

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>



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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



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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**



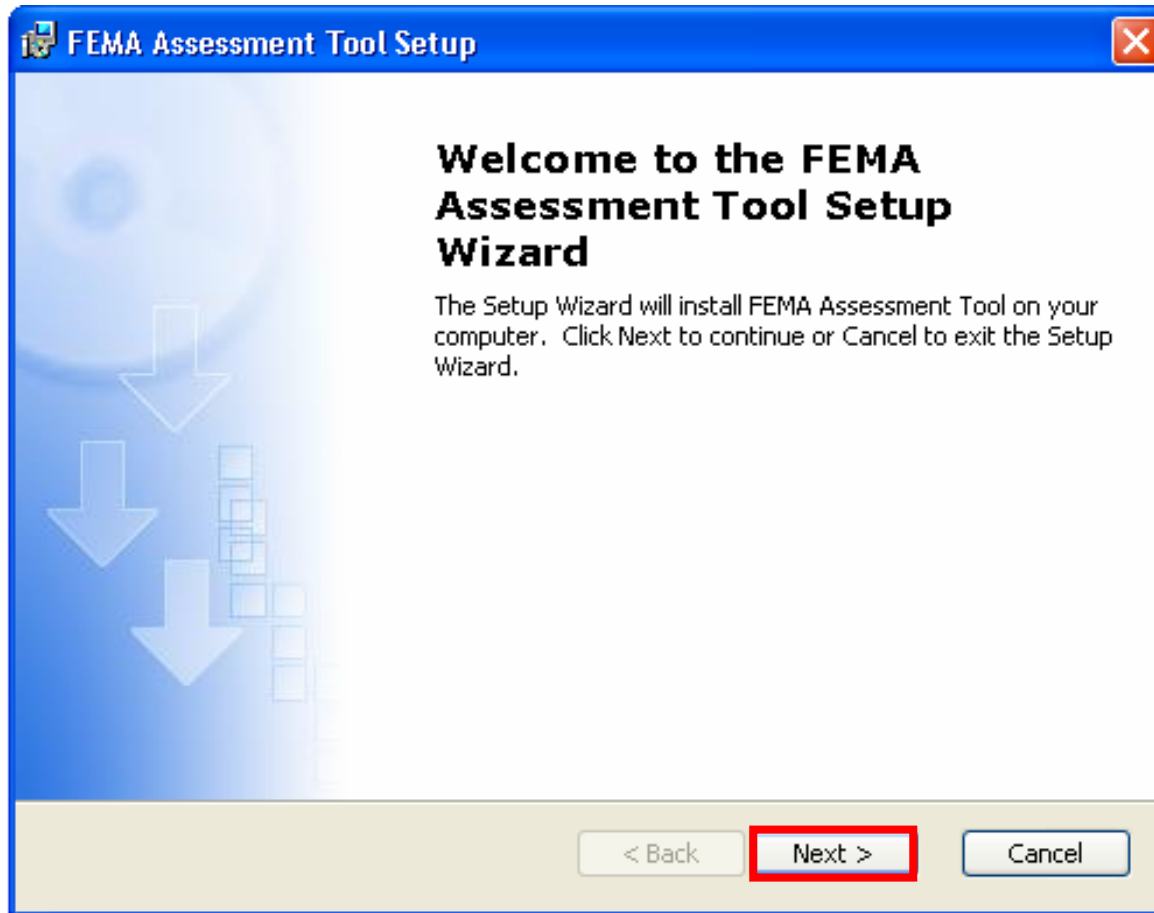
 **SETUP.EXE**
 **Autorun.inf**
 **Files**

