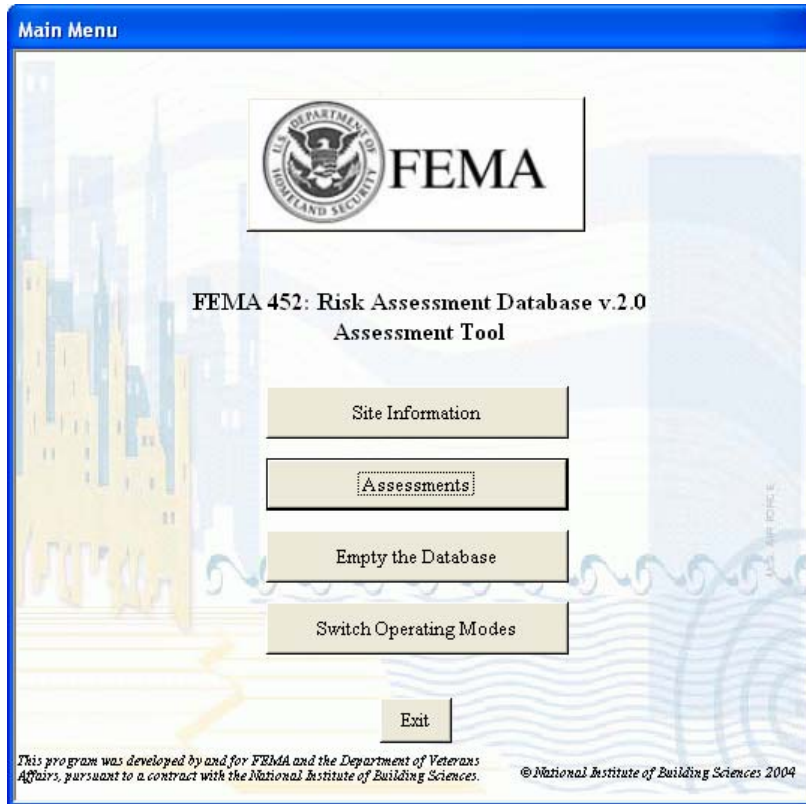


# Program Installation



FEMA

# FEMA 452: Risk Assessment



## Assessor Tool



## Master Database



# FEMA

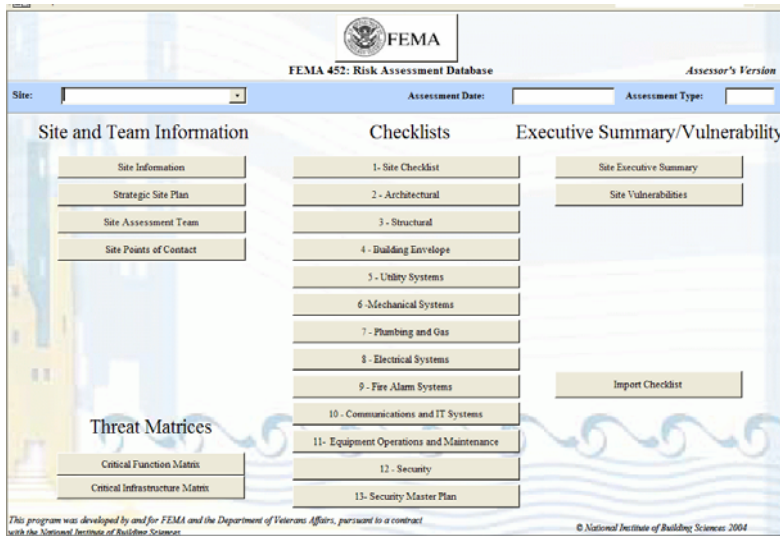
# Database Structure

Conduct Assessment

Import Assessment Data

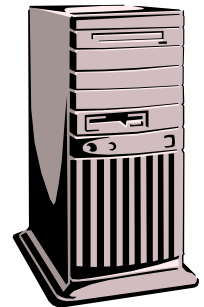
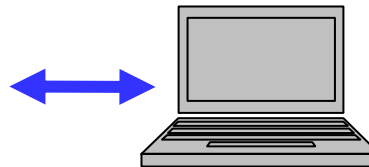
Analyze Data

Store Data



Master Database

Return Files, Pictures, Data



Assessor Tool  
(MS Access)

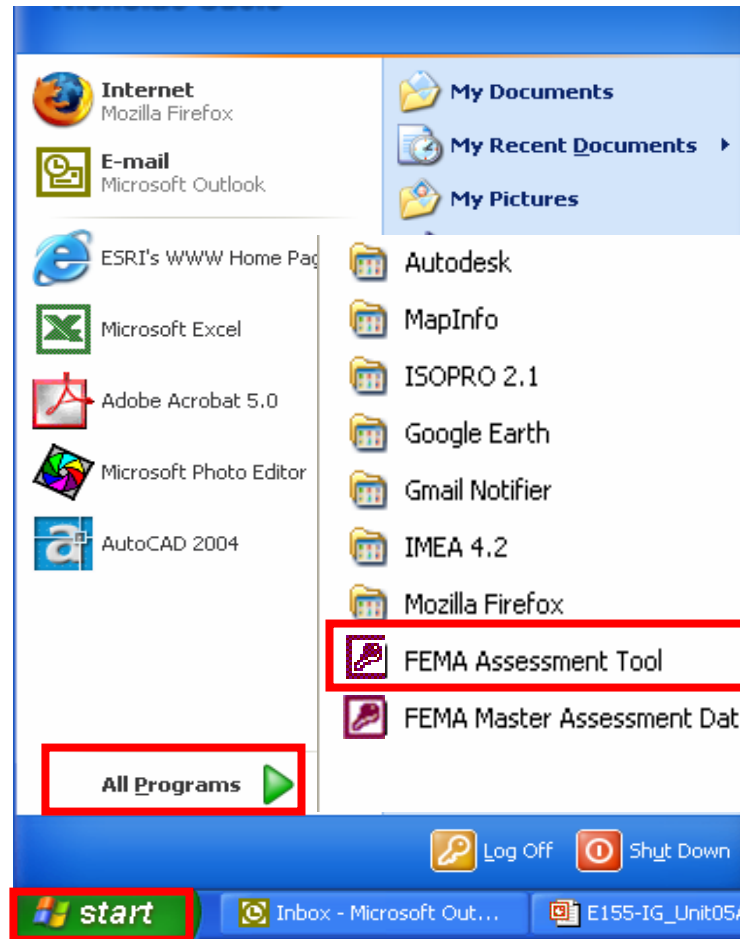
Assessor Tool

Master Database  
(MS Access)



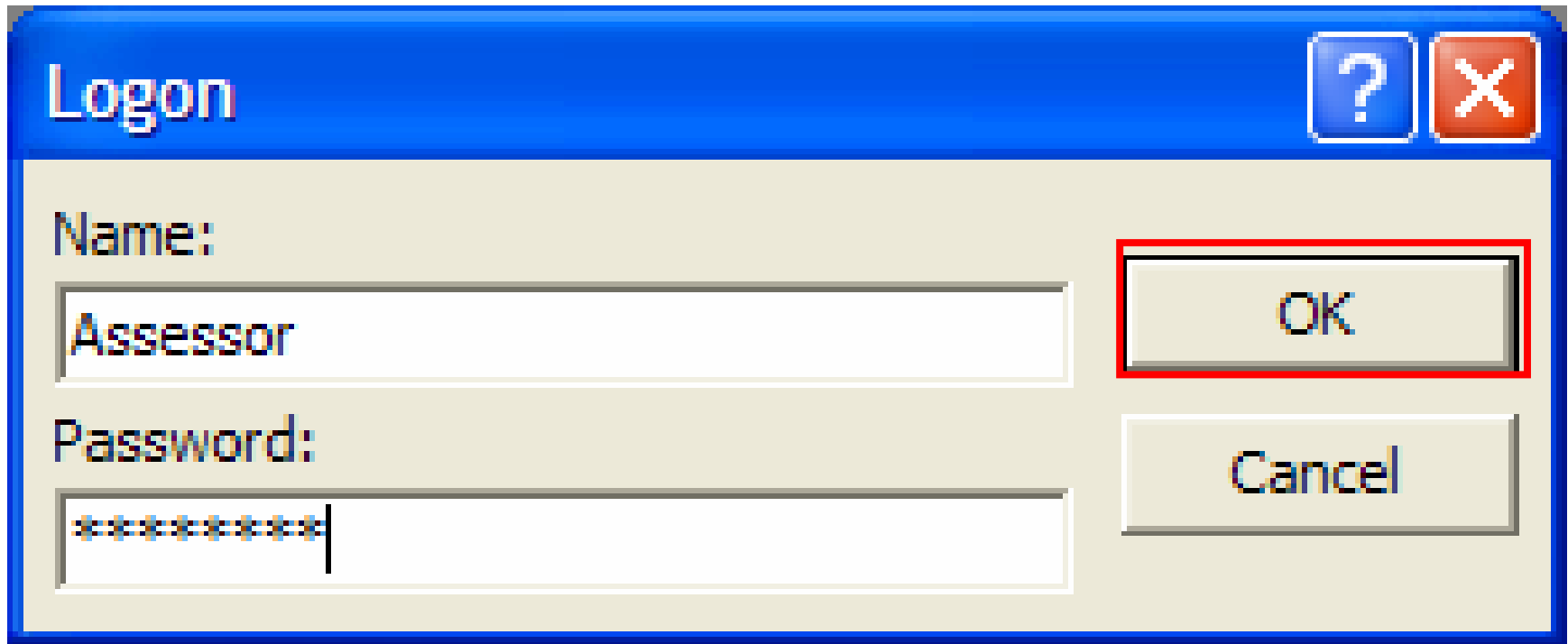
FEMA

# Open Assessor Tool



FEMA

# Login to Assessor Tool

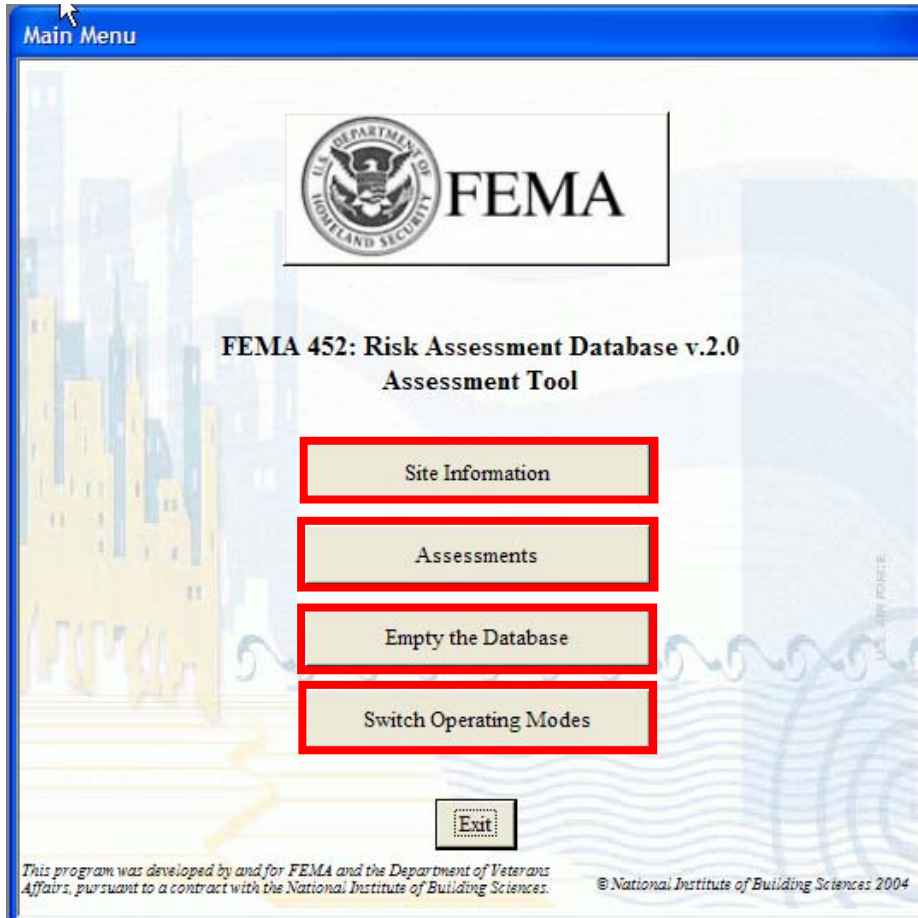


The image shows a classic Windows-style dialog box titled "Logon". The title bar is blue and contains a question mark icon and a close (X) icon. The main area has a light beige background. On the left, there are two labels: "Name:" and "Password:". Below "Name:" is a text input field containing the word "Assessor". Below "Password:" is a text input field containing ten asterisks. To the right of these fields are two buttons: "OK" and "Cancel". The "OK" button is highlighted with a red rectangular border.



