Unit VI
FEMA 452
Risk Assessment Database

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

Program Installation

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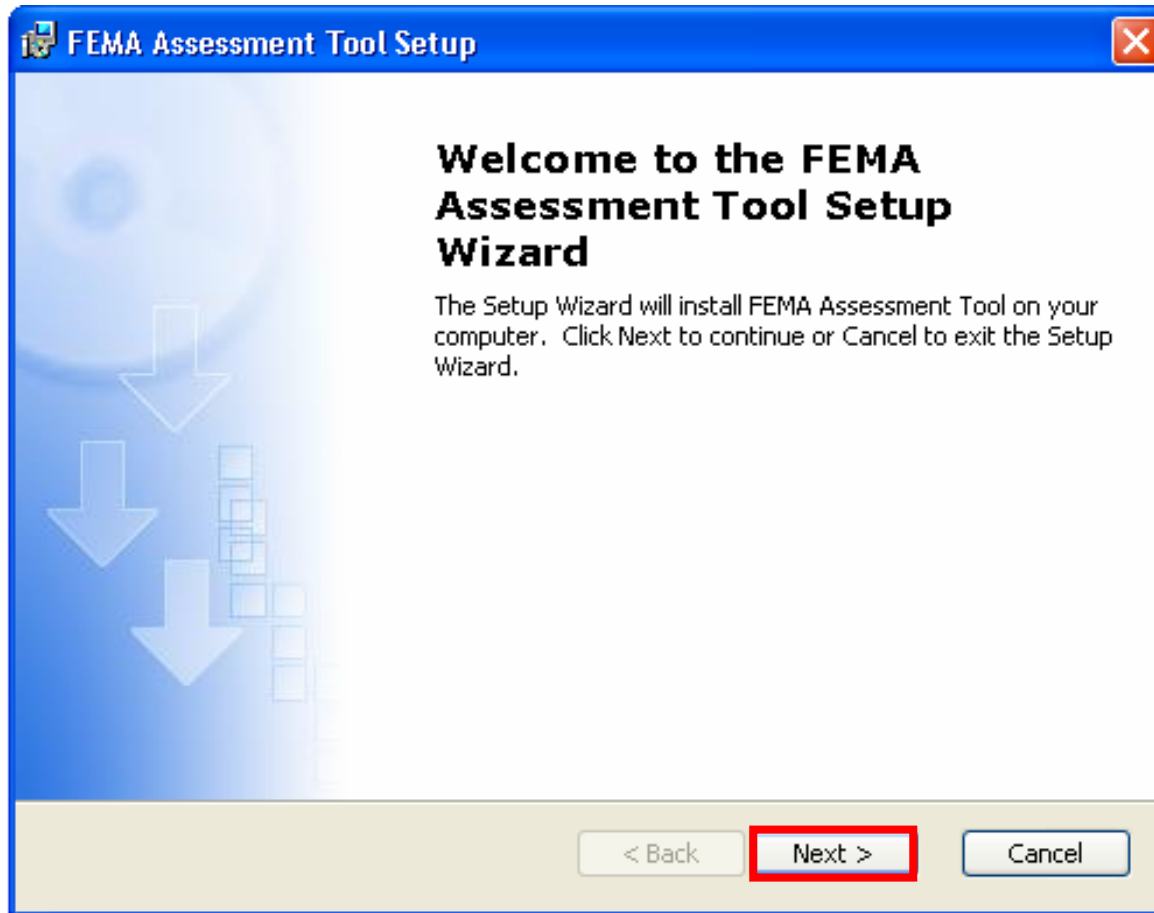- **Run SETUP.EXE for Assessor Tool**