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



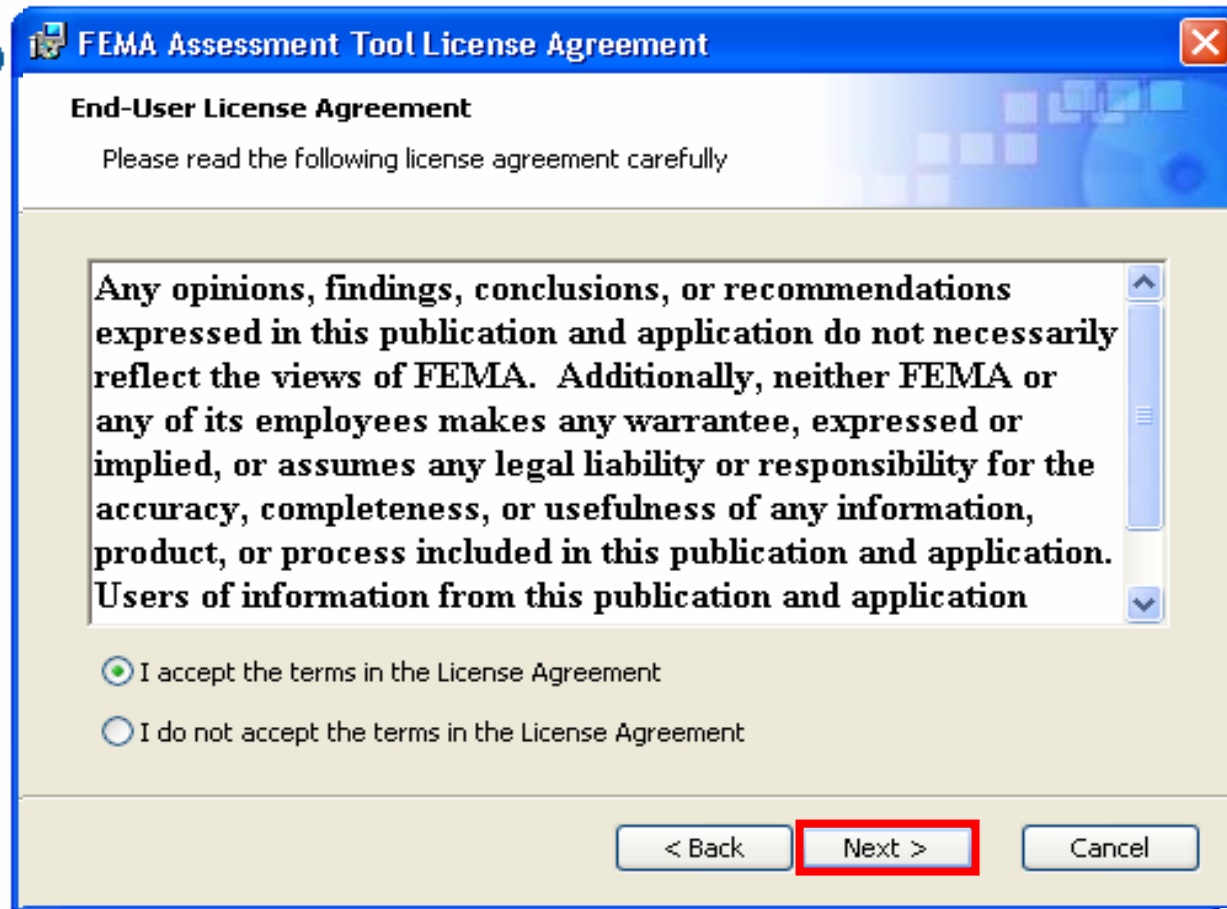
FEMA

Program Installation



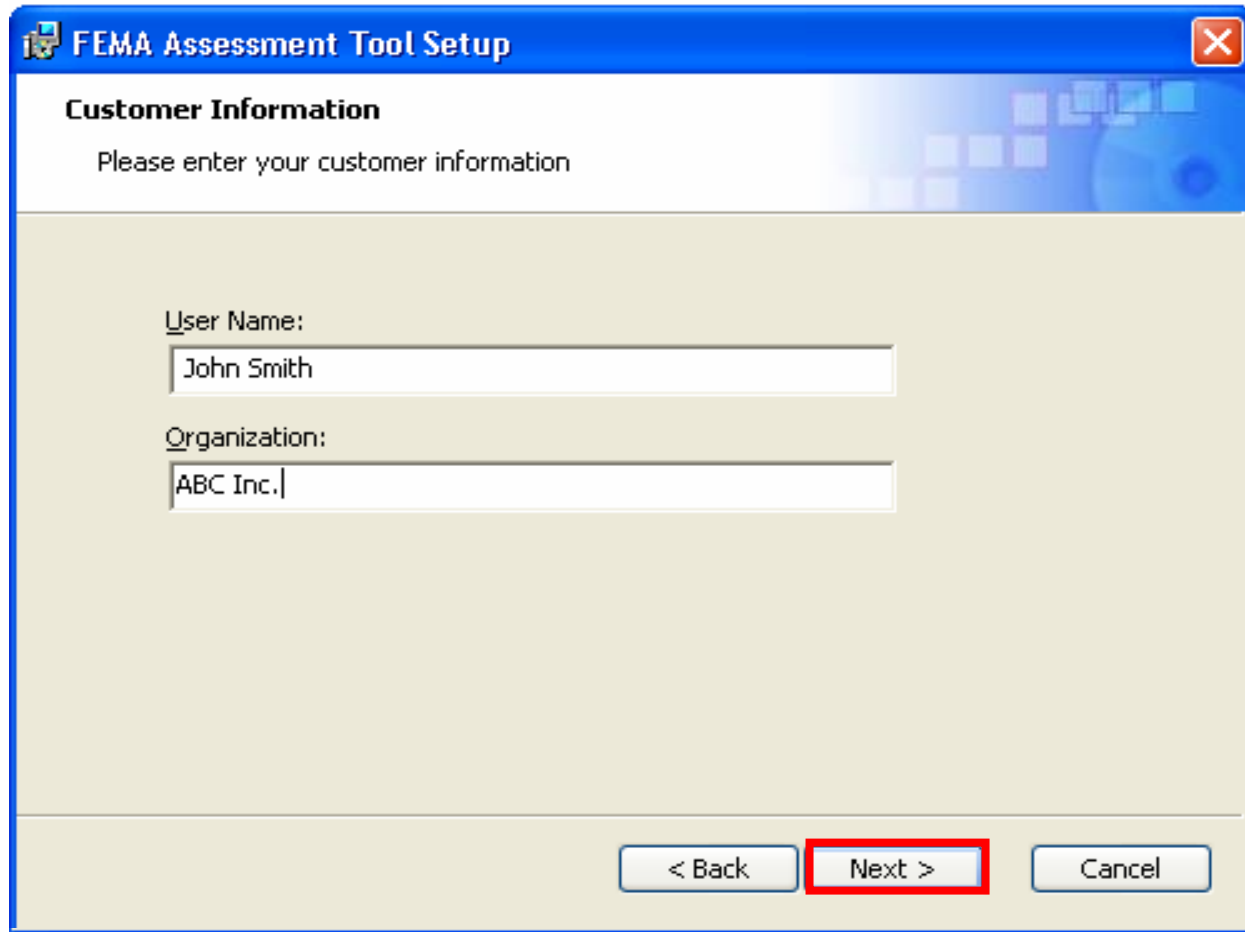
FEMA

Program Installation



FEMA

Program Installation



FEMA Assessment Tool Setup

Customer Information

Please enter your customer information

User Name:
John Smith

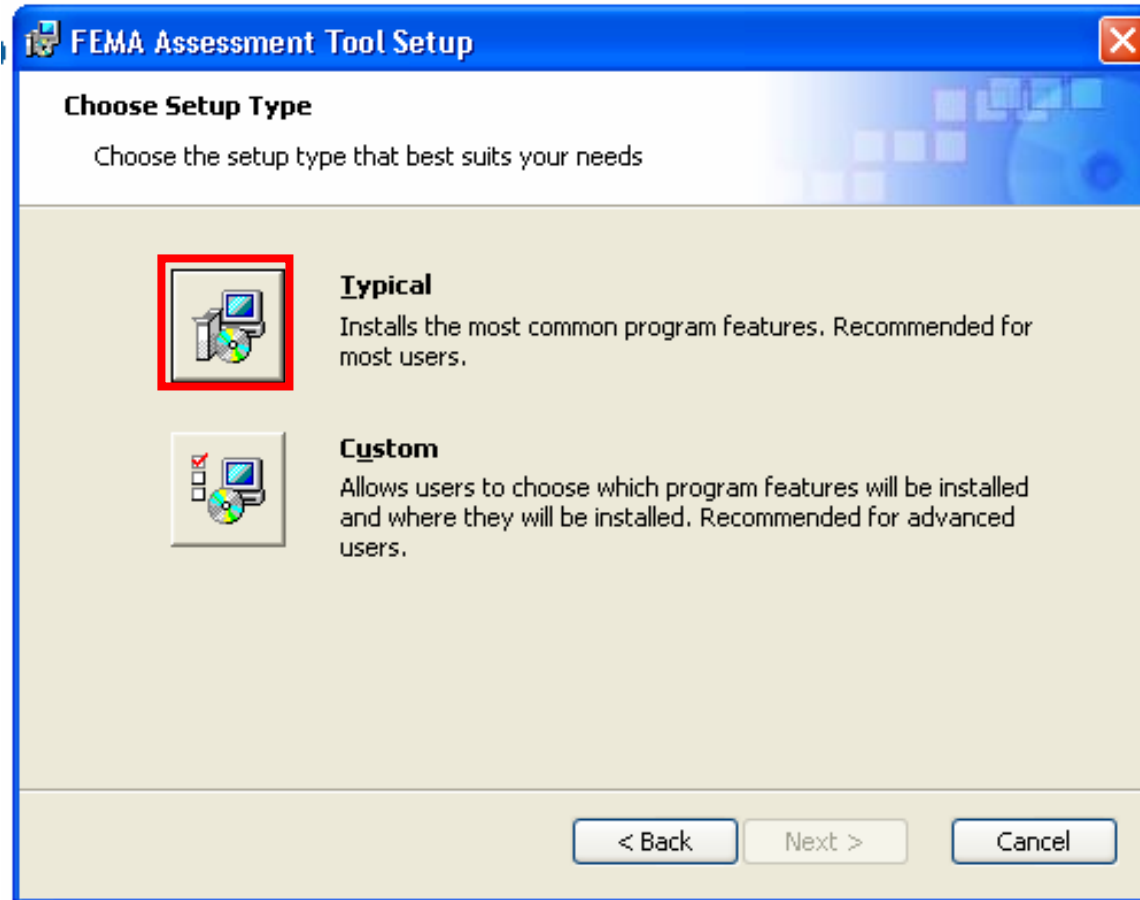
Organization:
ABC Inc.