FEMA

# Assessor Tool



- **Create and name assessment site**
- **Enter assessment screen**
- **Empty database**
- **Switch to Master Database Mode**



**FEMA**

# Site Information

**Create Assessment Site**

Site Name\*: Hazardville Information Co      Default Site Image: [Dropdown]

Address1: 1234 USA Drive      Site Descriptive Text: [Text Area]

Address2: [Text Area]

City: Hazardville      St: AK

Zip: 12345

Assessments | Buildings

Assessment Location

Assessment Date

Assessment Type

No Image Available

**Microsoft Access**

This Site Assessment will be stored in folder:  
C:\Program Files\FEMA\_Assessment Tool\Hazardville Information Co\Assessment\_2005-10-01\

Photos will need to be placed in the \Photos subfolder  
GIS Portfolio images will need to be placed in the \GIS\_Portfolio subfolder  
Miscellaneous files will need to be placed in the \Miscellaneous subfolder

OK

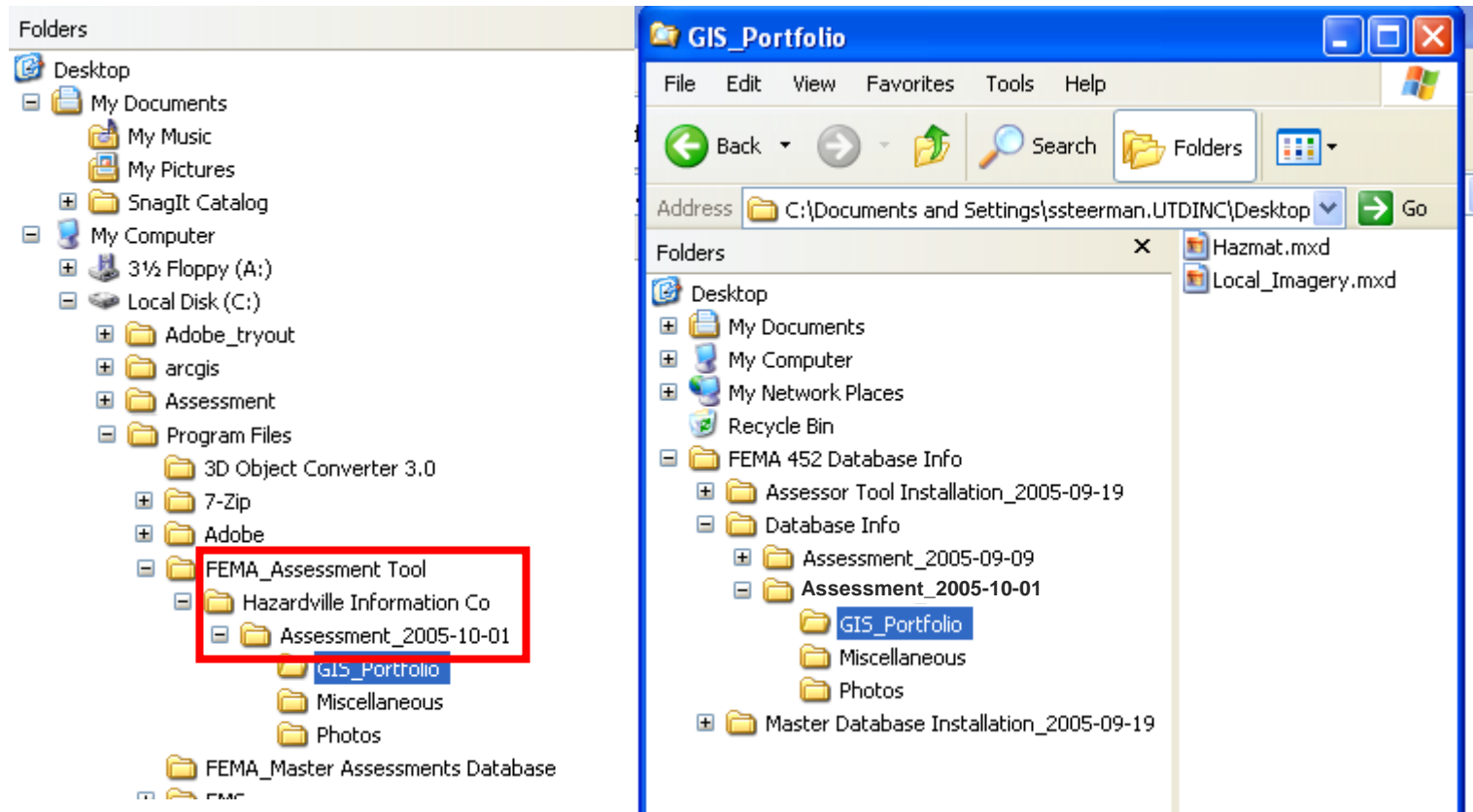
New Site    <-Previous Site    Next Site->    \* Required Field(s)    Close

Record: 1 of 1



FEMA

# Load Information



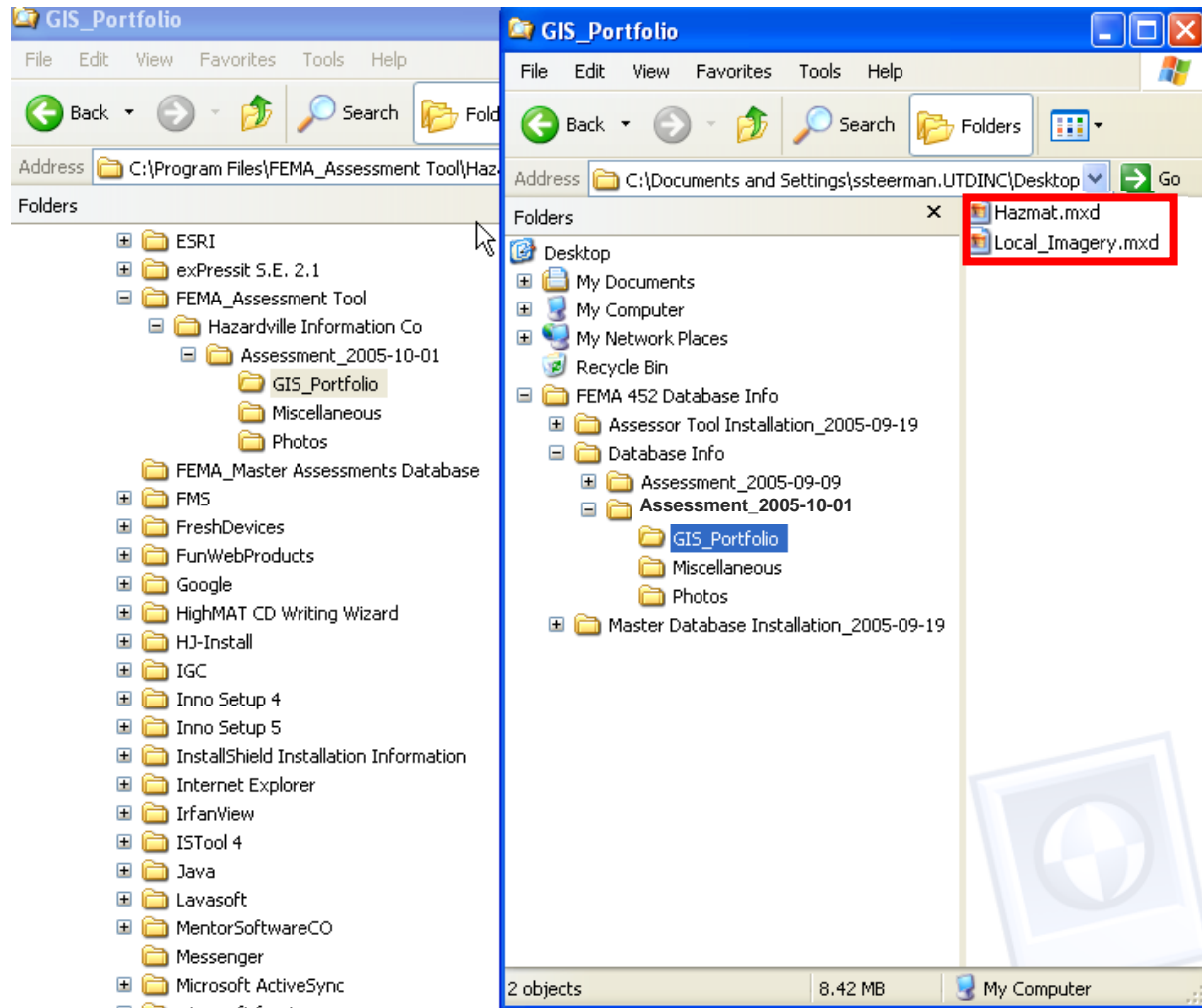
Open a second window with existing data



FEMA

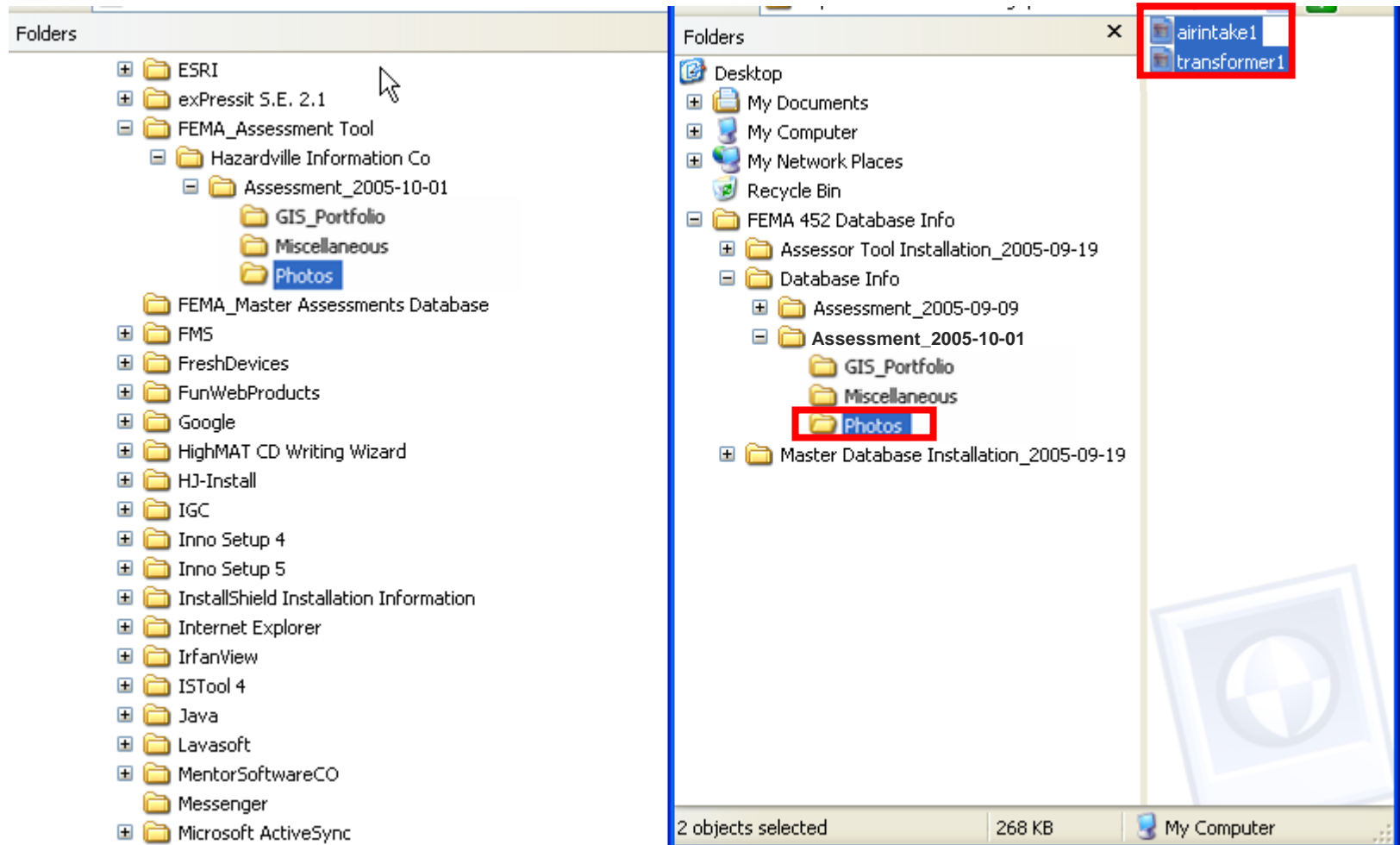


# Load Information



FEMA

# Load Information



FEMA

# Assessor Tool

**Main Menu for Assessors**

FEMA  
FEMA 452: Risk Assessment Database v.2.0 *Assessor's Tool*

Site: **Hazardville Information Co** Assessment Date: 10/1/2005 Assessment Type: Tier 1