📁 **AssessorTool-v2_2006-04-05**

➡️ SETUP.EXE

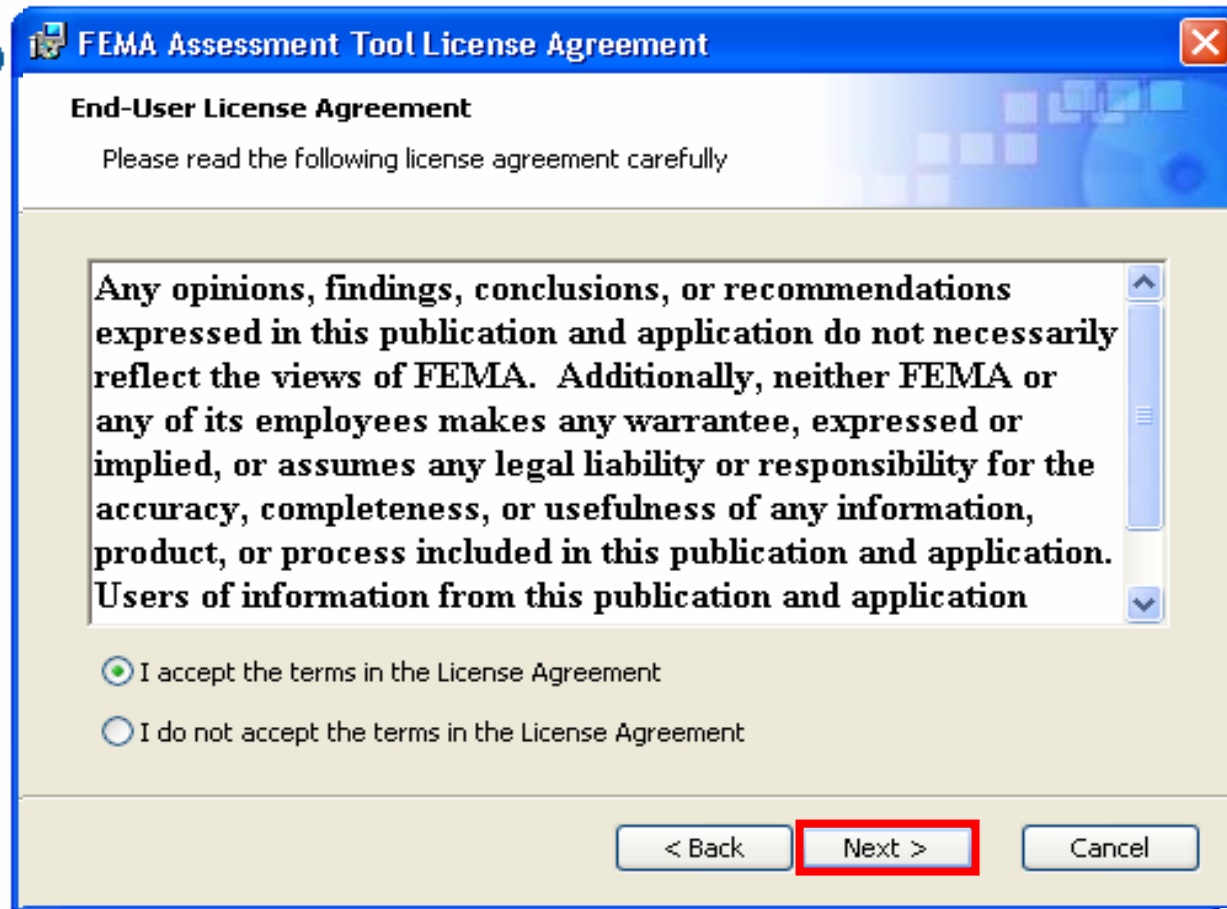Autorun.inf

📁 Files

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

FEMA

Program Installation