< Back **Next >** Cancel



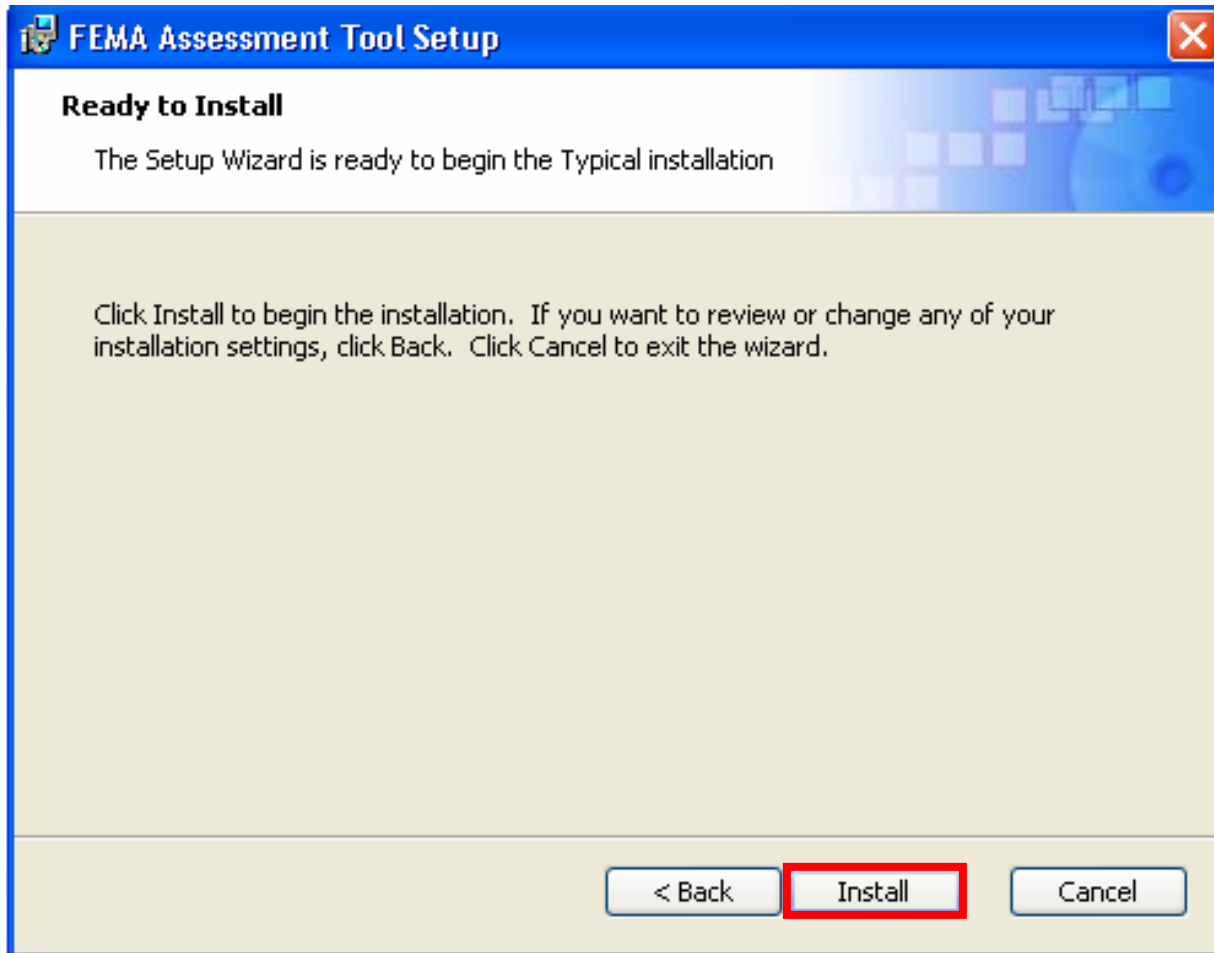
FEMA

Program Installation



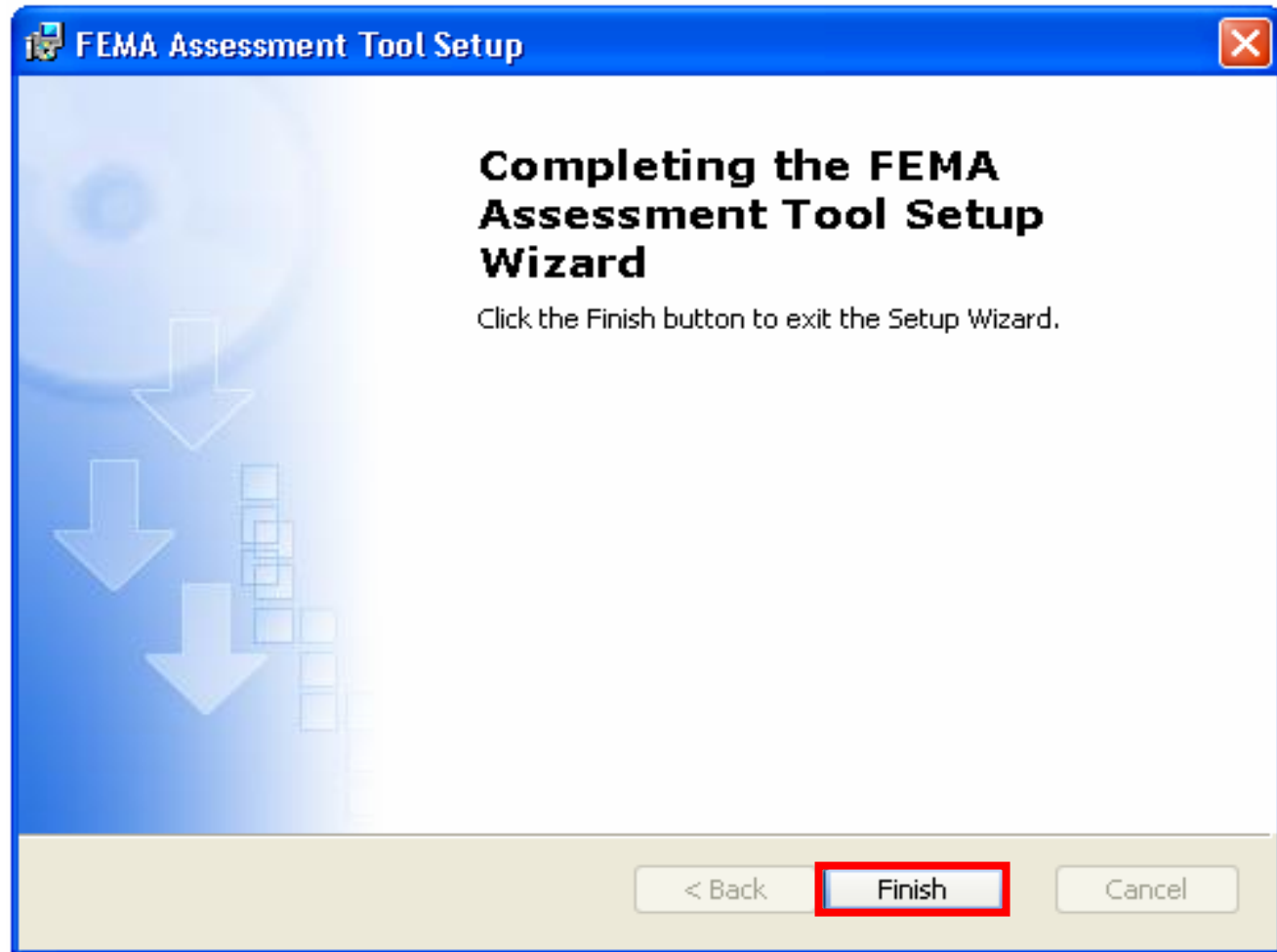
FEMA

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>**



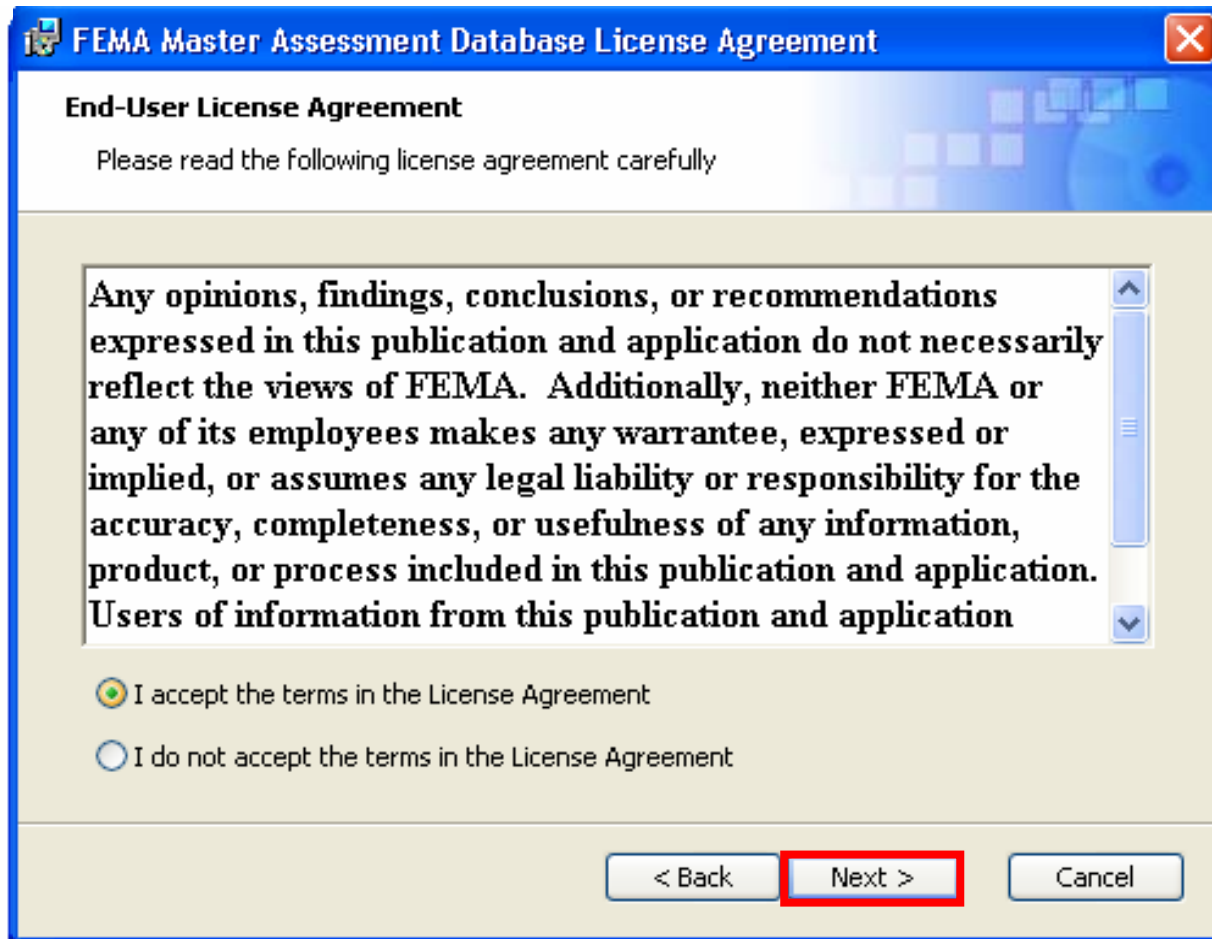
FEMA

Program Installation



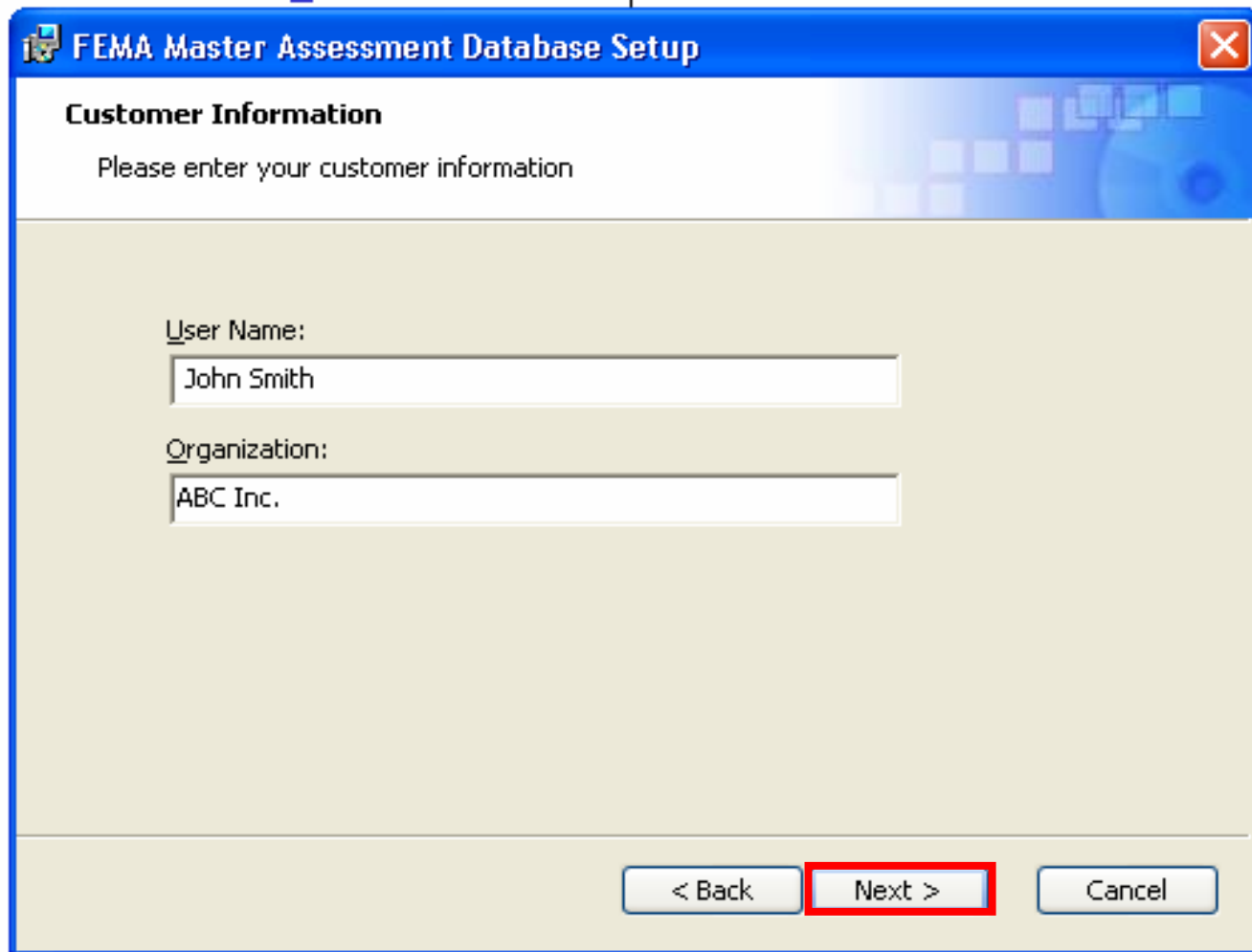
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Program Installation



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:

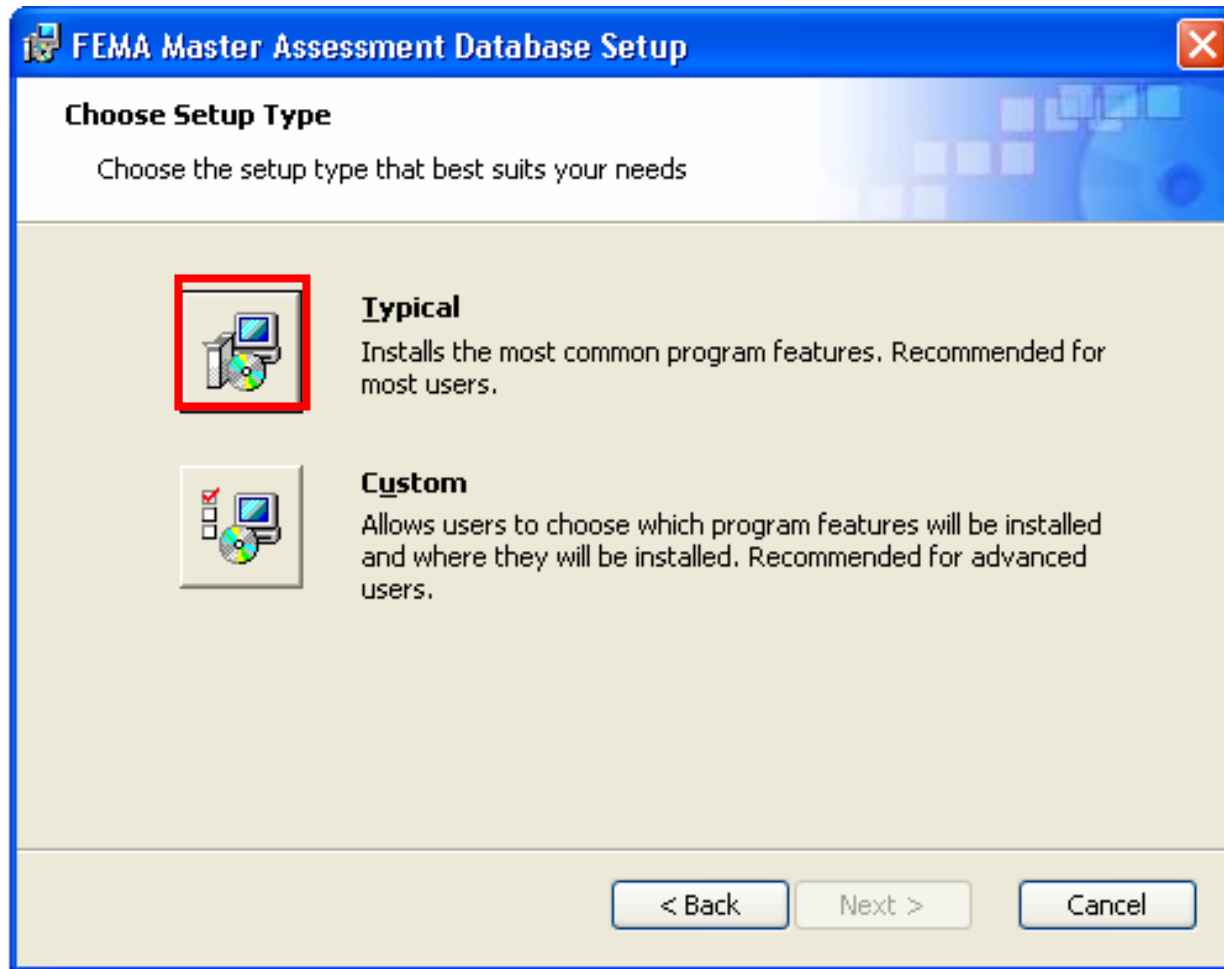
Organization:

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



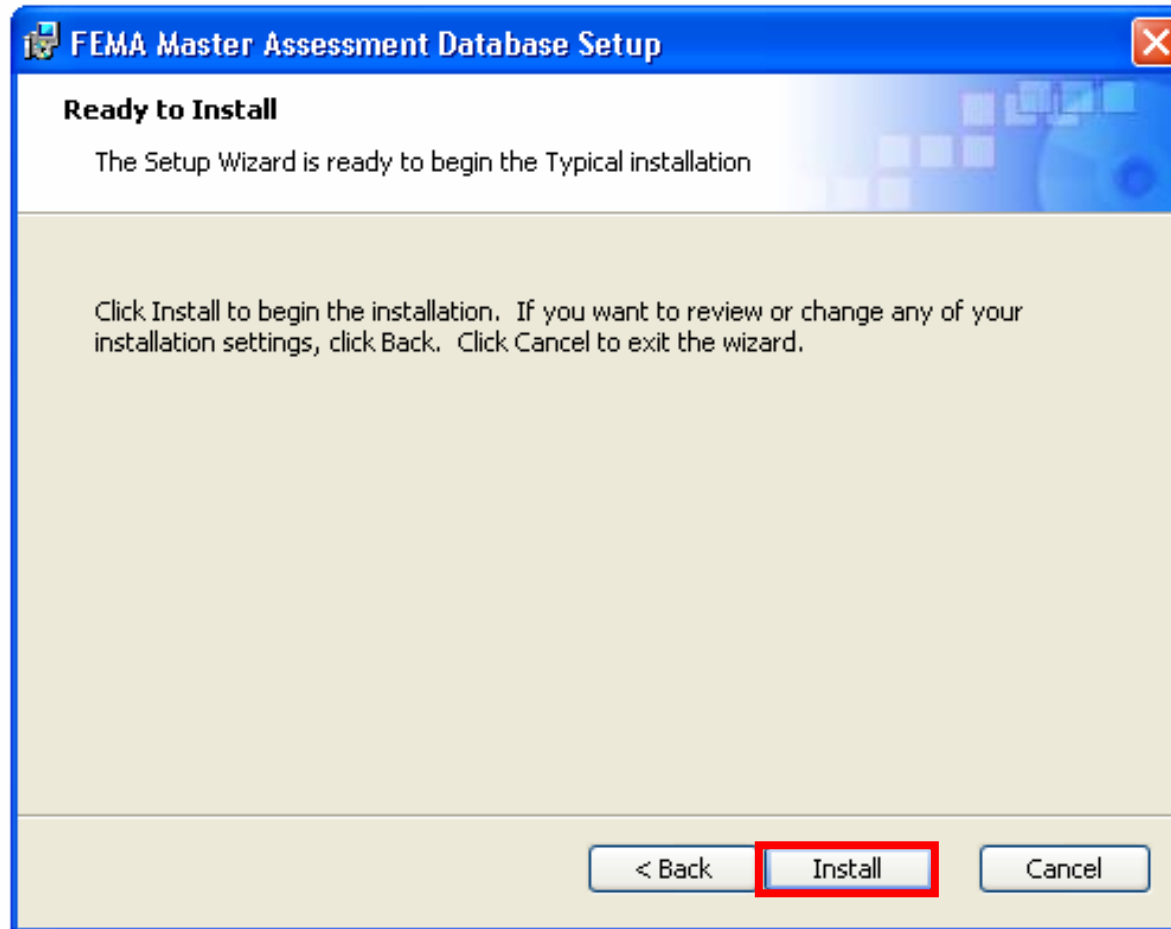
FEMA

Program Installation



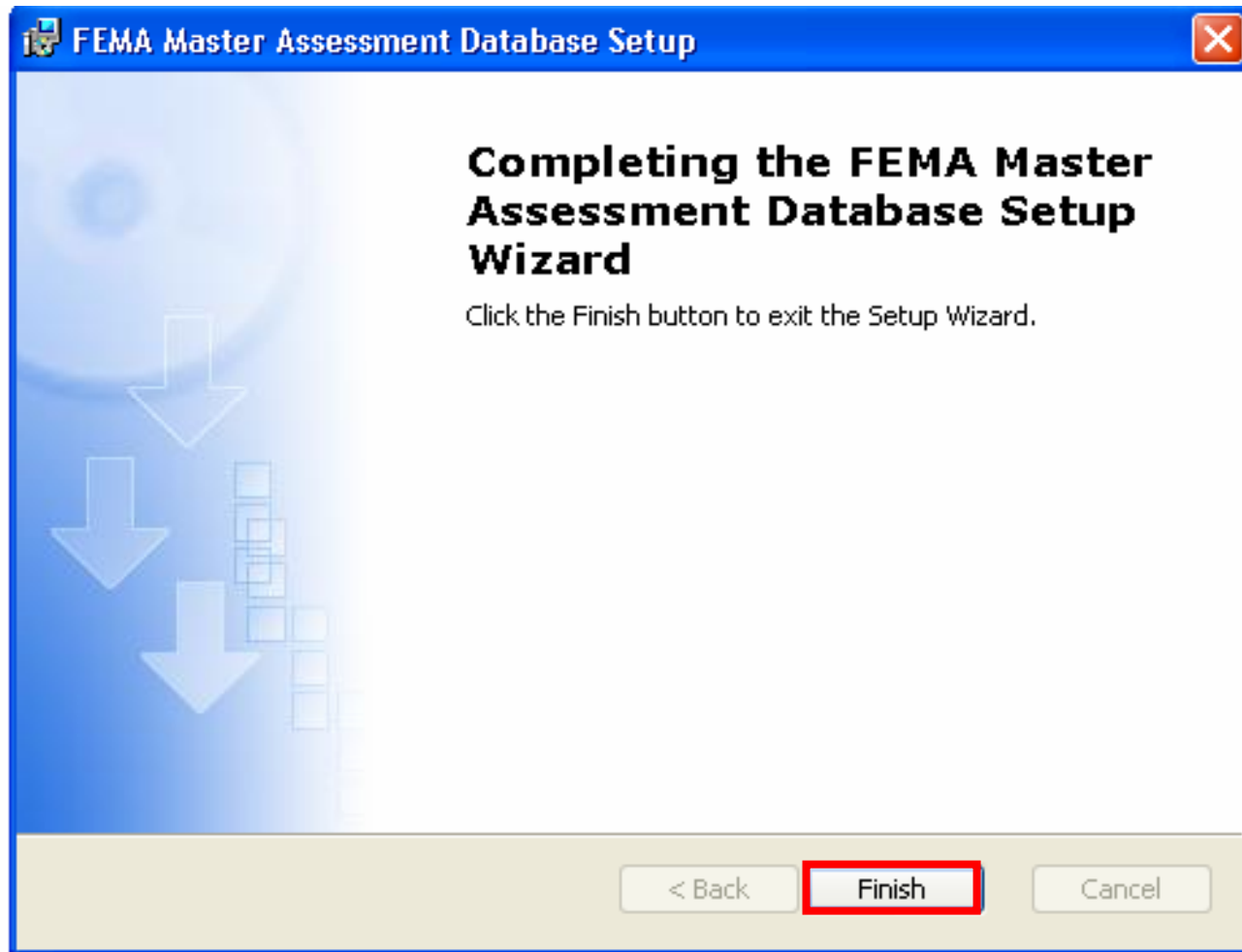
FEMA

Program Installation



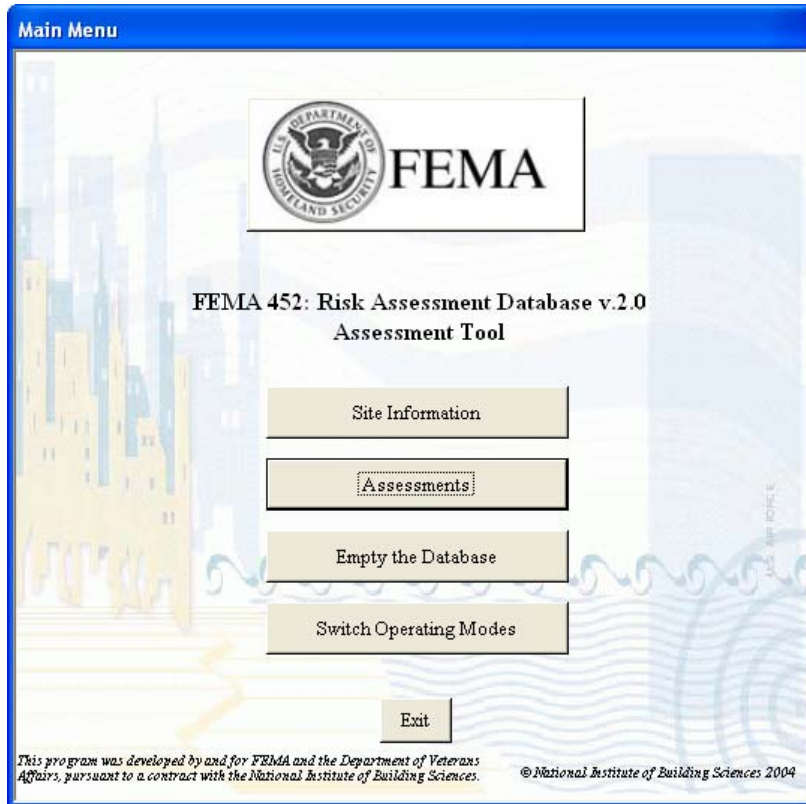
FEMA

Program Installation



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FEMA 452: Risk Assessment



Assessor Tool



Master Database



FEMA

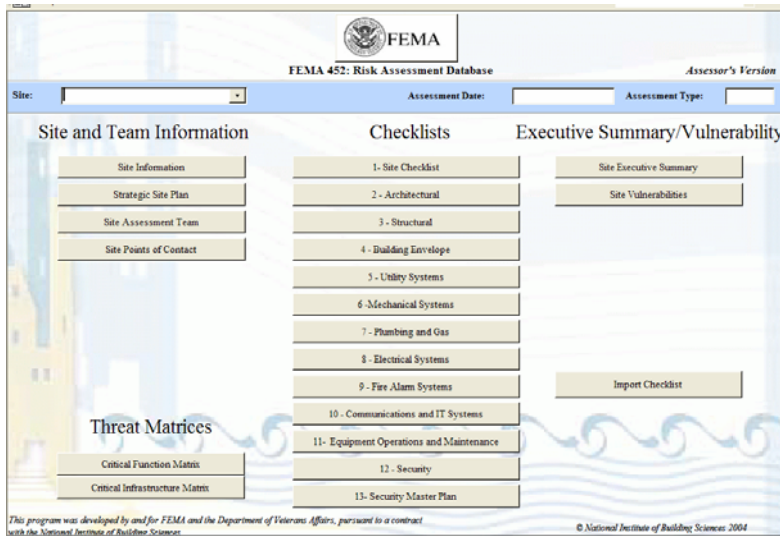
Database Structure

Conduct Assessment

Import Assessment Data

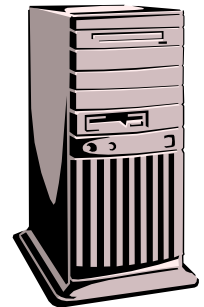
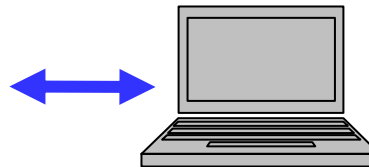
Analyze Data

Store Data



Master Database

Return Files, Pictures, Data



Assessor Tool
(MS Access)

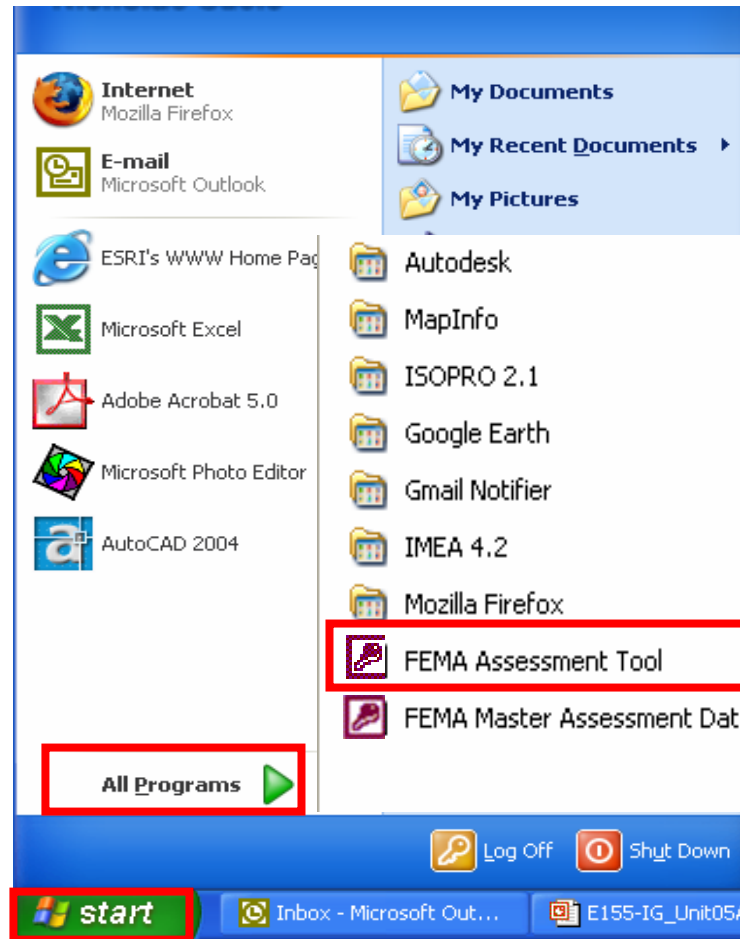
Assessor Tool

Master Database
(MS Access)



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Open Assessor Tool



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Login to Assessor Tool

Logon [?] [X]

Name:
Assessor

Password:

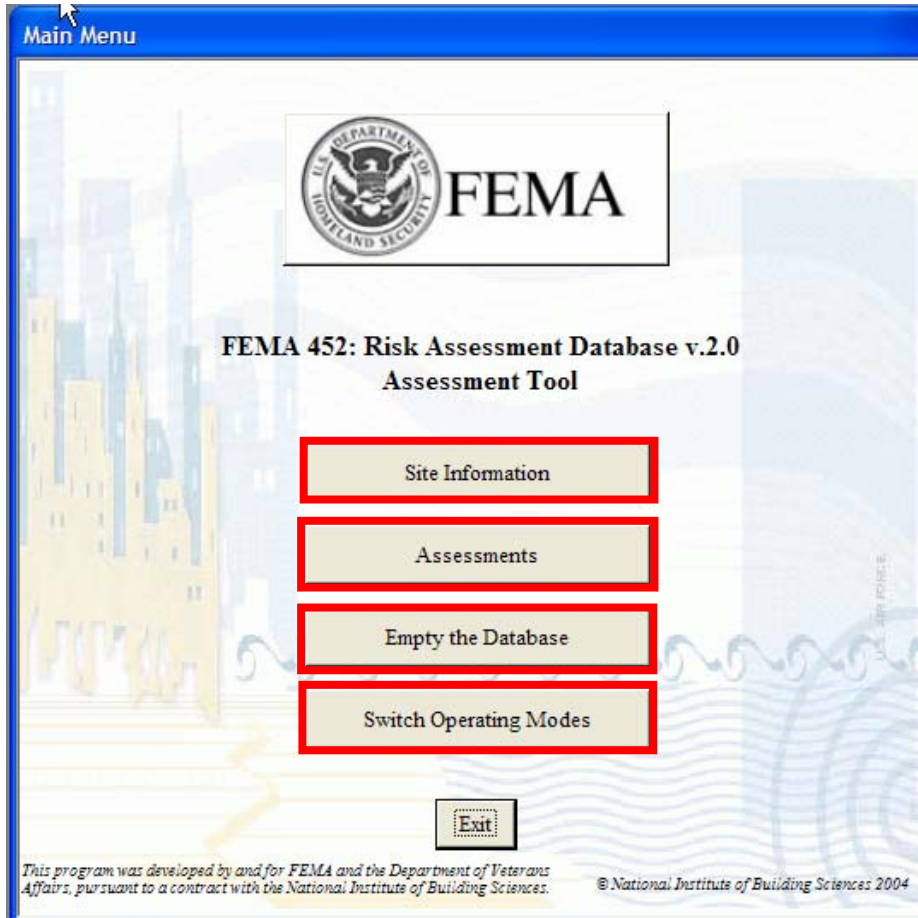
OK

Cancel



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Assessor Tool



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



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Site Information

Create Assessment Site

Site Name*: Hazardville Information Co Default Site Image: [Dropdown] No Image Available

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

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

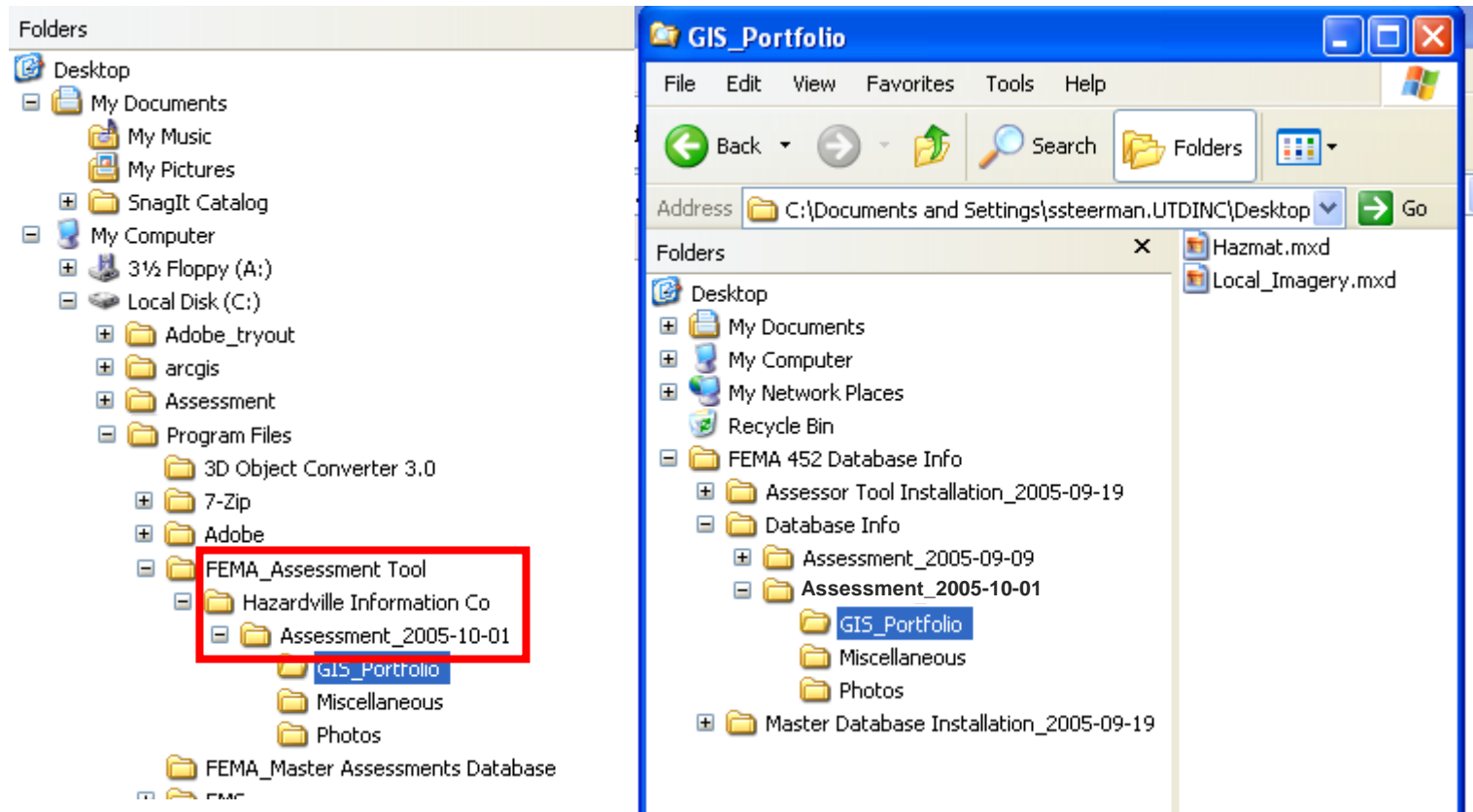
New Site <-Previous Site Next Site-> * Required Field(s) Close

Record: [Navigation Icons] 1 of 1



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Load Information

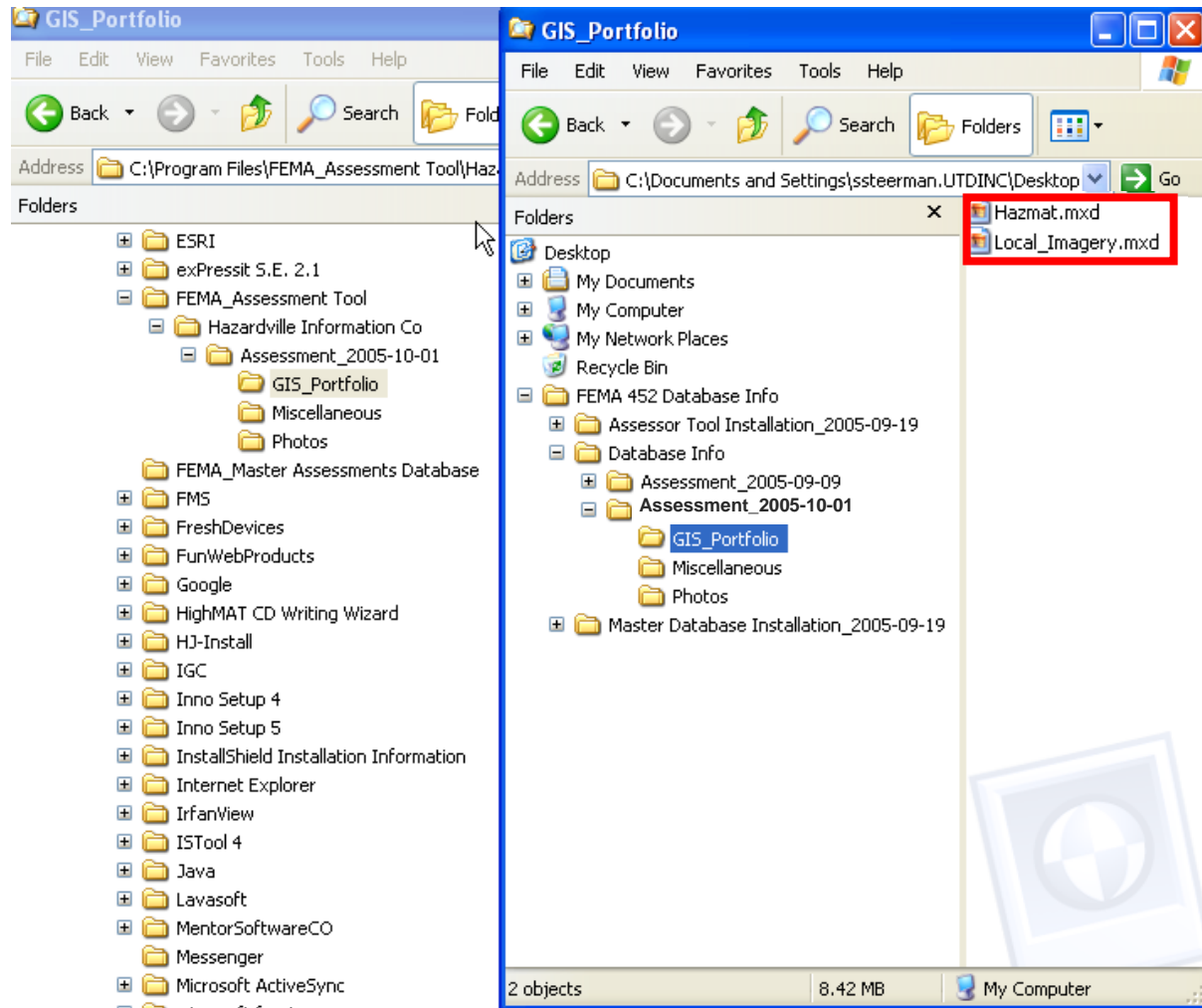


Open a second window with existing data



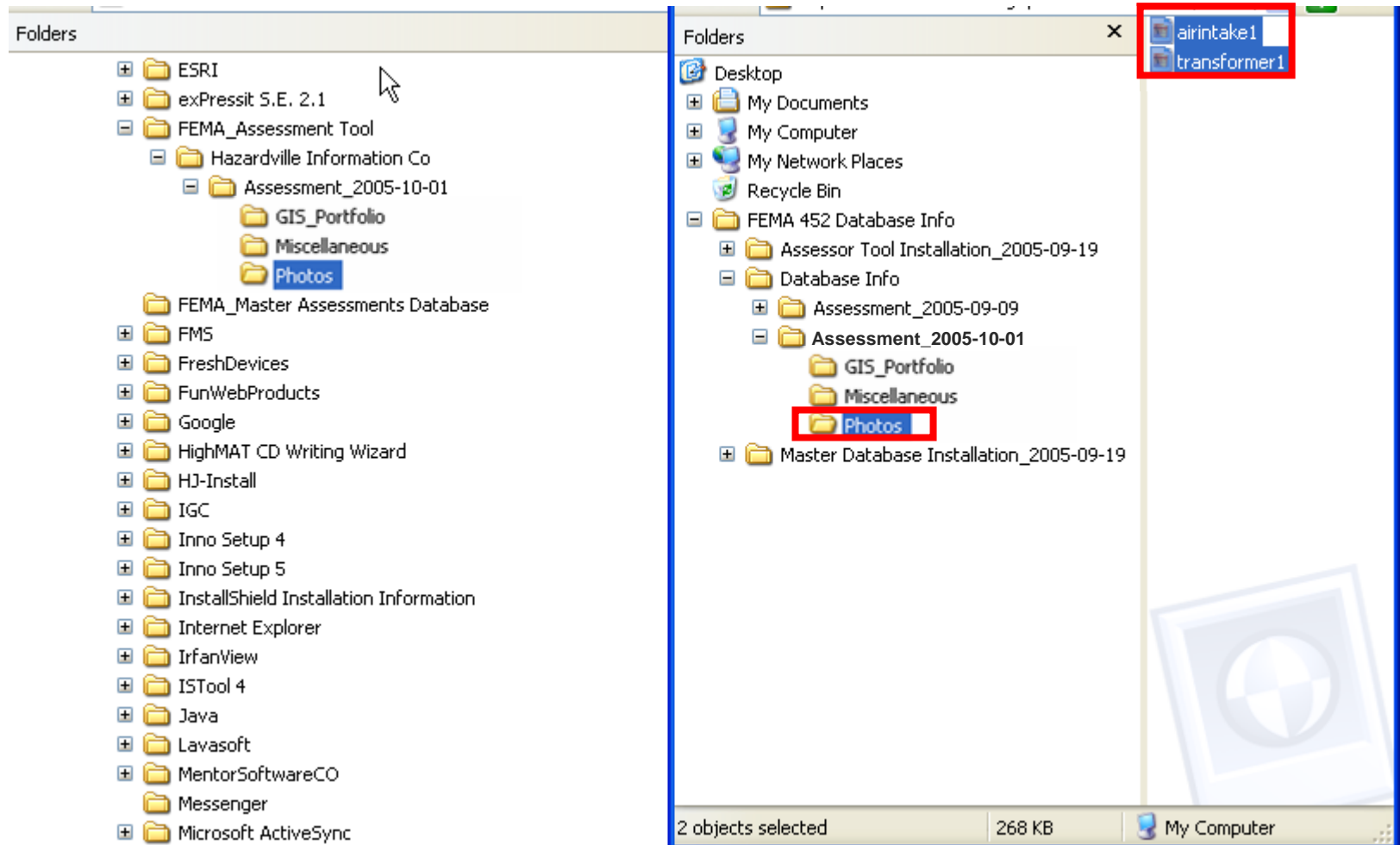
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Load Information