Site and Team Information	Checklists	Executive Summary/Vulnerability
Site Information	1 - Site Checklist	Site Executive Summary
<b>Site Assessment Team</b>	2 - Architectural	Site Vulnerabilities
Site Points of Contact	3 - Structural	
	4 - Building Envelope	
	5 - Utility Systems	
	6 - Mechanical Systems	
	7 - Plumbing and Gas	
	8 - Electrical Systems	
	9 - Fire Alarm Systems	Import Checklist
	10 - Communications and IT Systems	
	11 - Equipment Operations and Maintenance	
	12 - Security	
	13 - Security Master Plan	

Threat Matrices

Critical Function Matrix
Critical Infrastructure Matrix

*In association with the Department of Veterans Affairs. Copyright Pending*



FEMA

# Add Team Members

**Assessment Main Page**

Site Name:  Default Image:

Assessment Location:

Assessment Date:  Type:

No Image Available

Executive Summary | Vulnerabilities | Points of Contact | **Assessment Team** | Add Photos | Photos | Add GIS Portfolio Images | GIS Portfolio | Miscellaneous Files

Team Member	Title	Organization	Work Phone	Mobile Phone	Email
-------------	-------	--------------	------------	--------------	-------

Select Team Member from List | **Add New Team Member** | Undo Team Member Record

Record:

Close



FEMA

# Add Team Members

Add a new person to this Team

### Add New Person

First Name:

Last Name:

Title:

Company:

Address:

City:

State:

Zip:

Email:

Work Phone:

Mobile Phone:

Entered By:

Enter Date:

Modified By:

Modify Date:



FEMA

# Team Members

**Assessment Main Page**

Site Name:  Default Image:

Assessment Location:

Assessment Date:  Type:

Executive Summary | Vulnerabilities | Points of Contact | **Assessment Team** | Add Photos | Photos | Add GIS Portfolio Images | GIS Portfolio | Miscellaneous Files

Team Member	Title	Organization	Work Phone	Mobile Phone	Email
▶ Smith, John	Senior Assessor	ABC Inc	(123) 456-7890		Jsmith@abcinc.com

Select Team Member from List | **Add New Team Member** | Undo Team Member Record

Record:  of 1

Close



FEMA

# Add Point of Contact

**Assessment Main Page**

Site Name:  Default Image:

Assessment Location:

Assessment Date:  Type:

No Image Available

Executive Summary | Vulnerabilities | **Points of Contact** | Assessment Team | Add Photos | Photos | Add GIS Portfolio Images | GIS Portfolio | Miscellaneous Files

First Name	Last Name	Title	Organization	Address	City	State	Zip
------------	-----------	-------	--------------	---------	------	-------	-----

Record:



FEMA

# Add Point of Contact

**Assessment Main Page**

Site Name:  Default Image:

Assessment Location:

Assessment Date:  Type:

Executive Summary | Vulnerabilities | **Points of Contact** | Assessment Team | Add Photos | Photos | Add GIS Portfolio Images | GIS Portfolio | Miscellaneous Files

	Address	City	State	Zip	Work Phone	Mobile Phone	Email
	1234 B Street	Hazardville	AK	12345	(123) 456-7890		Jdirte@hazinfoco.com

Record:  of 1



FEMA



# Add Photos

Assessment Main Page

Site Name: Hazardville Information Co      Default Image:

Assessment Location: Hazardville Administrative Building

Assessment Date: 10/1/2005      Type: Tier 1

No Image Available

Executive Summary   Vulnerabilities   Points of Contact   Assessment Team   **Add Photos**   Photos   Add GIS Portfolio Images   GIS Portfolio   Miscellaneous Files

File Name	Comments for this assessment
airintake1.jpg	
transformer1.jpg	

Record: 1 of 2

Close

**Microsoft Access**

Attached 2 photos to this ASSESSMENT!

OK



FEMA

# Add Photos

**Assessment Main Page**






Site Name:  Default Image:

Assessment Location:

Assessment Date:  Type:

No Image Available

Executive Summary | Vulnerabilities | Points of Contact | Assessment Team | Add Photos | **Photos** | Add GIS Portfolio Images | GIS Portfolio | Miscellaneous Files

				
Image #: 1	Image #: 2	Image #:	Image #:	Image #:
<input type="text" value="airintakel.jpg"/>	<input type="text" value="transformer1.jpg"/>			

(2 images total)





FEMA

# Add Photos

**Photo Zoom**

Description: n/a      Photo Comments: n/a



Zoom (Stretch Proportionally)      Clip (Actual size without scroll bars)      View with IE (Actual size with scroll bars)       Close



**FEMA**

# Add GIS Images

Assessment Main Page

Site Name: Hazardville Information Co      Default Image:

Assessment Location: Hazardville Administrative Building

Assessment Date: 10/1/2005    Type: Tier 1

No Image Available

Executive Summary   Vulnerabilities   Points of Contact   Assessment Team   Add Photos   Photos   **Add GIS Portfolio Images**   GIS Portfolio   Miscellaneous Files

File Name	Comments for this assessment
Hazmat.mxd.jpg	
Local_Imagery.mxd.jpg	

Microsoft Access

Added 2 Portfolio Images to the GIS Portfolio)

OK

**Add GIS Portfolio Images** ?

Record: 1 of 2

Close



FEMA

# Add GIS Images

**Assessment Main Page**

Site Name:  Default Image:

Assessment Location:

Assessment Date:  Type:

No Image Available

Executive Summary | Vulnerabilities | Points of Contact | Assessment Team | Add Photos | Photos | Add GIS Portfolio Images | **GIS Portfolio** | Miscellaneous Files

Image #: <input type="text"/>	Image #: <input type="text"/>	Image #: <input type="text"/>	Image #: <input type="text"/>	Image #: <input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Load GIS**   (4 images total)

Close



FEMA

# Add GIS Images

**Assessment Main Page**






Site Name:  Default Image:

Assessment Location:

Assessment Date:  Type:

No Image Available

Executive Summary | Vulnerabilities | Points of Contact | Assessment Team | Add Photos | Photos | Add GIS Portfolio Images | GIS Portfolio | Miscellaneous Files

				
Image #: 1 Hazmat.mxd.jpg	Image #: 2 Local_Imagery.mxd.jpg	Image #:	Image #:	Image #:

(2 images total)



FEMA

# Add Miscellaneous Files

Assessment Main Page

Site Name: Hazardville Information Co Default Image:

Assessment Location: Hazardville Administrative Building

Assessment Date: 10/1/2005 Type: Tier 1

No Image Available

Executive Summary Vulnerabilities Points of Contact Assessment Team Add Photos Photos Add GIS Portfolio Images GIS Portfolio **Miscellaneous Files**

Folder Type	File Name	File Description	File Size	File Date	Enter Date

**Add Miscellaneous Files** ? \*\*\* Double click "File Name" of desired file to open. \*\*\*

Record: 1 of 1

Close

\* Same as photos and GIS images



FEMA

# Threat Matrices

Main Menu for Assessors

FEMA

FEMA 452: Risk Assessment Database v.2.0 *Assessor's Tool*

Site: Hazardville Information Co Assessment Date: 10/1/2005 Assessment Type: Tier 1

Site and Team Information

Checklists

Executive Summary/Vulnerability

Site Information

Site Assessment Team

Site Points of Contact

1- Site Checklist

2 - Architectural

3 - Structural

4 - Building Envelope

5 - Utility Systems

6 - Mechanical Systems

7 - Plumbing and Gas

8 - Electrical Systems

9 - Fire Alarm Systems

10 - Communications and IT Systems

11- Equipment Operations and Maintenance

12 - Security

13- Security Master Plan

Site Executive Summary

Site Vulnerabilities

Import Checklist

Threat Matrices

Critical Function Matrix

Critical Infrastructure Matrix

In association with the Department of Veterans Affairs. Copyright Pending



FEMA






# Critical Functions Matrix

Threats 

Functions 

Critical Functions Matrix																														
Site Name:		Hazardville Information Co.				AssessmentDate:				10/01/2005				AssessmentType:				Tier 1												
TR: Threat Rating		Improvised Explosive Device (Bomb)				Chemical Agent				Arson/Incendiary Attack				Armed Attack				Biological Agent				Cyberterrorism				Agriterr				
AV: Asset Value		TR				TR				TR				TR				TR				TR								
VR: Vulnerability Rating		AV				AV				AV				AV				AV				AV								
Risk		VR				VR				VR				VR				VR				VR								
No.	Critical Function	TR	AV	VR	Risk	TR	AV	VR	Risk	TR	AV	VR	Risk	TR	AV	VR	Risk	TR	AV	VR	Risk	TR	AV	VR	Risk					
1	Administration	6	4	8	192	4	4	8	128	0	0	0	0	3	4	8	96	4	4	8	128	6	4	8	192	0	0	0	0	
2	Engineering	6	5	8	240	4	5	8	160	0	0	0	0	3	5	8	120	4	5	8	160	5	5	8	200	0	0	0	0	
3	Warehousing	6	5	8	240	4	5	8	160	0	0	0	0	3	5	3	45	4	5	8	160	5	5	2	50	0	0	0	0	
4	Data Center	6	10	8	480	4	10	8	320	0	0	0	0	3	10	3	90	4	10	8	320	9	10	9	810	0	0	0	0	
5	Food Service	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	Security	6	7	8	336	4	7	8	224	0	0	0	0	3	7	3	63	4	7	8	224	5	7	3	105	0	0	0	0	
7	Housekeeping	6	1	8	48	4	1	8	32	0	0	0	0	3	1	1	3	4	1	8	32	2	1	1	2	0	0	0	0	
8	Day Care	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Other CF-1	6	8	8	384	4	8	8	256	0	0	0	0	3	8	3	72	4	8	8	256	5	8	8	320	0	0	0	0	
10	Other CF-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Other CF-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	Other CF-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Other CF-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Other CF-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Asset Value** 1- 10  
**Threat Rating** 1- 10  
**Vulnerability Rating** 1- 10

 Low risk (1-60)  
 Medium risk (61-175)  
 High risk (> 175)



FEMA

# Threat Matrices

Main Menu for Assessors

FEMA

FEMA 452: Risk Assessment Database v.2.0

Assessor's Tool

Site: Hazardville Information Co

Assessment Date: 10/1/2005

Assessment Type: Tier 1

Site and Team Information

Checklists

Executive Summary/Vulnerability

Site Information

Site Assessment Team

Site Points of Contact

1- Site Checklist

2 - Architectural

3 - Structural

4 - Building Envelope

5 - Utility Systems

6 - Mechanical Systems

7 - Plumbing and Gas

8 - Electrical Systems

9 - Fire Alarm Systems

10 - Communications and IT Systems

11- Equipment Operations and Maintenance

12 - Security

13- Security Master Plan

Site Executive Summary

Site Vulnerabilities

Import Checklist

Threat Matrices

Critical Function Matrix

Critical Infrastructure Matrix

In association with the Department of Veterans Affairs.