Program Installation

Program Installation
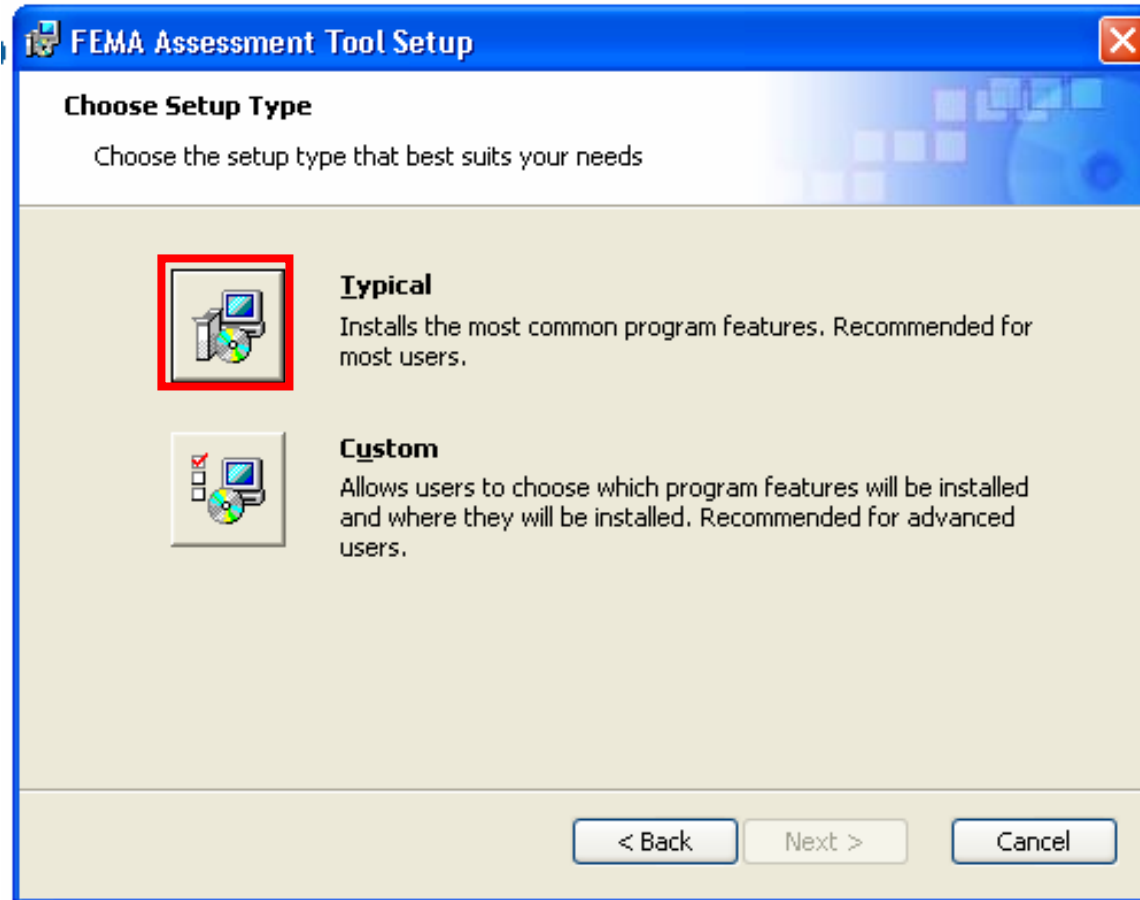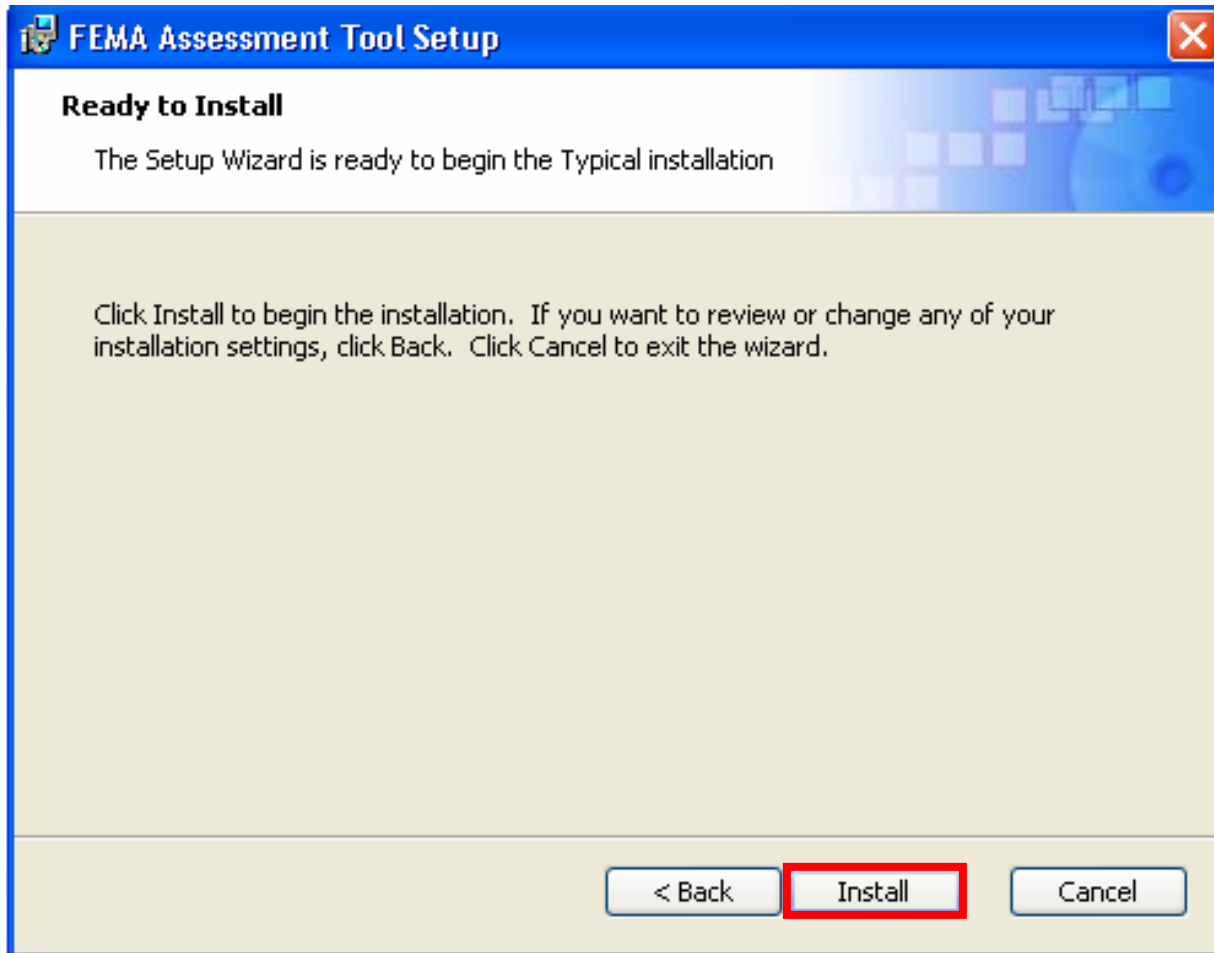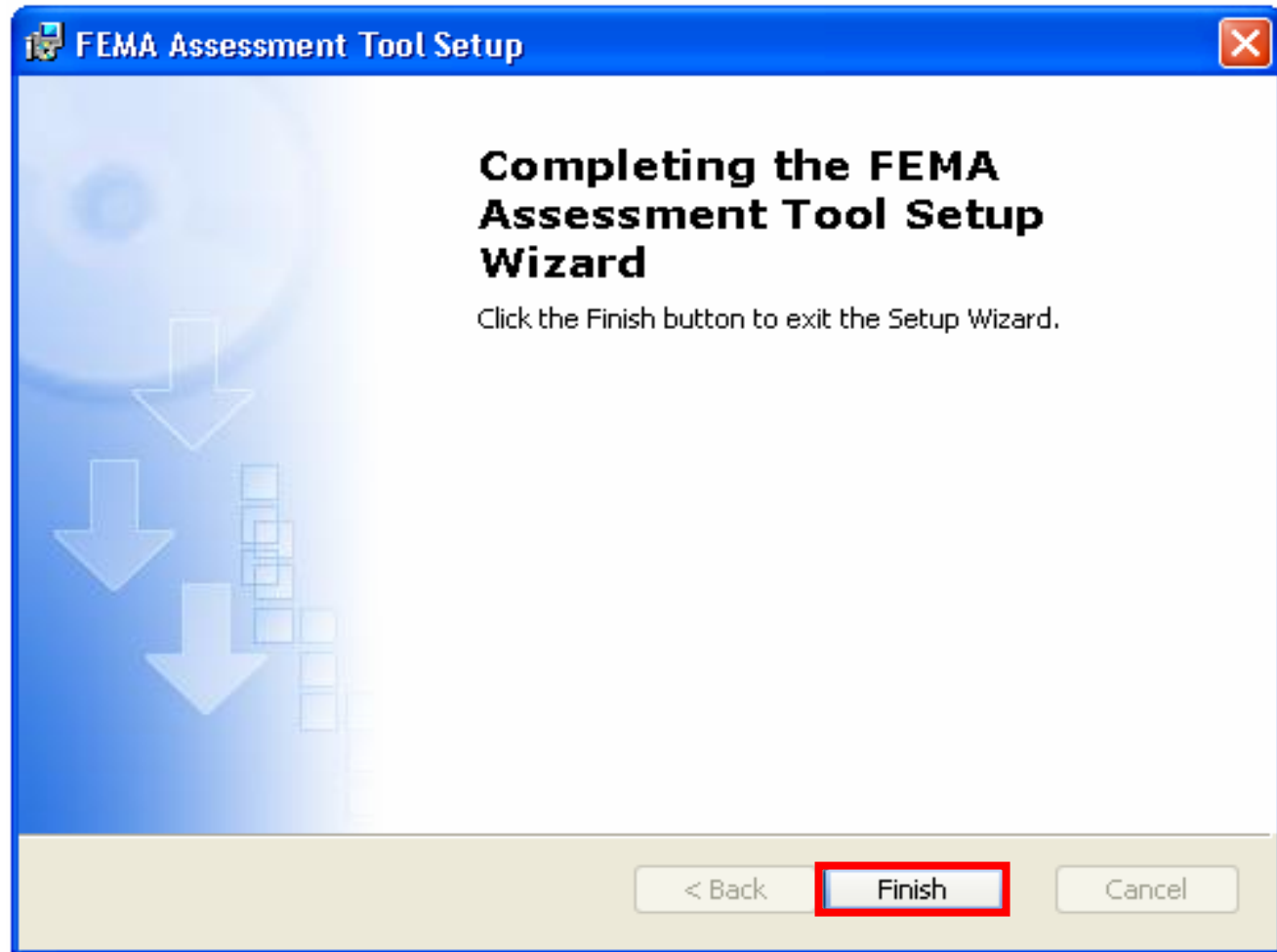
Program Installation