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Load Information



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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

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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:



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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:



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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	

Microsoft Access

Attached 2 photos to this ASSESSMENT!

OK

Add Photos ?

Record: 1 of 2

Close



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

(2 images total)





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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



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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



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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"/>

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



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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

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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 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			
VR: Vulnerability Rating		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			
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	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
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
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
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
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
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
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

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

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



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

- 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

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Critical Infrastructure Matrix

Threats →

Infrastructure ↓

Critical Infrastructure Matrix

Site Name: Assessment Date: Assessment Type:

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

■ 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
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Checklists

- 1 - Site Checklist
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- 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

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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

Threat Matrices

- Critical Function Matrix
- Critical Infrastructure Matrix

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



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
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

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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

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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**
--	--	--	---	-------

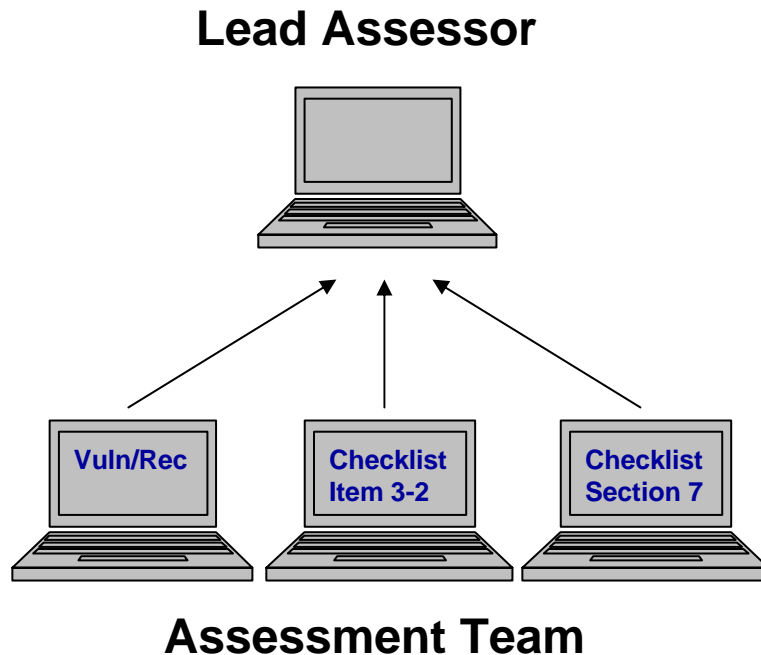
Record: 1 of 3

[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 'frmSiteAssessments_Remote' form open. The 'Assessments Available for Import From' field is set to 'C:\Temp\AssessorTool.mde'. A table lists available assessments:

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

A 'Microsoft Office Access' dialog box is overlaid, displaying the following information:

- Connection made.
- 216 Checklist records
- 1 Vulnerability records
- available for Viewing/Copying.

The 'OK' button in the dialog box is highlighted with a red rectangle. In the background, the 'Hazardville Information C' site name and the 'Select Assessment' button are also highlighted with red rectangles. The 'Record: 1 of 3' indicator is visible at the bottom of the form.



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

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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

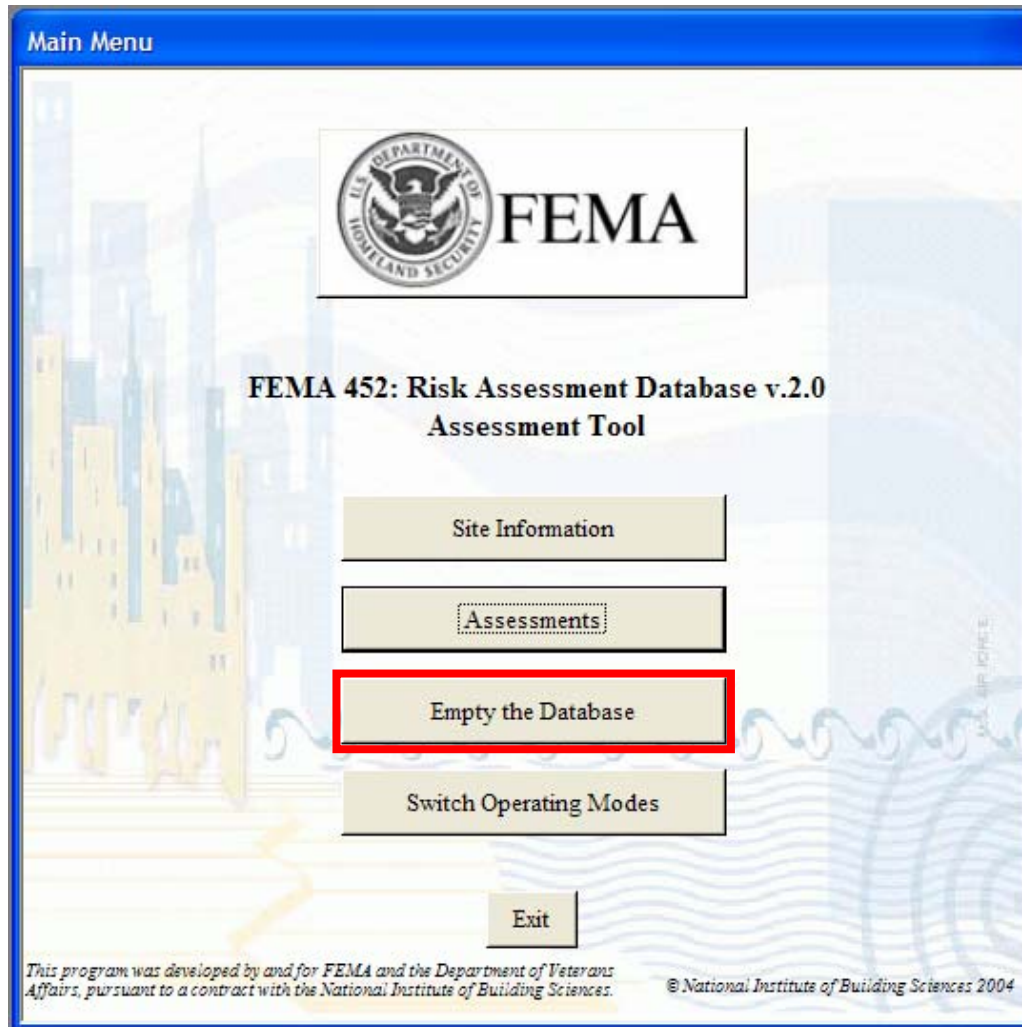
Critical Function Matrix
Critical Infrastructure Matrix