Copyright Pending



FEMA

# Critical Infrastructure Matrix

Threats →

Infrastructure ↓

**Critical Infrastructure Matrix**

Site Name: Hazardville Information Co.    Assessment Date: 10/01/2005    Assessment Type: Tier 1

TR: Threat Rating    AV: Asset Value    VR: Vulnerability Rating

Legend:   
■ Low Risk (1-60)   
■ Medium Risk (61-175)   
■ High Risk (>175)

No.	Critical Infrastructure	Improvised Explosive Device (Bomb)				Chemical Agent				Arson/Incendiary Attack				Armed Attack				Biological Agent				Cyberterrorism				Agriterrorism				TF				
		TR	AV	VR	Risk	TR	AV	VR	Risk	TR	AV	VR	Risk	TR	AV	VR	Risk	TR	AV	VR	Risk	TR	AV	VR	Risk	TR	AV	VR	Risk					
1	Site	6	5	8	240	4	5	8	160	0	0	0	0	3	5	8	120	4	5	8	160	1	5	3	15	0	0	0	0	0	0	0	0	
2	Architectural	6	5	8	240	4	5	4	80	0	0	0	0	3	5	8	120	4	5	4	80	1	5	3	15	0	0	0	0	0	0	0	0	
3	Structural Systems	6	5	8	240	4	5	3	60	0	0	0	0	3	5	8	120	4	5	3	60	1	5	3	15	0	0	0	0	0	0	0	0	
4	Envelope Systems	6	5	8	240	4	5	3	60	0	0	0	0	3	5	8	120	4	5	3	60	1	5	3	15	0	0	0	0	0	0	0	0	
5	Utility Systems	6	5	6	180	4	5	3	60	0	0	0	0	5	5	7	175	4	5	3	60	3	5	5	75	0	0	0	0	0	0	0	0	
6	Mechanical Systems	4	7	8	224	4	7	7	196	0	0	0	0	5	7	7	245	4	7	7	196	3	7	5	105	0	0	0	0	0	0	0	0	
7	Plumbing and Gas Systems	4	5	8	160	4	5	5	100	0	0	0	0	3	5	8	120	4	5	5	100	2	5	3	30	0	0	0	0	0	0	0	0	
8	Electrical Systems	4	7	8	224	4	7	5	140	0	0	0	0	3	7	7	147	4	7	5	140	3	7	5	105	0	0	0	0	0	0	0	0	
9	Fire Alarm Systems	4	5	8	160	4	5	3	60	0	0	0	0	3	5	3	45	4	5	3	60	2	5	3	30	0	0	0	0	0	0	0	0	
10	IT/Communications Systems	4	10	8	320	4	10	6	240	0	0	0	0	3	10	8	240	4	10	6	240	10	10	10	1000	0	0	0	0	0	0	0	0	
11	Other CI-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	Other CI-2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Other CI-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14	Other CI-4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15	Other CI-5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16	Other CI-6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	Other CI-7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	Other CI-8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	Other CI-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Rollup    Close

Asset Value                    1- 10  
 Threat Rating                1- 10  
 Vulnerability Rating        1- 10

■ Low risk (1-60)  
■ Medium risk (61-175)  
■ High risk (> 175)



FEMA

# Checklists

**Main Menu for Assessors**

FEMA

FEMA 452: Risk Assessment Database v.2.0 *Assessor's Tool*

Site: Hazardville Information Co Assessment Date: 10/1/2005 Assessment Type: Tier 1

**Site and Team Information**

- Site Information
- Site Assessment Team
- Site Points of Contact

**Checklists**

- 1 - Site Checklist
- 2 - Architectural
- 3 - Structural
- 4 - Building Envelope
- 5 - Utility Systems
- 6 - Mechanical Systems
- 7 - Plumbing and Gas
- 8 - Electrical Systems
- 9 - Fire Alarm Systems
- 10 - Communications and IT Systems
- 11 - Equipment Operations and Maintenance
- 12 - Security
- 13 - Security Master Plan

**Executive Summary/Vulnerability**

- Site Executive Summary
- Site Vulnerabilities
- Import Checklist

**Threat Matrices**

- Critical Function Matrix
- Critical Infrastructure Matrix

*In association with the Department of Veterans Affairs.* *Copyright Pending*



FEMA

# Site Checklist

**Observations and Recommendations/Remediations for Section Heading: Site**

Site Name: Hazardville Information Co. Type: Tier 1

Q#	Observation	Recommendation/Remediation	Vuln?	Vulnerability Assessment Question	Guidance
1-1	Two Critical Hazard Facilities within 2 mile and a dozen Tier II HAZMAT Facilities within 3 miles. Major interstate highway within 1/4 mile. Two railroads have tracks within 1/2 mile with no restrictions on materials carried. Four nearby buried long-distance	Collateral effects of attacks or accidents impact HIC similar to CBR attacks. See recommendations for HVAC systems.		What major structures surround the facility (site or building(s))? -- What critical infrastructure, government, military, or recreation facilities are in the local area that impact transportation, utilities, and collateral damage (attack at this facility impacting	Critical infrastructure to consider includes: - Telecommunications infrastructure - Facilities for broadcast TV, cable TV; cellular networks; newspaper offices, production, and distribution; radio stations; satellite base stations; telephone trunking and
1-2	The site is above the tank farm and the rear parking area slopes away from the building to a stream, which allows winds to pass over the structure unhindered.	None.		Does the terrain place the building in a depression or low area?	Depressions or low areas can trap heavy vapors, inhibit natural decontamination by prevailing winds, and reduce the effectiveness of in-place sheltering. - Reference: USAF Installation Force Protection Guide
1-3	With a loading dock on the west side, it is possible for vehicles to park right next to the building. Normal parking for employees is in front; the closest row is 44 feet from the front door.	Increased stand-off or increased access control is needed to reduce risk of vehicle-borne improvised explosive device. Any action will require coordination with Business Park Management and other tenants due to impacts on the overall business park	✓	In dense, urban areas, does curb lane parking place uncontrolled parked vehicles unacceptably close to a building in public rights-of-way?	Where distance from the building to the nearest curb provides insufficient setback, restrict parking in the curb lane. For typical city streets this may require negotiating to close the curb lane. Setback is common terminology for the distance between a building and

Record: 3 of 23 (Filtered) Close



FEMA

# Checklists

**Main Menu for Assessors**

FEMA

FEMA 452: Risk Assessment Database v.2.0 *Assessor's Tool*

Site: Hazardville Information Co Assessment Date: 10/1/2005 Assessment Type: Tier 1

**Site and Team Information**

- Site Information
- Site Assessment Team
- Site Points of Contact

**Checklists**

- 1 - Site Checklist
- 2 - Architectural
- 3 - Structural
- 4 - Building Envelope
- 5 - Utility Systems
- 6 - Mechanical Systems
- 7 - Plumbing and Gas
- 8 - Electrical Systems
- 9 - Fire Alarm Systems
- 10 - Communications and IT Systems
- 11 - Equipment Operations and Maintenance
- 12 - Security
- 13 - Security Master Plan

**Executive Summary/Vulnerability**

- Import Checklist

All launch similar checklists with places to enter observations and recommendations / remediations


In association with the Department of Veterans Affairs. Copyright Pending



FEMA

# Executive Summary

**Main Menu for Assessors**

 **FEMA**

**FEMA 452: Risk Assessment Database v.2.0** *Assessor's Tool*

**Site:** Hazardville Information Co **Assessment Date:** 10/1/2005 **Assessment Type:** Tier 1

Site and Team Information	Checklists	Executive Summary/Vulnerability
<a href="#">Site Information</a>	<a href="#">1 - Site Checklist</a>	<a href="#">Site Executive Summary</a>
<a href="#">Site Assessment Team</a>	<a href="#">2 - Architectural</a>	<a href="#">Site Vulnerabilities</a>
<a href="#">Site Points of Contact</a>	<a href="#">3 - Structural</a>	
	<a href="#">4 - Building Envelope</a>	
	<a href="#">5 - Utility Systems</a>	
	<a href="#">6 - Mechanical Systems</a>	
	<a href="#">7 - Plumbing and Gas</a>	
	<a href="#">8 - Electrical Systems</a>	
	<a href="#">9 - Fire Alarm Systems</a>	<a href="#">Import Checklist</a>
	<a href="#">10 - Communications and IT Systems</a>	
	<a href="#">11 - Equipment Operations and Maintenance</a>	
	<a href="#">12 - Security</a>	
	<a href="#">13 - Security Master Plan</a>	

**Threat Matrices**

<a href="#">Critical Function Matrix</a>
<a href="#">Critical Infrastructure Matrix</a>

*In association with the Department of Veterans Affairs.* *Copyright Pending*



**FEMA**

# Executive Summary Tab

**Assessment Main Page**

Site Name: Hazardville Information Co.      Default Image:

Assessment Location: Hazardville Admin

Assessment Date: 10/1/2005      Type: Tier 1

No Image Available

Executive Summary   Vulnerabilities   Points of Contact   Assessment Team   Add Photos   Photos   Add GIS Portfolio Images   GIS Portfolio   Miscellaneous Files

Introduction	Observations	Recommendations/Remediations
<p>▶ Hazardville Information Company (HIC) is a state-of-the-art information technology (IT) services company located in a major metropolitan city in a typical suburban business office park. The company's mission is to provide information technology and services support to include hosting servers, databases, applications, and other hardware and software; develop, install, and maintain software applications; provide field support IT technicians; and provide 24-hour help desk support.</p> <p>HIC has over 20 clients and supports approximately 1,000 users and 100 applications as a primary data center and as a disaster recovery site. HIC clients include:</p>	<p>Due to standard business office park construction, HIC is vulnerable to terrorist attacks and technological accidents both as the targeted facility and as collateral damage.</p> <p>There are limited procedural changes available to provide protection. Each attack possibility has a set of measures that can be prioritized and applied to mitigate that attack and reduce the risk from other attacks as well.</p>	<p>The owner has agreed to work with a recommended set of design basis threats (DBT) and consider GSA and DoD facility levels of protection criteria. Access control of vehicles would be the primary deterrent for vehicle-borne improvised explosive devices.</p> <p>While Chemical, Biological, Radiological (CBR) attacks are at a risk level to consider, proximity to transportation, storage, and other HAZMAT sites indicates that CBR considerations would also provide protection against technological accidents. There are also measures to take from a COOP (Continuity of Operations Plans) perspective as this is a backup facility for other data centers.</p>

Record: 1 of 1

Close



FEMA



# Vulnerabilities

**Main Menu for Assessors**

FEMA

FEMA 452: Risk Assessment Database v.2.0 *Assessor's Tool*

Site: Hazardville Information Co Assessment Date: 10/1/2005 Assessment Type: Tier 1

**Site and Team Information**

- Site Information
- Site Assessment Team
- Site Points of Contact

**Checklists**

- 1 - Site Checklist
- 2 - Architectural
- 3 - Structural
- 4 - Building Envelope
- 5 - Utility Systems
- 6 - Mechanical Systems
- 7 - Plumbing and Gas
- 8 - Electrical Systems
- 9 - Fire Alarm Systems
- 10 - Communications and IT Systems
- 11 - Equipment Operations and Maintenance
- 12 - Security
- 13 - Security Master Plan

**Executive Summary/Vulnerability**

- Site Executive Summary
- Site Vulnerabilities
- Import Checklist

**Threat Matrices**

- Critical Function Matrix
- Critical Infrastructure Matrix

*In association with the Department of Veterans Affairs.* *Copyright Pending*



FEMA

# Vulnerabilities and Recommendations

Assessment Main Page

**Remediations**

Building No	Vulnerability	Priority	Recommendation/Remediation
Hazardville Admin	With a loading dock on the west side, it is possible for vehicles to park right next to the building. Normal parking for employees is in front; the closest row is 44 feet from the	2	Increased stand-off or increased access control is needed to reduce risk of vehicle-borne improvised explosive device. Any action will require coordination with Business Park Management and

Action	Date	Cost	Comments
Initial		\$0	
Planned		\$0	
Underway		\$0	
Completed		\$0	

[Close](#)

	side). In that area the fenestration is probably more than 40%. The window		of the frame and silicone sealant and fragmentation retention film should be added to the glass	4-2**
--	--	--	---	-------

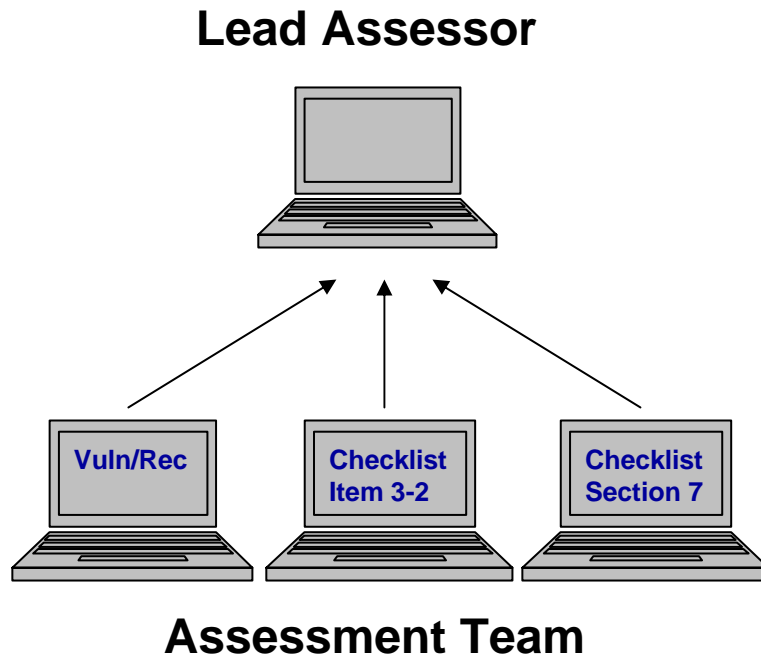
Record: 1 of 3

[Close](#)



FEMA

# Assessment Team Import Function



- Establish a link to a team member's database
- Open the remote database
- Import Observation, Recommendation/Remediation, or Vulnerability entries

The assessment team members to combine their data into one database file on one computer at the end of the assessment.