Program Installation

Program Installation

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**
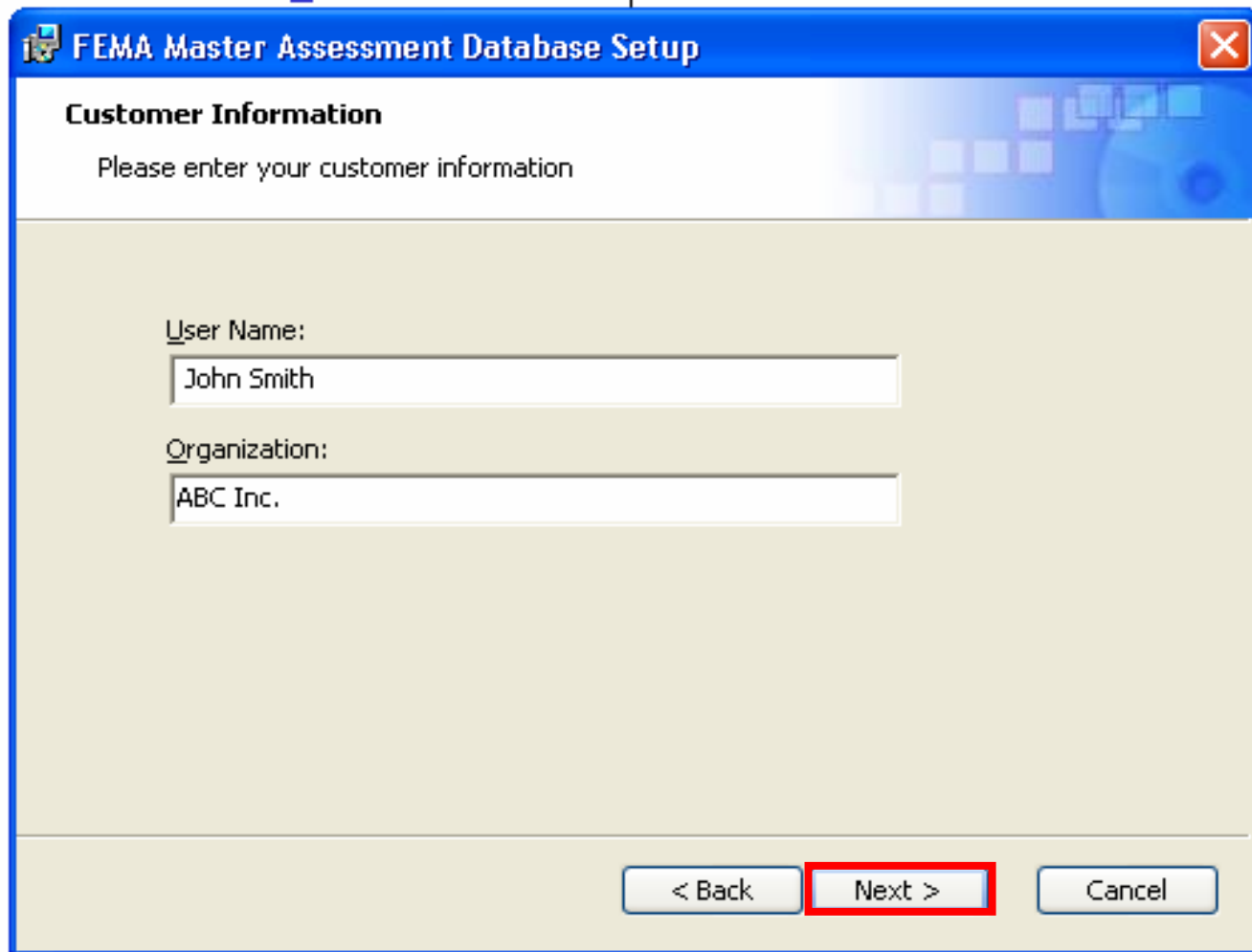
➡️ 🖥️ SETUP.EXE

📄 Autorun.inf

📁 Files

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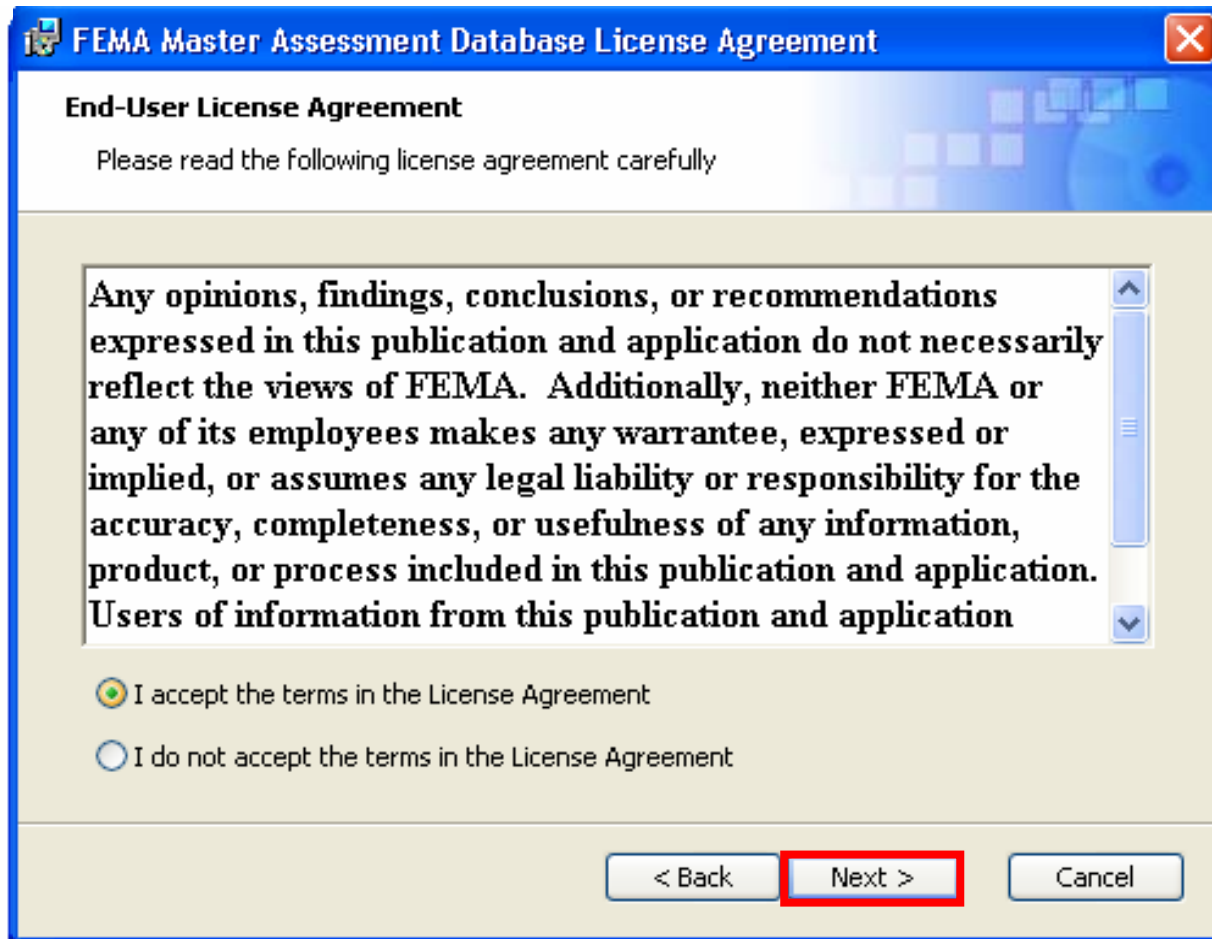
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Program Installation