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FEMA

Empty Database



FEMA

Switch to Master Database



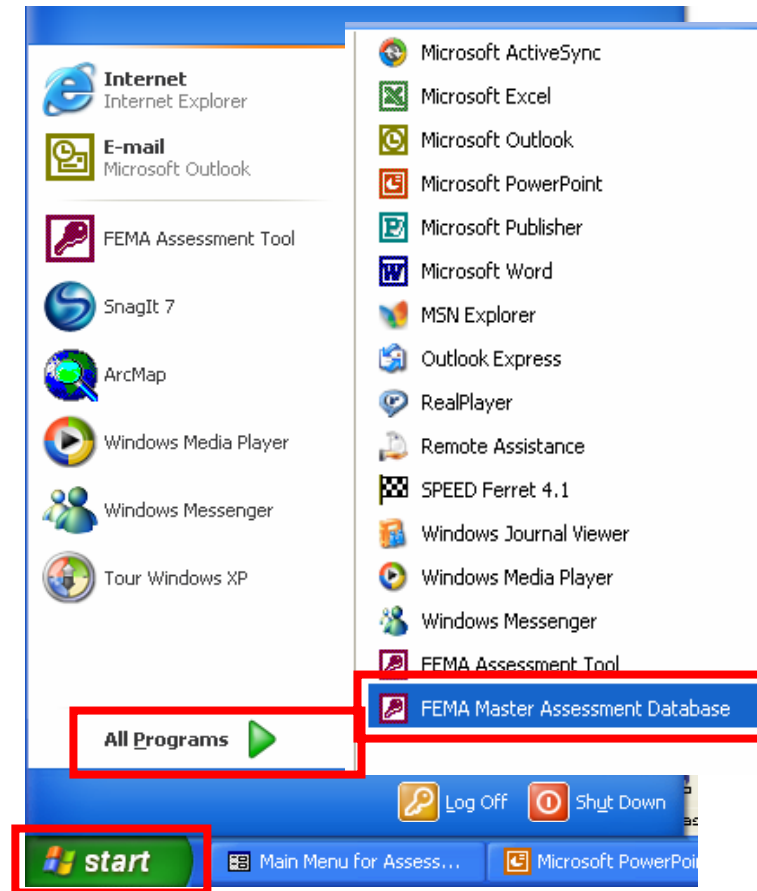
FEMA

Master Database



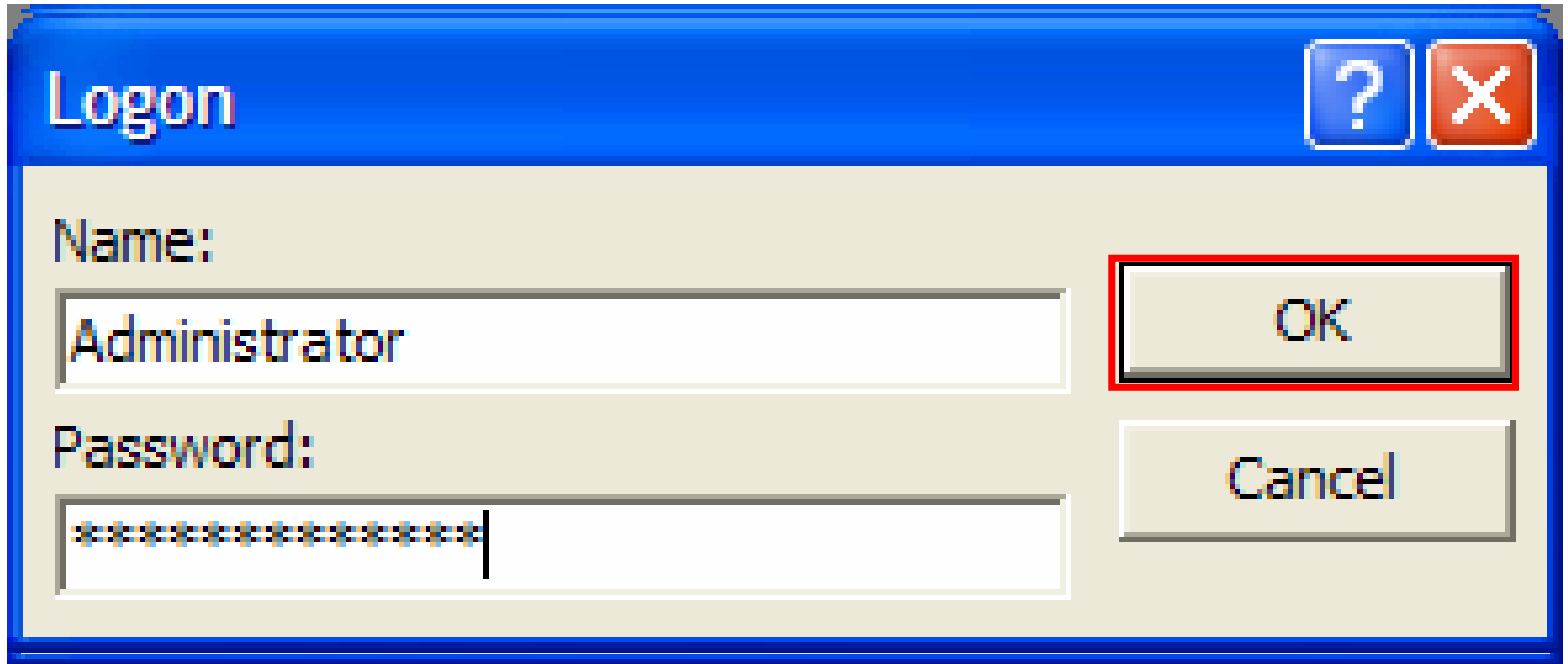
FEMA

Open Master Database



FEMA

Login to Master Database



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 "Administrator". Below "Password:" is a password input field filled with asterisks. To the right of the input fields are two buttons: "OK" and "Cancel". The "OK" button is highlighted with a red rectangular border.



FEMA

Master Database



FEMA

View Checklists

List of Assessments

Assessment Checklists

Site Name:
 Assessment Location:
 Assessment Date: Type:

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 f	Increased stand-off or increased access contr	<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: of 23

Record: 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

The screenshot displays a web application interface for managing assessments. At the top, a blue header reads "List of Assessments". Below this is a table with columns: "Assessment ID", "Assessment Location", "Organization Name", "Assessment Date", "Assessment Type", and "Assessment Folder Name". A search bar with "Search" and "Clear" buttons is positioned above the table. The table contains one row with the following data: ID "1", Location "Hazardville Information C", Organization Name "Site Assessment Reports Menu", and Assessment Folder Name "Assessment_2005-10-01\".

A "Microsoft Access" dialog box is overlaid on the table. It features a yellow warning triangle icon and the text: "This will build a stoplight spreadsheet in Excel. Are you sure you want to continue?". Below the text are three buttons: "Yes" (highlighted with a red border), "No", and "Cancel". A "Close" button is located below the dialog box.

At the bottom of the interface is a navigation menu with buttons for: "Executive Summary", "Vulnerabilities", "Points of Contact", "Assessment Team", "Photos", "GIS Portfolio", "Miscellaneous Files", "Assessment Checklist", "Critical Function", "Critical Infrastructure", "Site Reports" (highlighted with a red border), "Other Reports", "Help", and "Close".

At the very bottom, a record navigation bar shows "Record: 1 of 1" with navigation icons.



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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

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Vulnerability Assessment Checklist Search

All Observations and Recommendations/Remediations for this Question

Vulnerability Assessment Checklist # **Section Header:**

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	Date	Assessment Type	Observation	Recommendation /Remediation	Vulnerability?
Test13	4/7/2006	Tier 2			<input type="checkbox"/>
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: of 2

Record: 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

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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\

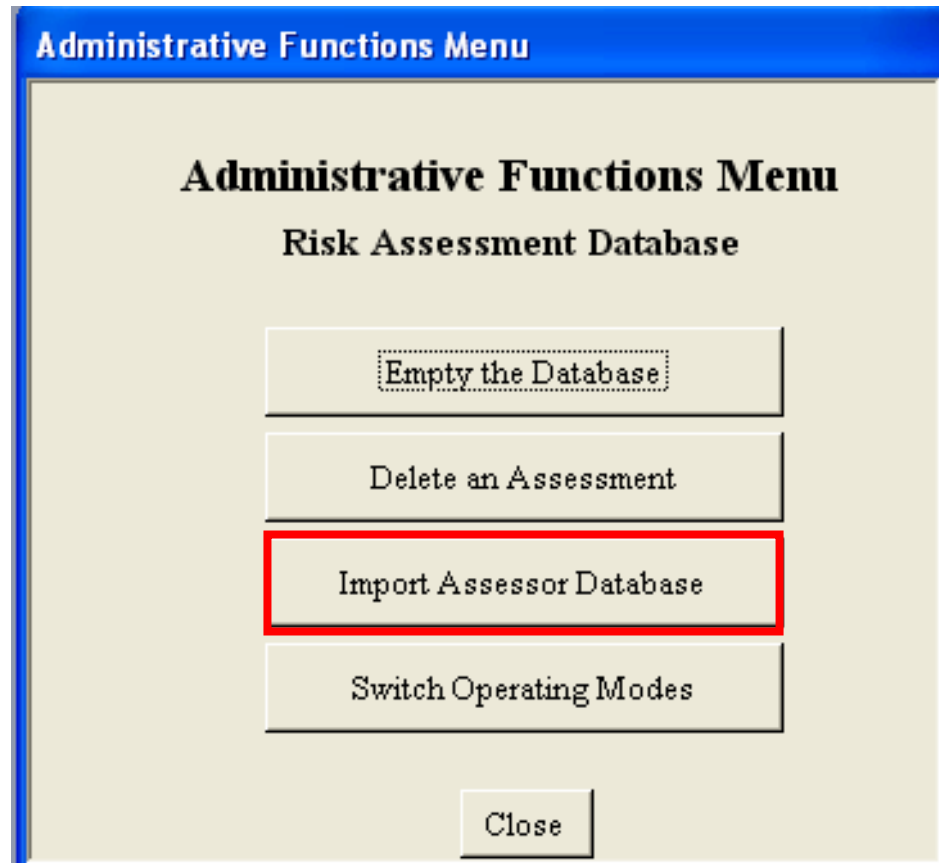
ent_2005-10-01\

Close



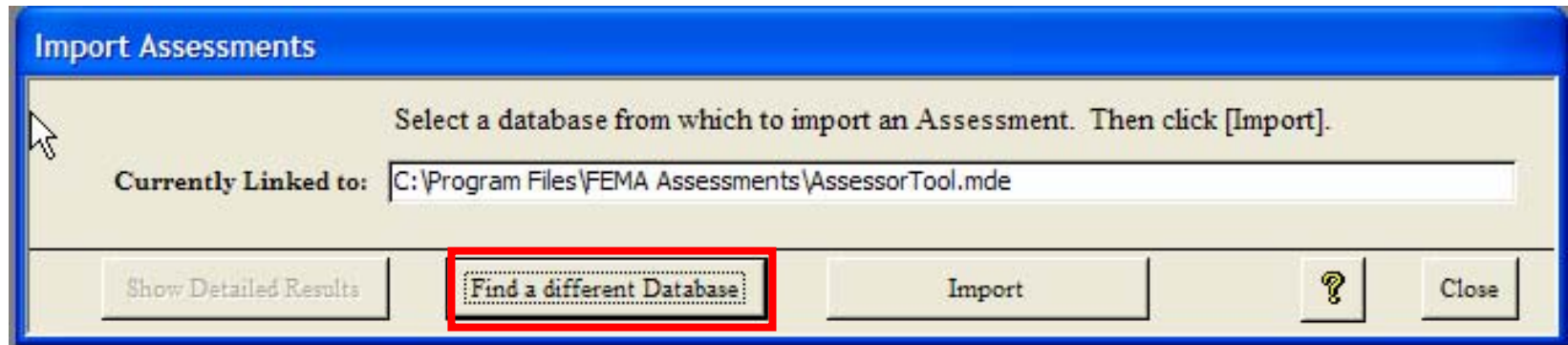
FEMA

Master Database: Import Function



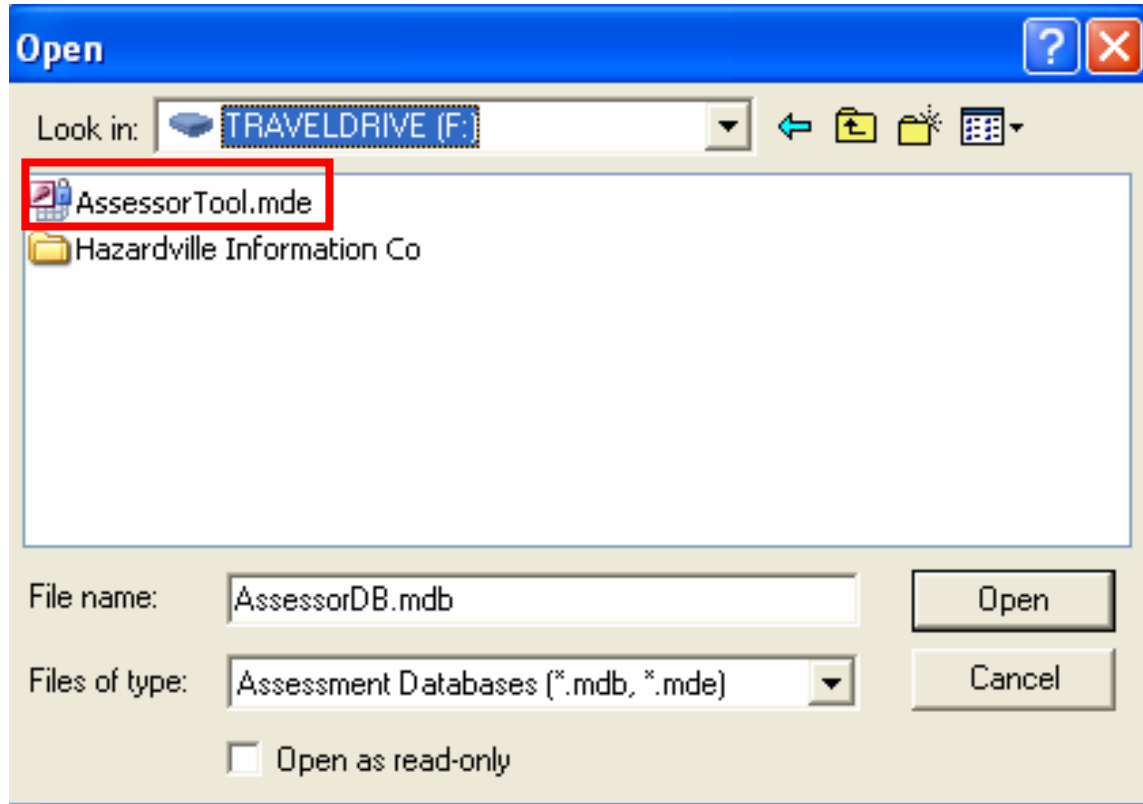
FEMA

Master Database: Import Function



FEMA

Master Database: Import Function



FEMA

Master Database: Import Function

Import Assessments

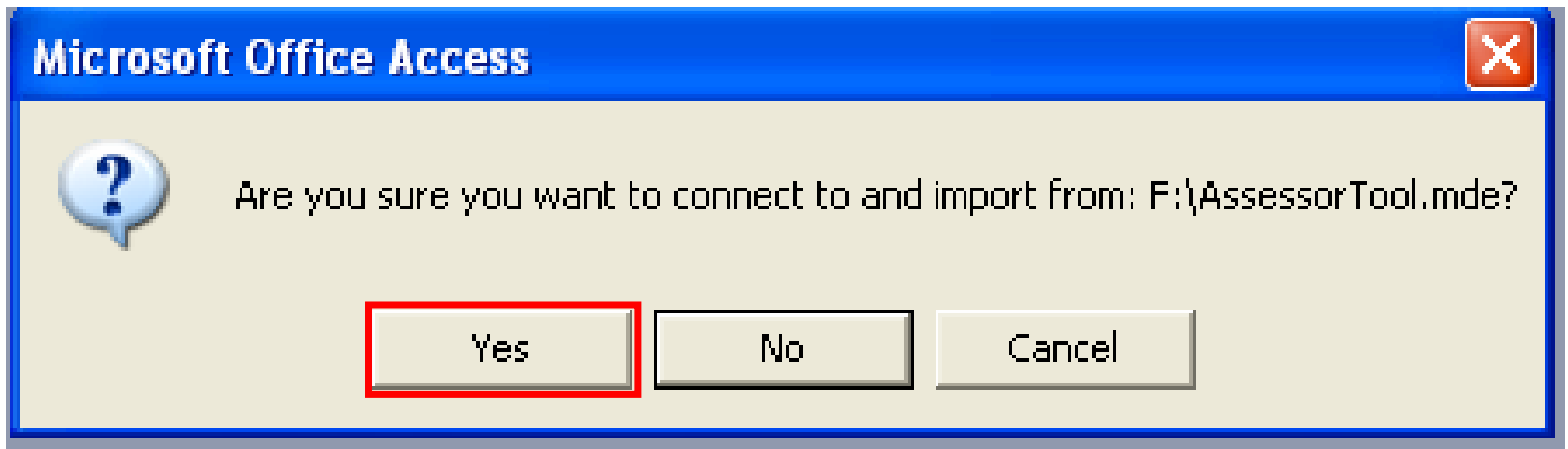
Select a database from which to import an Assessment. Then click [Import].