**FEMA**

# Import Assessments

The screenshot shows the 'Assessor's Tool' interface with the following elements:

- Open Dialog:** Shows 'Look in: Temp'.
- frmSiteAssessments\_Remote:** Displays 'Assessments Available for Import From: C:\Temp\AssessorTool.mde'. A table lists assessments with 'Hazardville Information C' selected.
- Microsoft Office Access Dialog:** Shows 'Connection made. 216 Checklist records 1 Vulnerability records available for Viewing/Copying.' with an 'OK' button highlighted.
- Table Data:**

Site Name	Assessment Date	Type
Hazardville Information C	3/14/2006	Tier 1
Example site 2	2/2/2006	Tier 2
Example site 3	6/6/2006	Tier 3

Buttons: 'Select Assessment' (highlighted), 'OK' (highlighted), 'Cancel'.



FEMA

# Assessment Team Import Function

Main Menu for Assessors

Observations and Recommendations/Remediations for Section Heading: Site

Site Name: Hazardville Information Company      Type: Tier 1

Open Remote Data: C:\temp\AssessorTool.mde

Q#	Observation	Recommendation/Remediation	Vuln?	Vulnerability Assessment Question	Guidance
1-1			<input type="checkbox"/>	What major structures surround the facility (site or building(s))? -- What critical infrastructure, government, military, or recreation facilities are in the local area that impact transportation, utilities, and collateral damage (attack at this facility impacting	Critical infrastructure to consider includes: - Telecommunications infrastructure - Facilities for broadcast TV, cable TV; cellular networks; newspaper offices, production, and distribution; radio stations; satellite base stations: telephone trunking and
1-2			<input type="checkbox"/>	Does the terrain place the building in a depression or low area?	Depressions or low areas can trap heavy vapors, inhibit natural decontamination by prevailing winds, and reduce the effectiveness of in-place sheltering. - Reference: USAF Installation Force Protection Guide
1-3			<input type="checkbox"/>	In dense, urban areas, does curb lane parking place uncontrolled parked vehicles unacceptably close to a building in public rights-of-way?	Where distance from the building to the nearest curb provides insufficient setback, restrict parking in the curb lane. For typical city streets this may require negotiating to close the curb lane. Setback is common terminology for the distance between a building and

Record: 1 of 23 (Filtered)

Close

Critical Infrastructure Matrix      13- Security Master Plan

In association with the Department of Veterans Affairs.      Copyright Pending



FEMA

# Assessment Team Import Function

Observations Details from the REMOTE DATABASE

Site Name: Hazardville Information Company

Copy Record	Q#	Observation	Recommendation/Remediation	Vuln?
<input type="checkbox"/>	1-1	Two Critical Hazard Facilities within 2 mile and a dozen Tier II HAZMAT Facilities within 3 miles. Major interstate highway within 1/4 mile. Two railroads have tracks within 1/2 mile with no restrictions on materials carried. Four nearby buried long-distance	Collateral effects of attacks or accidents impact HIC similar to CBR attacks. See recommendations for HVAC systems.	<input type="checkbox"/>
<input type="checkbox"/>	1-2	The site is above the tank farm and the rear parking area slopes away from the building to a stream, which allows winds to pass over the structure unhindered.	None.	<input type="checkbox"/>
<input type="checkbox"/>	1-3	With a loading dock on the west side, it is possible for vehicles to park right next to the building. Normal parking for employees is in front; the closest row is 44 feet from the front door.	Increased stand-off or increased access control is needed to reduce risk of vehicle-borne improvised explosive device. Any action will require coordination with Business Park Management and other tenants due to impacts on the overall business park.	<input checked="" type="checkbox"/>

Copy and OVERWRITE  
 Copy and APPEND

Select All       

Record: 1 of 23 (Filtered)



FEMA

# Close Assessor Tool

**Main Menu for Assessors**

**FEMA**

**FEMA 452: Risk Assessment Database v.2.0** *Assessor's Tool*

**Site:** Hazardville Information Co **Assessment Date:** 10/1/2005 **Assessment Type:** Tier 1

Site and Team Information	Checklists	Executive Summary/Vulnerability
Site Information	1 - Site Checklist	Site Executive Summary
Site Assessment Team	2 - Architectural	Site Vulnerabilities
Site Points of Contact	3 - Structural	
	4 - Building Envelope	
	5 - Utility Systems	
	6 - Mechanical Systems	
	7 - Plumbing and Gas	
	8 - Electrical Systems	
	9 - Fire Alarm Systems	Import Checklist
	10 - Communications and IT Systems	
	11 - Equipment Operations and Maintenance	
	12 - Security	
	13 - Security Master Plan	

**Threat Matrices**

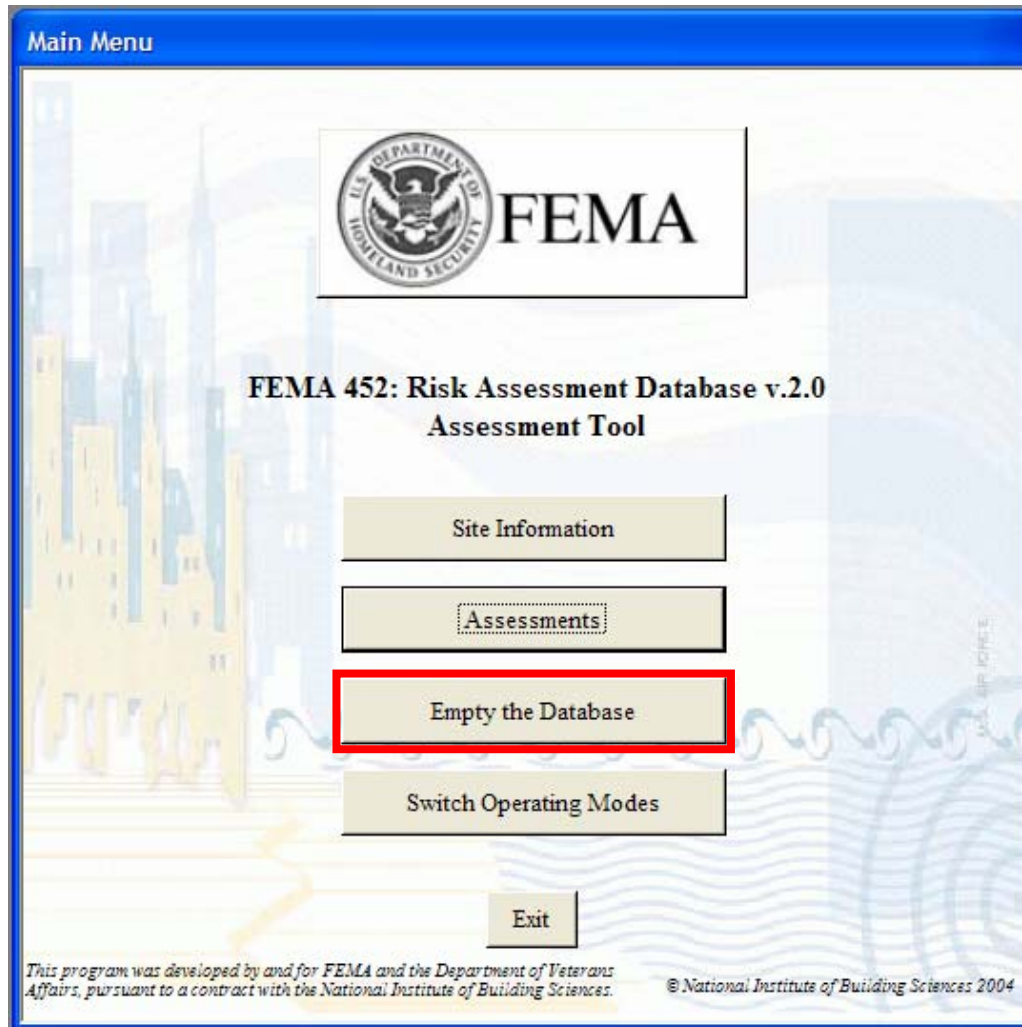
Critical Function Matrix
Critical Infrastructure Matrix

*In association with the Department of Veterans Affairs.* *Copyright Pending*



**FEMA**

# Empty Database



FEMA



# Switch to Master Database



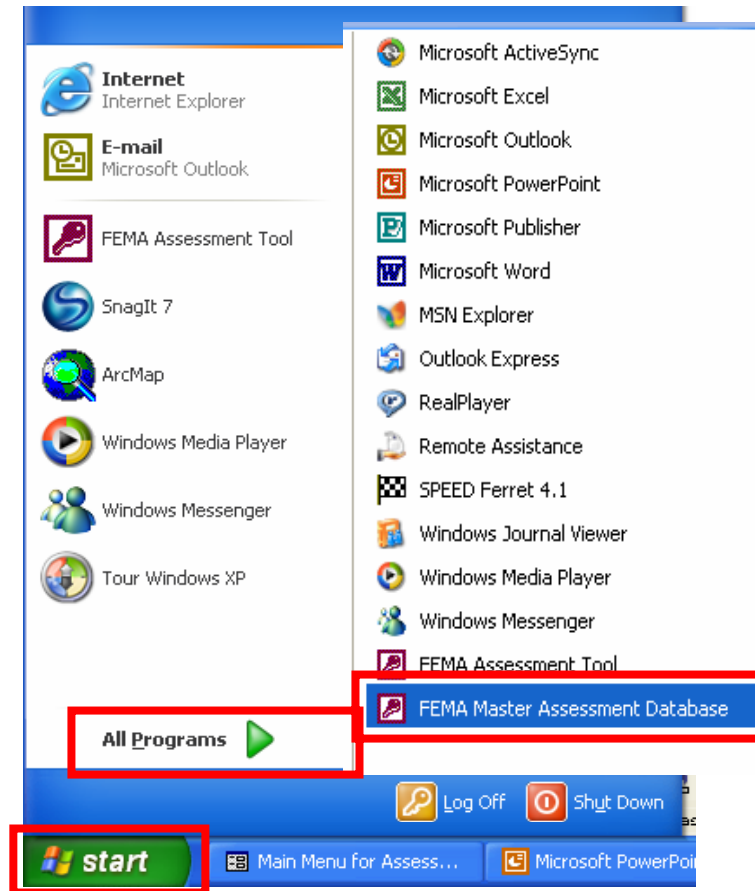
**FEMA**

# Master Database



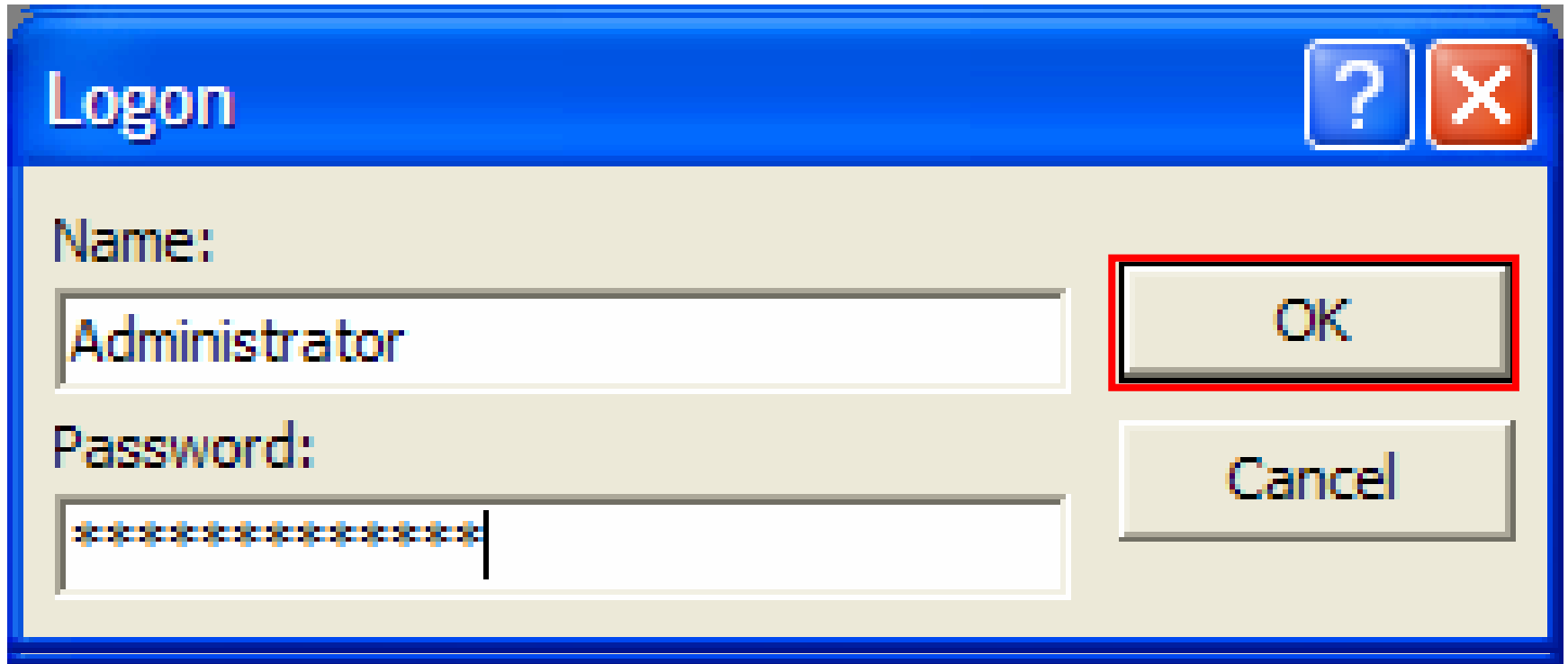
FEMA

# Open Master Database



FEMA

# Login to Master Database



**Logon** [?] [X]

Name:

Password:

**OK**

**Cancel**



**FEMA**

# Master Database



FEMA

# View Checklists

**List of Assessments**

**Assessment Checklists**

Site Name: Hazardville Information Co.  
 Assessment Location: Hazardville Admin  
 Assessment Date: 10/1/2005 Type: Tier 1

Site | Architectural | Structural | Building Envelope | Utilities | Mechanical | Plumbing | Electrical | Fire | Commu/Computers | Equip O&M | Security Systems | Security Plan

Q#	Observation	Recommendation / Remediation	Vulnerability?	Vulnerability Assessment Checklist Question
1-1	Two Critical Hazard Facilities within 2 mile and a dc	Collateral effects of attacks or accidents imp.	<input type="checkbox"/>	What major structures surround the facility (site or buildi
1-2	The site is above the tank farm and the rear parking	None.	<input type="checkbox"/>	Does the terrain place the building in a depression or low
1-3	With a loading dock on the west side, it is possible fi	Increased stand-off or increased access contrc	<input checked="" type="checkbox"/>	In dense, urban areas, does curb lane parking place uncon
1-4			<input type="checkbox"/>	Is a perimeter fence or other types of barrier controls in
1-5			<input type="checkbox"/>	What are the site access points to the site or building?
1-6			<input type="checkbox"/>	Is vehicle traffic separated from pedestrian traffic on the
1-7			<input type="checkbox"/>	Is there vehicle and pedestrian access control at the peri
1-8			<input type="checkbox"/>	Is there space for inspection at the curb line or outside tl
1-9			<input type="checkbox"/>	Is there any potential access to the site or building throu
1-10			<input type="checkbox"/>	What are the existing types of vehicle anti-ram devices i
1-11			<input type="checkbox"/>	What is the anti-ram buffer zone stand-off distance from
1-12			<input type="checkbox"/>	Are perimeter barriers capable of stopping vehicles? -- W

Record: 1 of 23

View All Site Observations | View All Site Vulnerability Assessment Questions | **Close**

Record: 1 of 1



FEMA

# Reports

FEMA 452: Risk Assessment Database v2.0 - [Vulnerability Report without Costs]

Help

Type a question for help

File - Close Report

## Vulnerabilities and Recommendations

Priority	Building Number	Vulnerability	Recommendation/Remediation
1	Hazardville Admin	All windows are in the office space area of the building (all the front and half of one side). In that area the fenestration is probably more than 40%. The window system is standard commercial installation and thus, the glass, framing and anchorage are expected to be insufficient for the design basis threat.	For balanced performance, the anchorage of the windows should be improved for the blast capability of the frame and silicone sealant and fragmentation retention film should be added to the glass.
2	Hazardville Admin	With a loading dock on the west side, it is possible for vehicles to park right next to the building. Normal parking for employees is in front, the closest row is 44 feet from the front door.	Increased stand-off or increased access control is needed to reduce risk of vehicle-borne improvised explosive device. Any action will require coordination with Business Park Management and other tenants due to impacts on the overall business park. For example, increase distance to first parking space to 80 feet by closing off nearby parking, control access to rear of building, or use reserved parking spaces in front of building anywhere within 80 feet of building.
3	Hazardville Admin	The loading dock connects directly into the interior space, critical functions, and infrastructure.	There is little that can be done for the loading dock directly. Access control already required for other vulnerabilities will be beneficial in keeping threats away from the loading dock and reducing risk.

Page 1

Page: 1



FEMA

# Reports

## Executive Summary

### Introduction

Hazardville Information Company (HIC) is a state-of-the-art information technology (IT) services company located in a major metropolitan city in a typical suburban business office park. The company's mission is to provide information technology and services support to include hosting servers, databases, applications, and other hardware and software; develop, install, and maintain software applications; provide field support IT technicians; and provide 24-hour help desk support.

HIC has over 20 clients and supports approximately 1,000 users and 100 applications as a primary data center and as a disaster recovery site. HIC clients include local and regional government offices and commercial entities along with large prime defense contractors and Federal government agencies. HIC handles unclassified and classified information.

### Observations

Due to standard business office park construction, HIC is vulnerable to terrorist attacks and technological accidents both as the targeted facility and as collateral damage. There are limited procedural changes available to provide protection. Each attack possibility has a set of measures that can be prioritized and applied to mitigate that attack and reduce the risk from other attacks as well.

### Recommendations / Remediations

The owner has agreed to work with a recommended set of design basis threats (DBT) and consider GSA and DoD facility levels of protection criteria. Access control of vehicles would be the primary deterrent for vehicle-borne improvised explosive devices. While Chemical, Biological, Radiological (CBR) attacks are at a risk level to consider, proximity to transportation, storage, and other HAZMAT sites indicates that CBR considerations would also provide protection against technological accidents. There are also measures to take from a COOP (Continuity of Operations Plans) perspective as this is a backup facility for other data centers.



# FEMA




# Reports

List of Assessments

Assessment ID	Assessment Location	Organization Name	Assessment Date	Assessment Type	Assessment Folder Name
1	Hazardville Information C	Site Assessment Reports Menu			Assessment_2005-10-01\

Search Clear

**Microsoft Access**

 This will build a stoplight spreadsheet in Excel.  
Are you sure you want to continue?

Yes No Cancel

Close

Executive Summary Vulnerabilities Points of Contact Assessment Team Photos GIS Portfolio Miscellaneous Files

Assessment Checklist Critical Function Critical Infrastructure **Site Reports** Other Reports Help Close

Record: 1 of 1



FEMA

# Threat Matrix

L54		fx 0										
	A	B	C	D	E	F	G	H	I	J	K	
10		5	10									
11	<b>Facility</b>											
12												
13	<b>Core Process/Function</b>			<b>Improvised Explosive Device</b>	<b>Chemical Agent</b>	<b>Arson / Incendiary Attack</b>	<b>Armed Attack</b>	<b>Biological Agent</b>	<b>Cyberterrorism</b>	<b>Agriterrorism</b>	<b>Radiological Agent</b>	
14												
15	Administration			192	128	0	96	128	192	0	128	
16	Threat Rating			6	4	0	3	4	6	0	4	
17	Asset Value			4	4	0	4	4	4	0	4	
18	Vulnerability Rating			8	8	0	8	8	8	0	8	
19	Engineering			240	160	0	120	160	200	0	160	
20	Threat Rating			6	4	0	3	4	5	0	4	
21	Asset Value			5	5	0	5	5	5	0	5	
22	Vulnerability Rating			8	8	0	8	8	8	0	8	
23	Warehousing			240	160	0	48	160	50	0	160	
24	Threat Rating			6	4	0	3	4	5	0	4	
25	Asset Value			5	5	0	5	5	5	0	5	
26	Vulnerability Rating			8	8	0	3	8	2	0	8	
27	Data Center			480	320	0	90	320	80	0	320	
28	Threat Rating			6	4	0	3	4	9	0	4	
29	Asset Value			10	10	0	10	10	10	0	10	
30	Vulnerability Rating			8	8	0	3	8	9	0	8	
31	Food Service			0	0	0	0	0	0	0	0	
32	Threat Rating			0	0	0	0	0	0	0	0	
33	Asset Value			0	0	0	0	0	0	0	0	
34	Vulnerability Rating			0	0	0	0	0	0	0	0	
35	Security			336	224	0	63	224	105	0	224	
36	Threat Rating			6	4	0	3	4	5	0	4	
37	Asset Value			7	7	0	7	7	7	0	7	
38	Vulnerability Rating			8	8	0	3	8	3	0	8	
39	Housekeeping			48	32	0	3	32	2	0	32	
40	Threat Rating			6	4	0	3	4	2	0	4	
41	Asset Value			1	1	0	1	1	1	0	1	
42	Vulnerability Rating			8	8	0	1	8	1	0	8	
43	Day Care			0	0	0	0	0	0	0	0	
44	Threat Rating			0	0	0	0	0	0	0	0	
45	Asset Value			0	0	0	0	0	0	0	0	
46	Vulnerability Rating			0	0	0	0	0	0	0	0	
47	<b>Communications</b>			384	256	0	72	256	320	0	256	
48	Threat Rating			6	4	0	3	4	5	0	4	
49	Asset Value			8	8	0	8	8	8	0	8	
50	Vulnerability Rating			8	8	0	3	8	8	0	8	
51	Other 2			0	0	0	0	0	0	0	0	
52	Threat Rating			0	0	0	0	0	0	0	0	
53	Asset Value			0	0	0	0	0	0	0	0	
54	Vulnerability Rating			0	0	0	0	0	0	0	0	



FEMA

# Threat Matrix

K7		fx										
	A	B	C	D	E	F	G	H	I	J	K	
11	Facility											
12				Improvised	Chemical	Arson / Incendiary	Armed	Biological	Cyberterrorism	Agriterrorism	Radiological	N
13	Critical Infrastructure			Explosive Device	Agent	Attack	Attack	Agent			Agent	C
14												
15	Site			240	160	0	120	160	15	0	160	
16		Threat Rating		6	4	0	3	4	1	0	4	
17		Asset Value		5	5	0	5	5	5	0	5	
18		Vulnerability Rating		8	8	0	8	8	3	0	8	
19	Architectural			240	80	0	120	80	15	0	80	
20		Threat Rating		6	4	0	3	4	1	0	4	
21		Asset Value		5	5	0	5	5	5	0	5	
22		Vulnerability Rating		8	4	0	8	4	3	0	4	
23	Structural Systems			240	60	0	120	60	15	0	60	
24		Threat Rating		6	4	0	3	4	1	0	4	
25		Asset Value		5	5	0	5	5	5	0	5	
26		Vulnerability Rating		8	3	0	8	3	3	0	3	
27	Envelope Systems			240	60	0	120	60	15	0	60	
28		Threat Rating		6	4	0	3	4	1	0	4	
29		Asset Value		5	5	0	5	5	5	0	5	
30		Vulnerability Rating		8	3	0	8	3	3	0	3	
31	Utility Systems			180	60	0	175	60	75	0	60	
32		Threat Rating		6	4	0	5	4	3	0	4	
33		Asset Value		5	5	0	5	5	5	0	5	
34		Vulnerability Rating		6	3	0	7	3	5	0	3	
35	Mechanical Systems			224	196	0	245	196	105	0	196	
36		Threat Rating		4	4	0	5	4	3	0	4	
37		Asset Value		7	7	0	7	7	7	0	7	
38		Vulnerability Rating		8	7	0	7	7	5	0	7	
39	Plumbing and Gas Systems			160	100	0	120	100	30	0	100	
40		Threat Rating		4	4	0	3	4	2	0	4	
41		Asset Value		5	5	0	5	5	5	0	5	
42		Vulnerability Rating		8	5	0	8	5	3	0	5	
43	Electrical Systems			224	140	0	147	140	105	0	140	
44		Threat Rating		4	4	0	3	4	3	0	4	
45		Asset Value		7	7	0	7	7	7	0	7	
46		Vulnerability Rating		8	5	0	7	5	5	0	5	
47	Fire Alarm Systems			160	60	0	45	60	30	0	60	
48		Threat Rating		4	4	0	3	4	2	0	4	
49		Asset Value		5	5	0	5	5	5	0	5	
50		Vulnerability Rating		8	3	0	3	3	3	0	3	
51	IT and Communication Systems			320	240	0	240	240	1000	0	240	
52		Threat Rating		4	4	0	3	4	10	0	4	
53		Asset Value		10	10	0	10	10	10	0	10	
54		Vulnerability Rating		8	6	0	8	6	10	0	6	
55	Other1			0	0	0	0	0	0	0	0	