Program Installation

FEMA Master Assessment Database License Agreement

End-User License Agreement

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< Back   Next >   Cancel

Program Installation
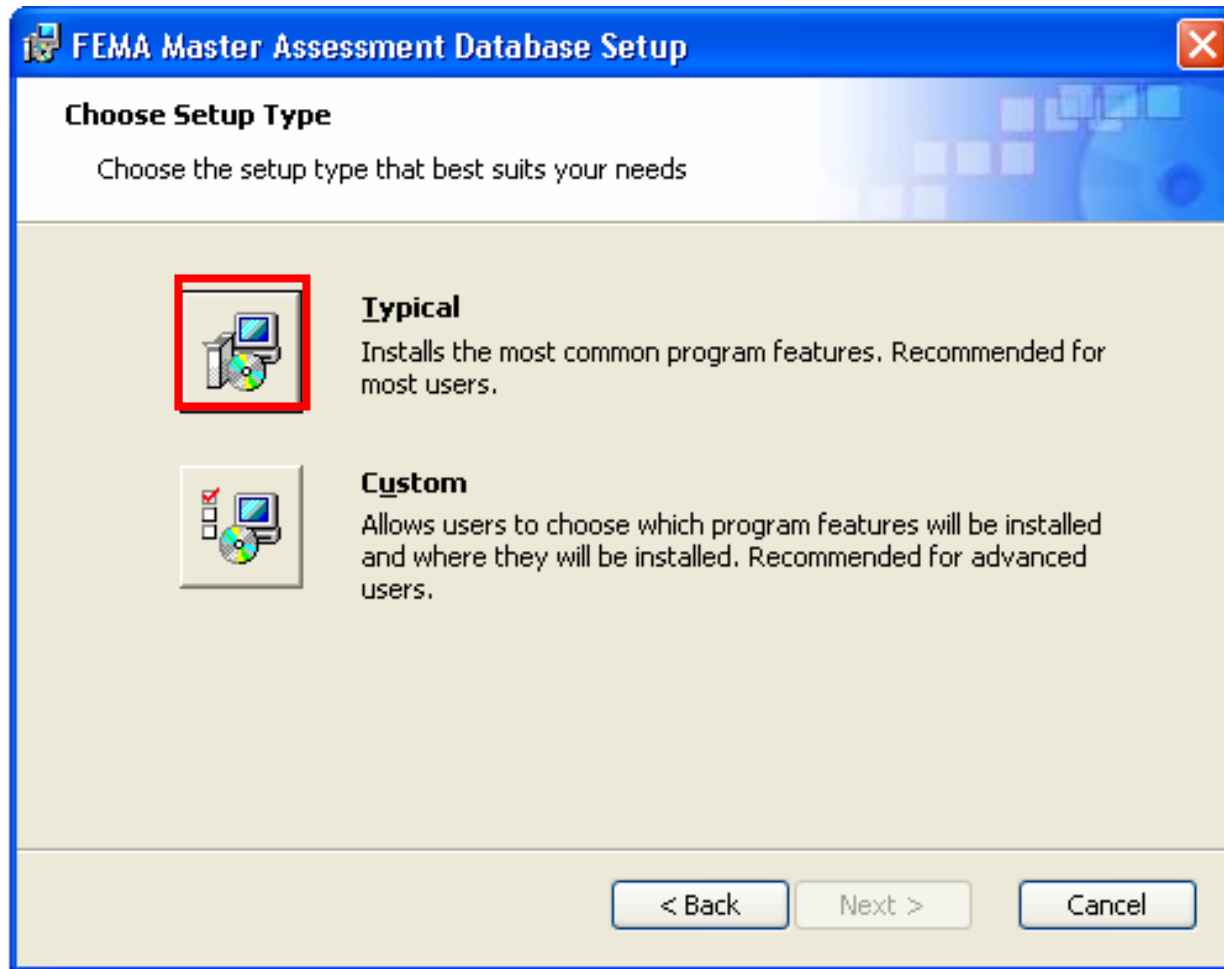
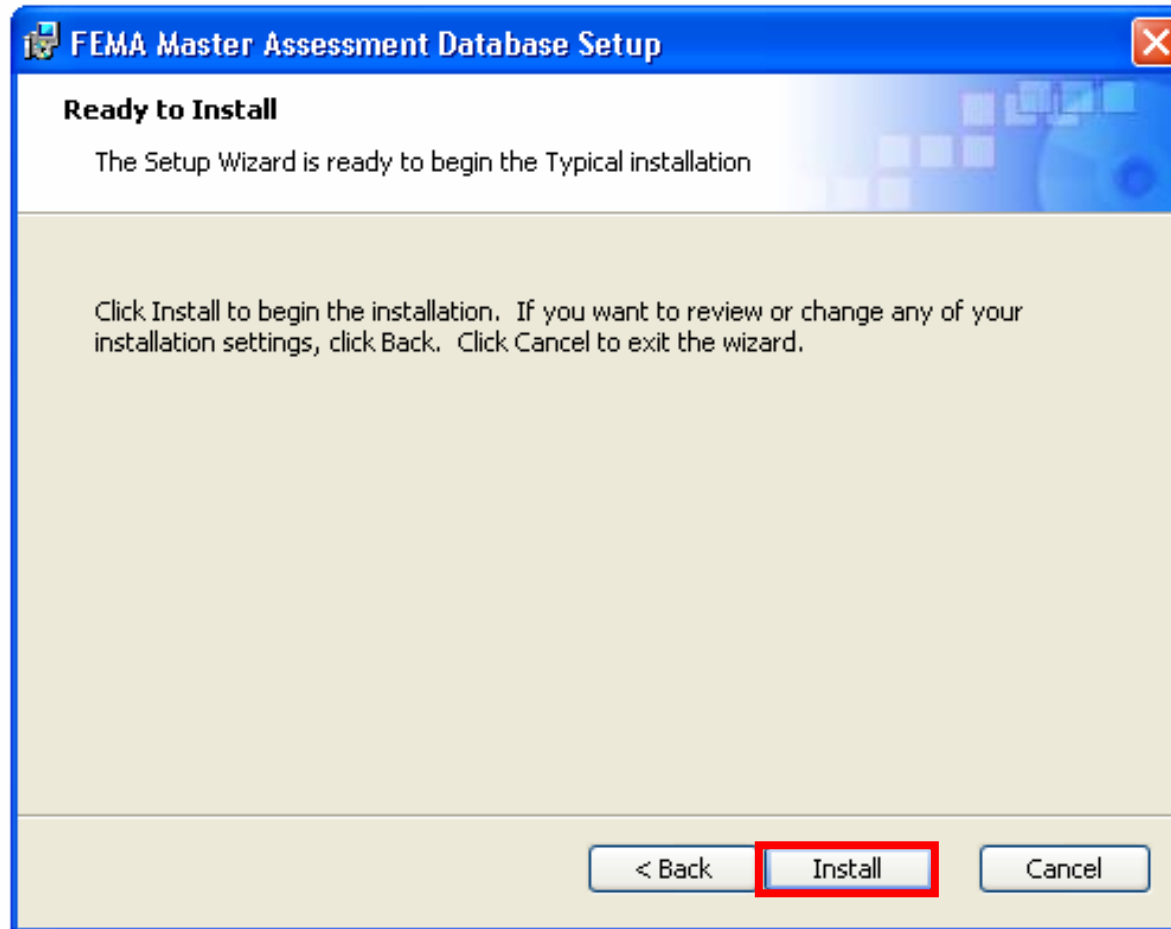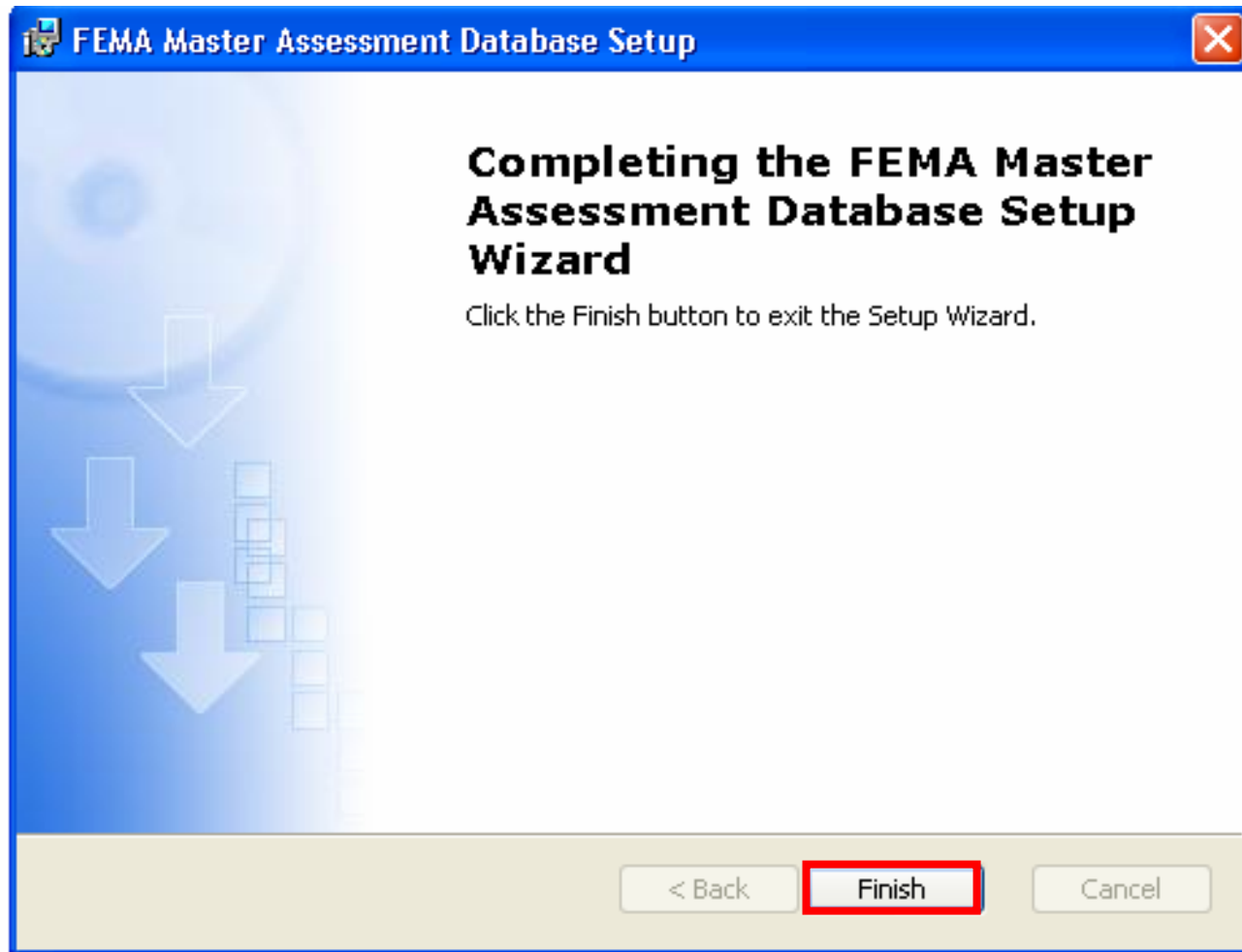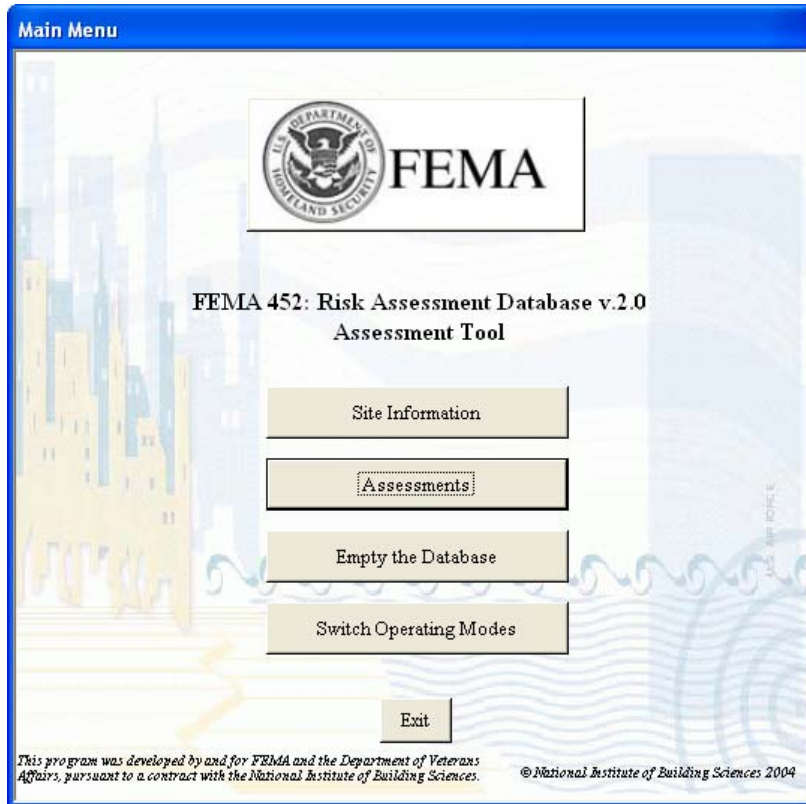# Program Installation