Link and Import from:



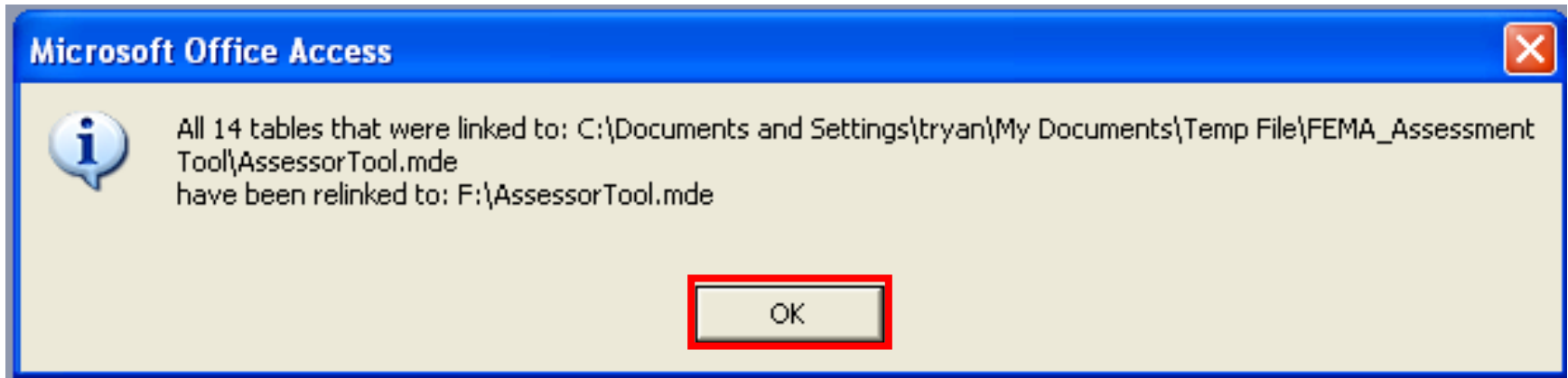
FEMA

Master Database: Import Function



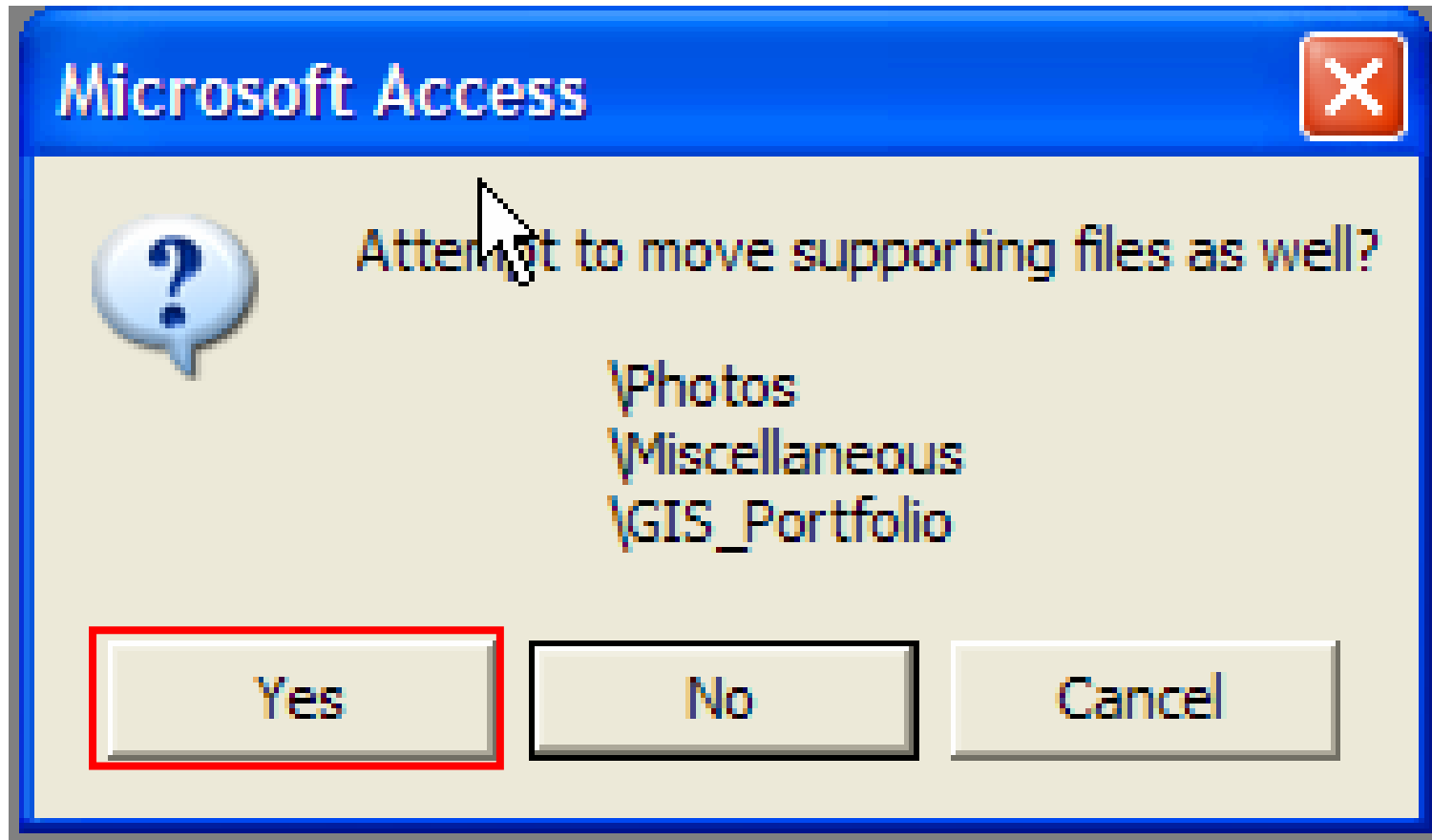
FEMA

Master Database: Import Function



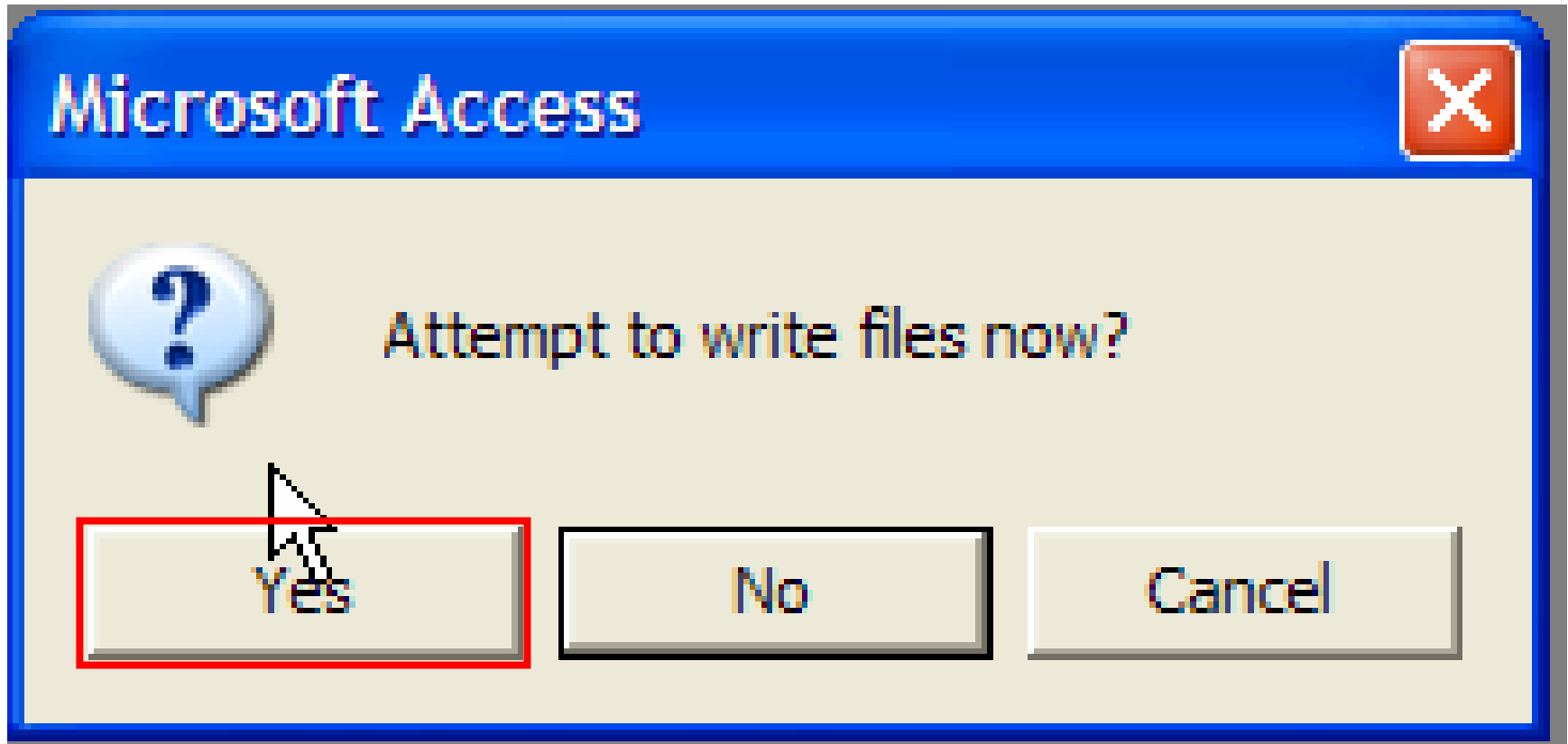
FEMA

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	✓
2	Buildings (*handled differently)	0	19	19	✓
3	People	0	2	2	✓
4	Assessments	4	1	5	✓
5	Observations	216	216	432	✓
6	Vulnerabilities	0	1	1	✓
7	Executive Summary	1	1	2	✓
8	Critical Infrastructure	20	20	40	✓
9	Critical Functions	18	18	36	✓
10	Assessment Personnel	0	2	2	✓
11	GIS images this assessment	0	1	1	✓
12	Photos	0	1	1	✓
13	Assessment Photos	0	1	1	✓
14	Miscellaneous files	0	1	1	✓

Record: 1 of 14



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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



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