FEMA

# Other Reports

**Observations and Recommendations/Remediations for Assessment Checklist**

Site Name	Vulnerability Assessment Checklist #	Section Heading	Observation	Recommendation / Remediation
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="button" value="Search"/> <input type="button" value="Clear"/>
▶ Hazardville Information Co.	1-1	Site	Two Critical Hazard Facilities within 2 mile and a dozen Tier II HAZMAT Facilities within 3 miles. Major interstate highway within 1/4 mile. Two railroads	Collateral effects of attacks or accidents impact HIC similar to CBR attacks. See recommendations for HVAC systems.
Hazardville Information Co.	1-2	Site	The site is above the tank farm and the rear parking area slopes away from the building to a stream, which allows winds to pass over the structure unhindered.	None.
Hazardville Information Co.	1-3	Site	With a loading dock on the west side, it is possible for vehicles to park right next to the building. Normal parking for employees is in front; the closest row is	Increased stand-off or increased access control is needed to reduce risk of vehicle-borne improvised explosive device. Any action will require coordination with
Hazardville Information Co.	1-4	Site		
Hazardville Information Co.	1-5	Site		

Record:  of 216



FEMA

# Master Database

Main Menu



FEMA

FEMA 452: Risk Assessment Database v.2.0  
Master Database

Assessments

Vulnerability Assessment Checklist

Administrative Functions

Exit

This program was developed by and for FEMA and the Department of Veterans Affairs, pursuant to a contract with the National Institute of Building Sciences. © National Institute of Building Sciences 2004



FEMA

# Vulnerability Assessment Checklist Search

Ass All Observations and Recommendations/Remediations for this Question

**Vulnerability Assessment Checklist #** 1-1 **Section Header:** Site

**Question** What major structures surround the facility (site or building(s))? -- What critical infrastructure, government, military, or recreation facilities are in the local area that impact transportation, utilities, and collateral damage (attack at this facility impacting the other major structures or attack on the major structures impacting this facility)? -- What are the adjacent land uses immediately outside the perimeter of this facility (site or building(s))? -- Do future development plans change these land uses outside the facility (site or building (s)) perimeter? -- Although this question bridges threat and vulnerability, the threat is the man-made hazard that can occur (likelihood and impact) and the vulnerability is the proximity of the hazard to the building(s) being assessed. Thus, a chemical plant release may be a threat/hazard, but

**Guidance** Critical infrastructure to consider includes: - Telecommunications infrastructure - Facilities for broadcast TV, cable TV, cellular networks; newspaper offices, production, and distribution; radio stations; satellite base stations; telephone trunking and switching stations, including critical cable routes and major rights of way - Electric power systems - Power plants, especially nuclear facilities; transmission and distribution system components; fuel distribution, delivery, and storage - Gas and oil facilities - Hazardous material facilities, oil/gas pipelines and storage facilities - Banking and finance institutions - Financial institutions (banks, credit unions) and the business district: note schedule business/financial district may follow: armored car services - Transportation networks - Airports: carriers, flight paths, and airport

**Comments**

Site Name	Assessment Date	Type	Observation	Recommendation /Remediation	Vulnerability?
Test13	4/7/2006	Tier 2			
Hazardville Information Co	10/1/2005	Tier 1	Hazardville Information Co is located on the I95 corridor in an industrial suburban area. It is adjacent to the Ft	Develop procedures to support the shelter in place planning and protect the facility from a HAZMAT event in the	<input checked="" type="checkbox"/>

Record: 1 of 2

[View Observations](#) [Close](#)

Record: 1 of 1 (Filtered)



FEMA

# Master Database

Main Menu



FEMA

FEMA 452: Risk Assessment Database v.2.0  
Master Database

Assessments

Vulnerability Assessment Checklist

Administrative Functions

Exit

This program was developed by and for FEMA and the Department of Veterans Affairs, pursuant to a contract with the National Institute of Building Sciences. © National Institute of Building Sciences 2004



FEMA

# Master Database: Erasing One or All Assessments

**Administrative Functions Menu**

**Administrative Functions Menu**

**Risk Assessment Database**

Empty the Database

Delete an Assessment

Import Assessor Database

Switch Operating Modes

Close

**List of Assessments**

Assessment ID	Assessment Location
1	Test13
2	Hazardville Informat

Delete this

Record: 1

Assessment Folder Name

ent\_2006-04-07\

ent\_2005-10-01\

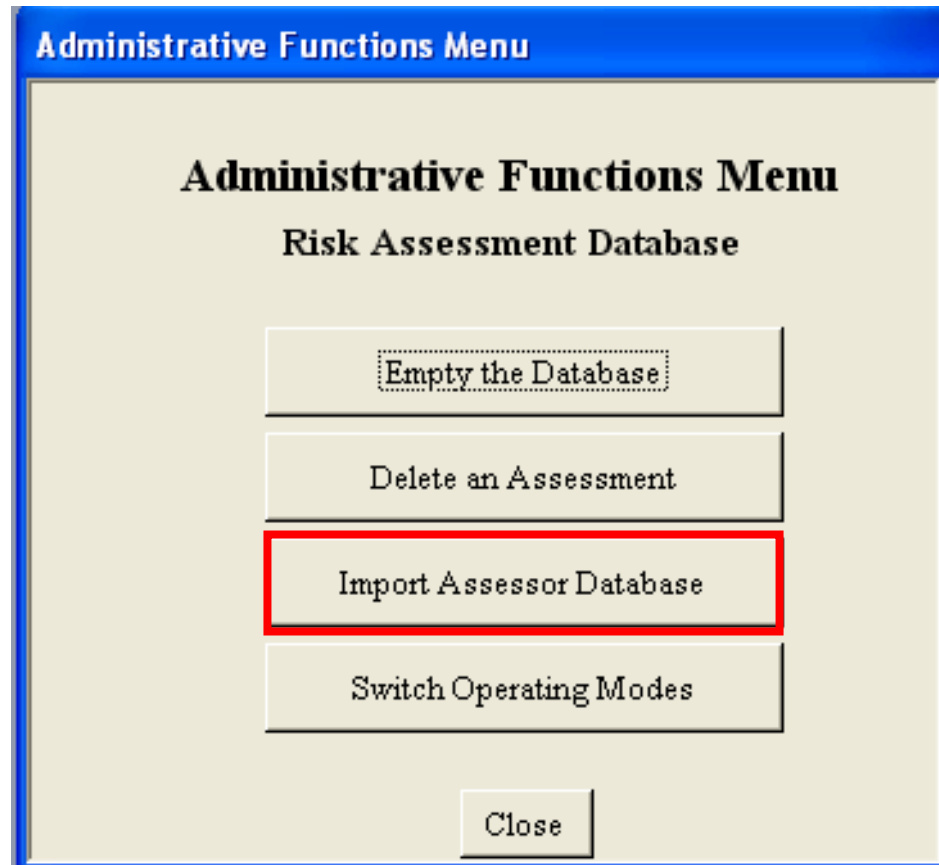
Close



FEMA

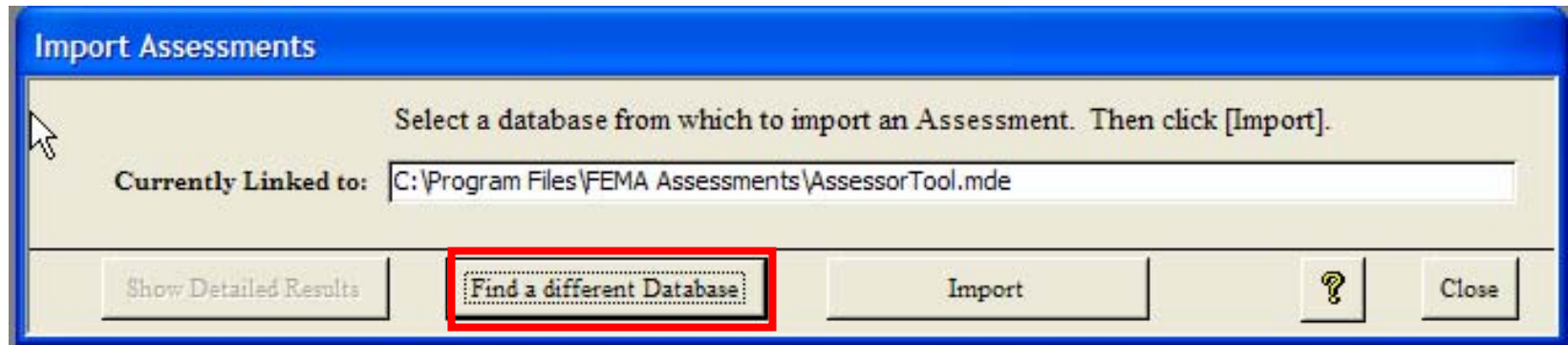


# Master Database: Import Function



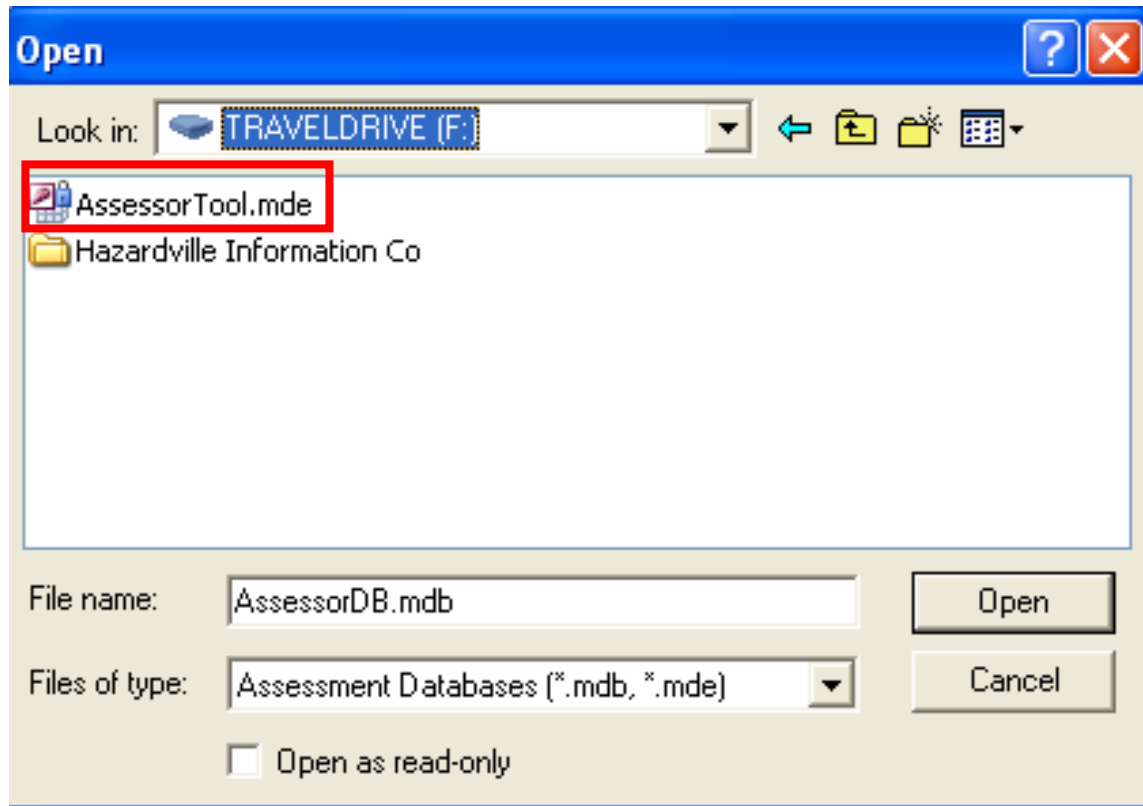
FEMA

# Master Database: Import Function



FEMA

# Master Database: Import Function



FEMA

# Master Database: Import Function

**Import Assessments**

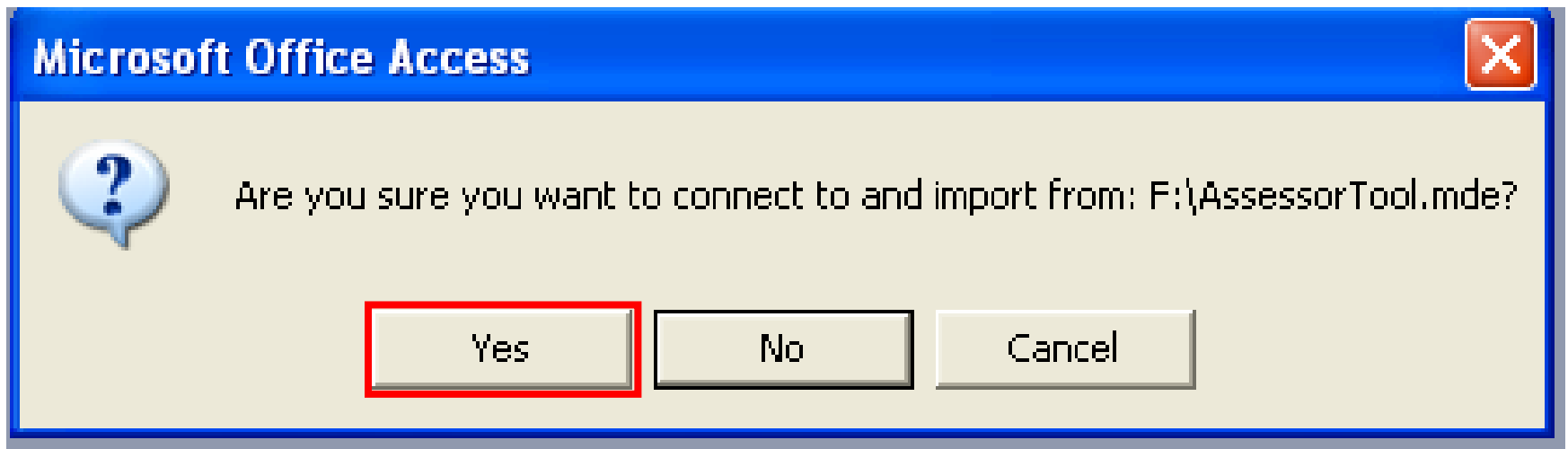
Select a database from which to import an Assessment. Then click [Import].