Program Installation

Program Installation

FEMA 452: Risk Assessment

Assessor Tool

Master Database

Database Structure
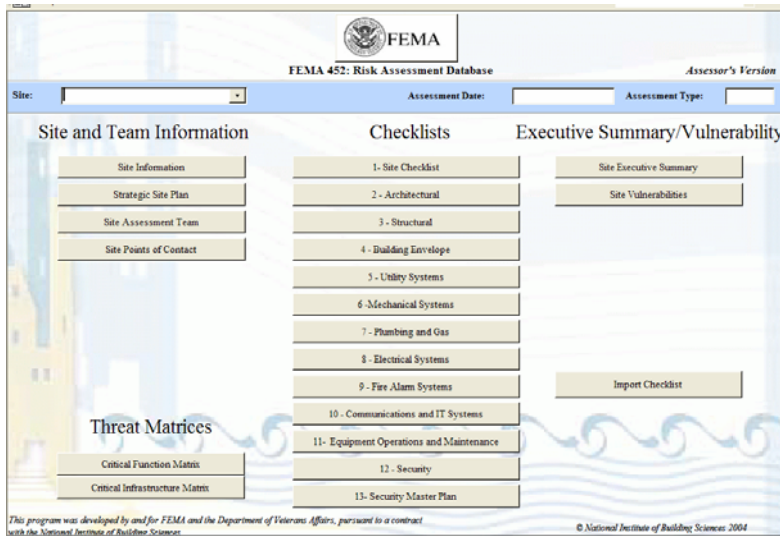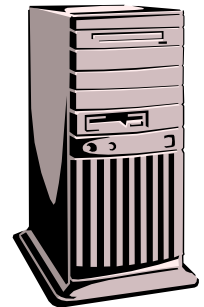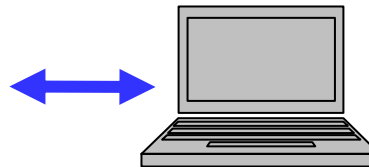

Import Assessment Data

Conduct Assessment

Analyze Data

Store Data

Master Database

Return Files, Pictures, Data

Assessor Tool (MS Access)