**Link and Import from:**



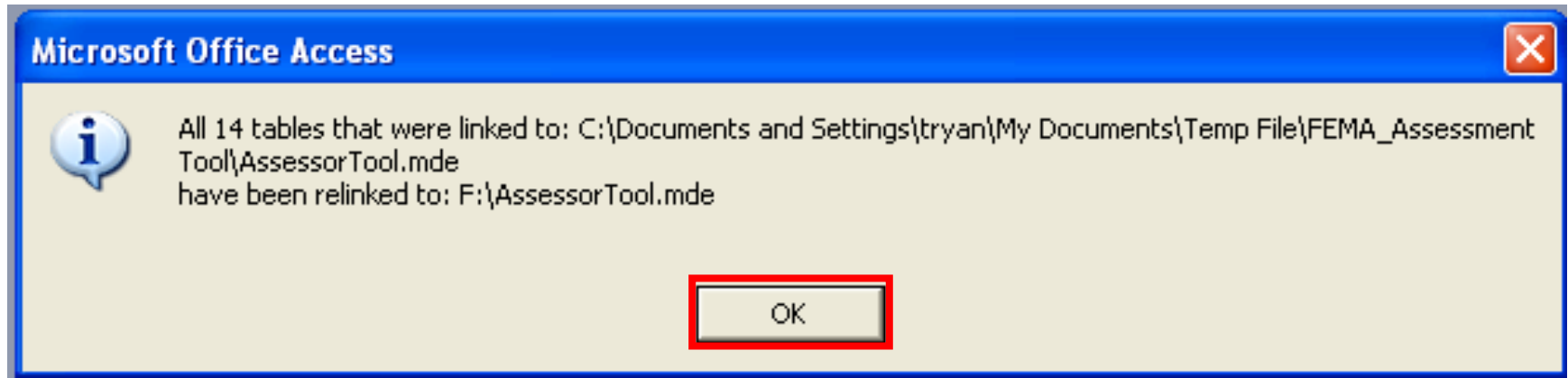
FEMA

# Master Database: Import Function



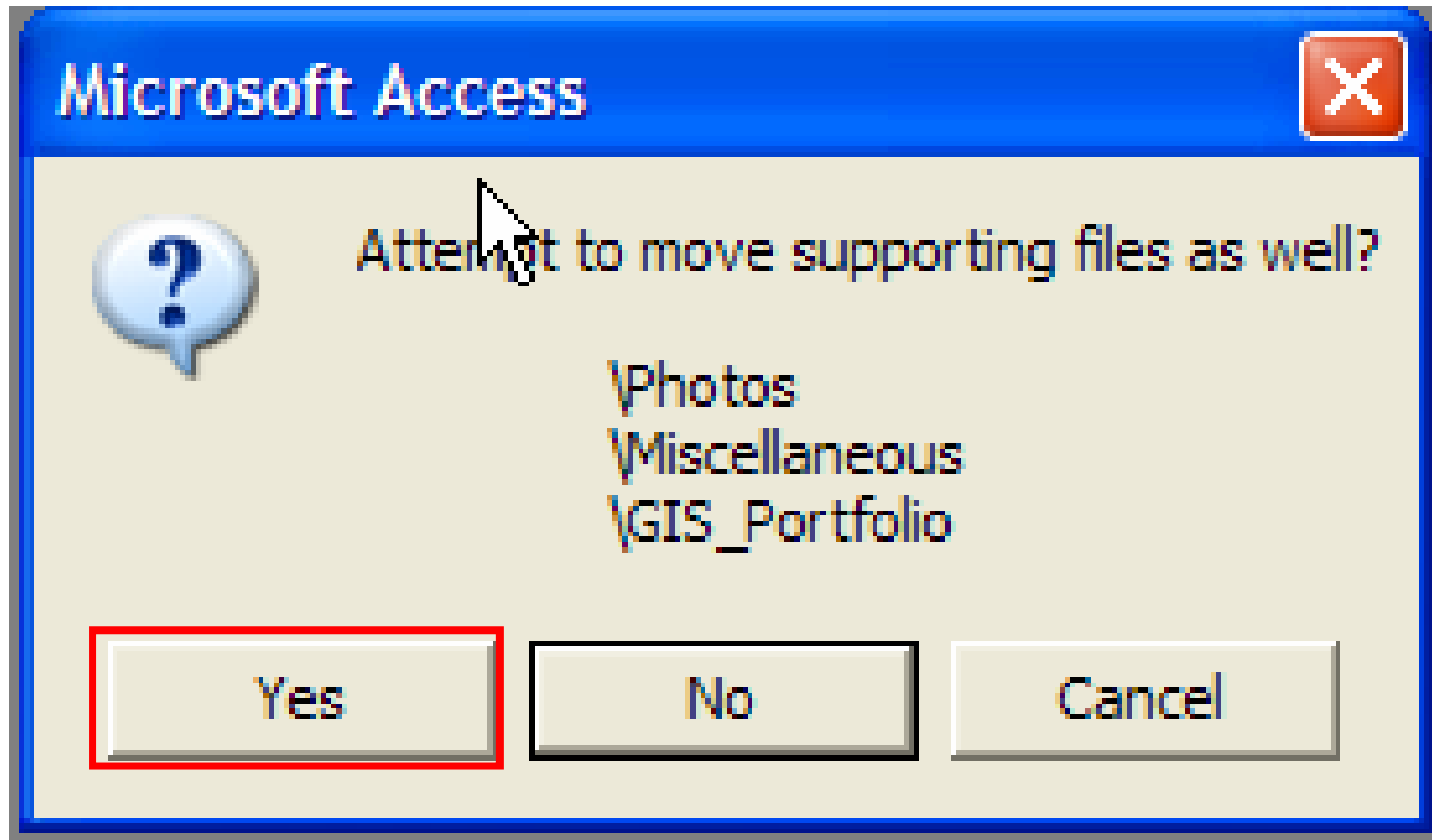
**FEMA**

# Master Database: Import Function



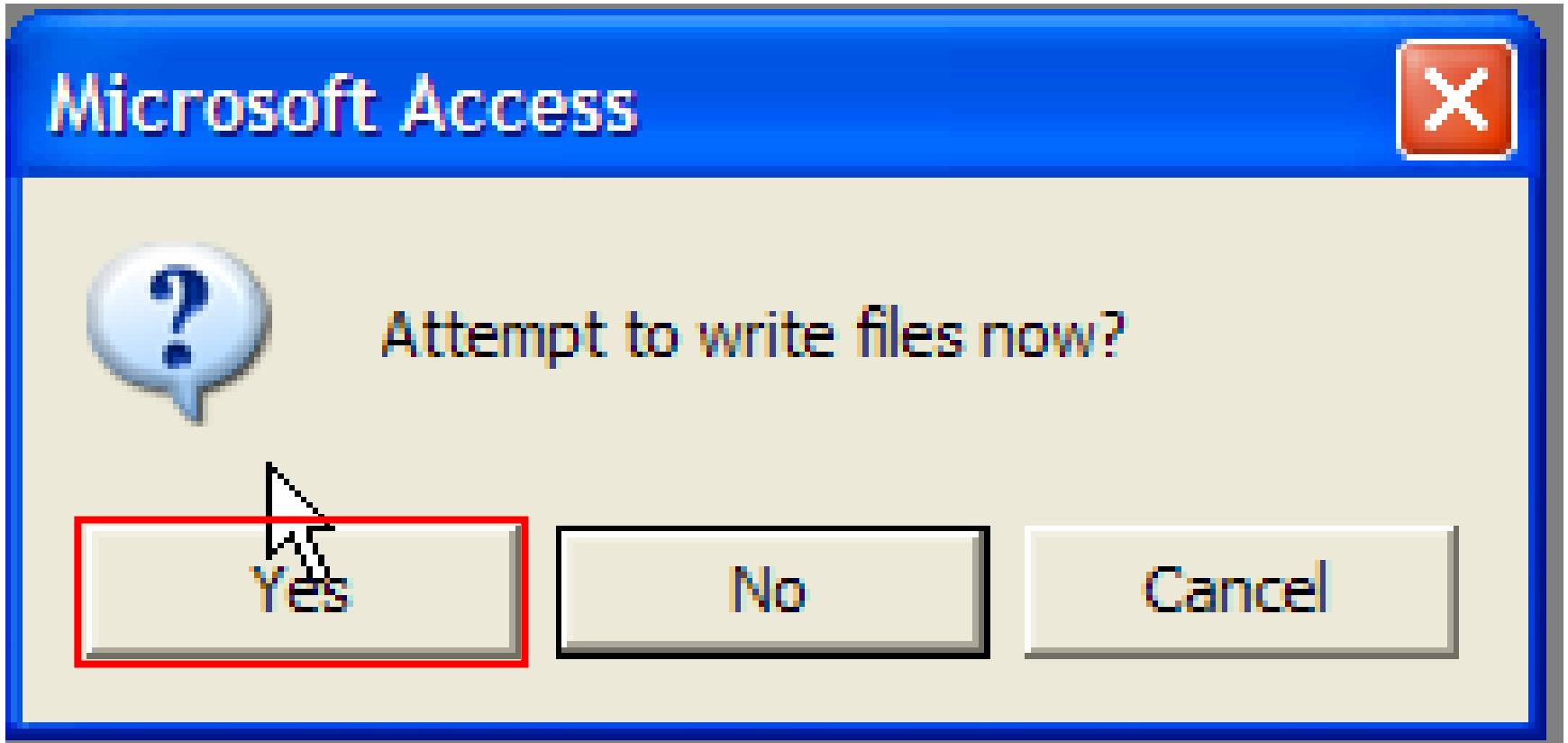
**FEMA**

# Master Database: Import Function



FEMA

# Master Database: Import Function



FEMA



# Master Database: Import Function

**Import Assessments**

Select a database from which to import an Assessment. Then click [Import].

**Currently Linked to:**



FEMA

# Master Database: Import Function

Import Detailed Diagnostics

Import Order	Importing	NumberOf RecordsBefore	NumberOf RecordsAttempted	NumberOf RecordsAfter	Successful
1	Sites	4	1	5	<input checked="" type="checkbox"/>
2	Buildings (*handled differently)	0	19	19	<input checked="" type="checkbox"/>
3	People	0	2	2	<input checked="" type="checkbox"/>
4	Assessments	4	1	5	<input checked="" type="checkbox"/>
5	Observations	216	216	432	<input checked="" type="checkbox"/>
6	Vulnerabilities	0	1	1	<input checked="" type="checkbox"/>
7	Executive Summary	1	1	2	<input checked="" type="checkbox"/>
8	Critical Infrastructure	20	20	40	<input checked="" type="checkbox"/>
9	Critical Functions	18	18	36	<input checked="" type="checkbox"/>
10	Assessment Personnel	0	2	2	<input checked="" type="checkbox"/>
11	GIS images this assessment	0	1	1	<input checked="" type="checkbox"/>
12	Photos	0	1	1	<input checked="" type="checkbox"/>
13	Assessment Photos	0	1	1	<input checked="" type="checkbox"/>
14	Miscellaneous files	0	1	1	<input checked="" type="checkbox"/>

Record: 1 of 14



FEMA

# Master Database: Import Function

**Import Assessments**

Select a database from which to import an Assessment. Then click [Import].

**Link and Import from:**



FEMA

# Summary

Installation and opening of databases

Filing of GIS Portfolio, Miscellaneous, and Photos to link with the databases

Moving about the database software and between the Assessor Tool and the Master Database

Setting priorities on identified vulnerabilities and how the software handles it

Production of standard reports and searching the database for specific information



**FEMA**