Assessor Tool

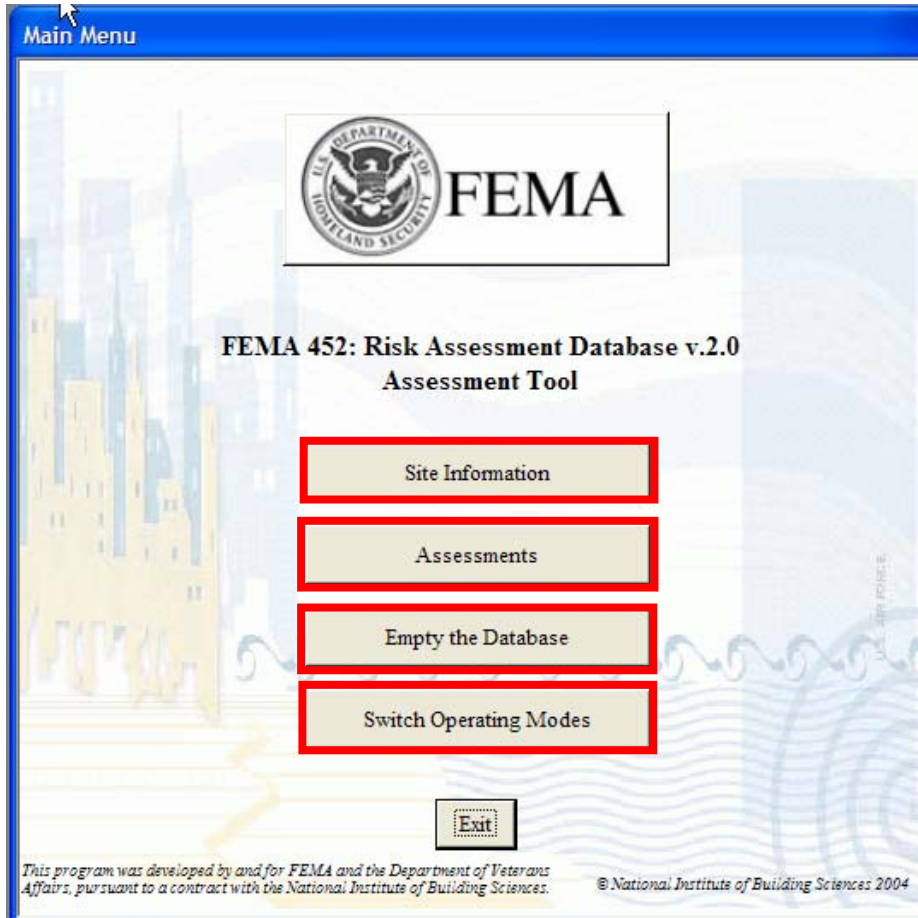**Master Database (MS Access)**

Open Assessor Tool
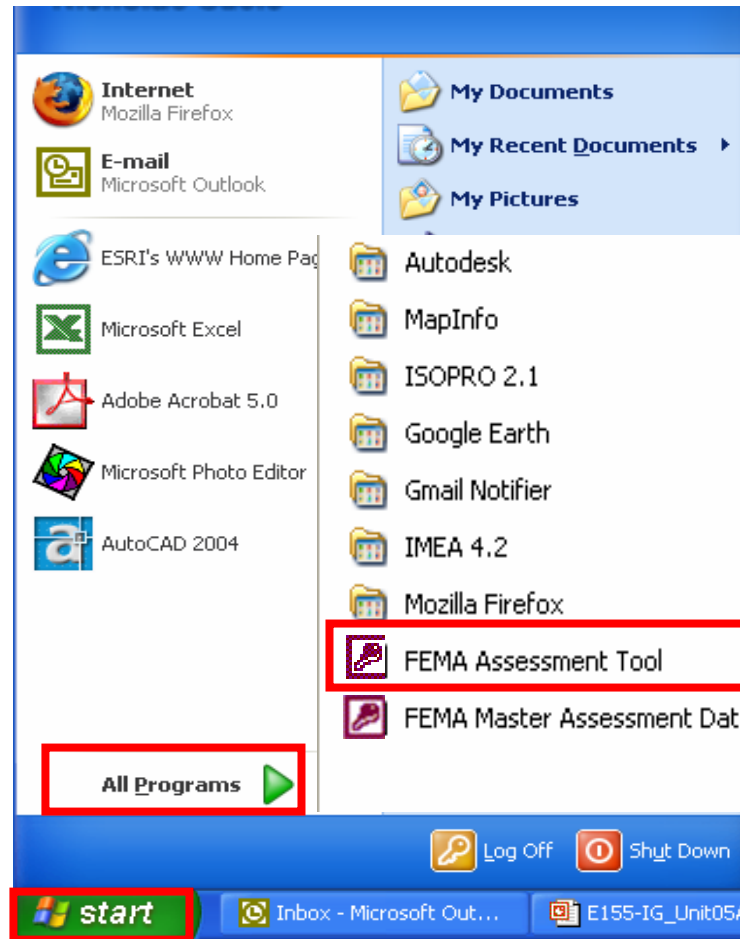
Login to Assessor Tool

Assessor Tool

- **Create and name assessment site**

- **Enter assessment screen**

- **Empty database**

- **Switch to Master Database Mode**

Site Information

Load Information

Open a second window with existing data

Load Information

Load Information

Assessor Tool

Add Team Members

Add Team Members

Team Members

Add Point of Contact

Add Point of Contact

Add Photos

Add Photos

Add Photos

Add GIS Images

Add GIS Images

Add GIS Images

Add Miscellaneous Files

* Same as photos and GIS images

Threat Matrices

Critical Functions Matrix

Threats →

Functions ↓

Critical Functions Matrix

Site Name: Hazardville Information Co. AssessmentDate: 10/01/2005 AssessmentType: Tier 1

Low Risk (1-6...)
Medium Risk ...
High Risk (>1...)

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

No.	Critical Function	Improvised Explosive Device (Bomb)				Chemical Agent				Arson/Incendiary Attack				Armed Attack				Biological Agent				Cyberterrorism				Agriterr...			
		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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	

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

Critical Infrastructure Matrix

Threats ➡️

Infrastructure ⬇️

Critical Infrastructure Matrix

Site Name: Hazardville Information Co.   AssessmentDate: 10/01/2005   AssessmentType: Tier 1

Low Risk (1-60) 🟩
Medium Risk (61-175) 🟨
High Risk (>175) 🟥

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

No.	Critical Infrastructure	Improvised Explosive Device (Bomb)				Chemical Agent				Arson/Incendiary Attack				Armed Attack				Biological Agent				Cyberterrorism				Agriterrorism			
		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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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)**

Checklists

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

[Close]

Record: |◀ ◀ |__3__| ▶ ▶| ▶* | of 23 (Filtered)

Checklists

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

Executive Summary

Executive Summary Tab

Vulnerabilities

Vulnerabilities and Recommendations

Assessment Team Import Function

Lead Assessor

Assessment Team

- **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.

Import Assessments

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				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				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				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

Close

Record: |◄| ◄| 1 |►| |►| |►*| of 23 (Filtered)

Critical Infrastructure Matrix   13- Security Master Plan

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Assessment Team Import Function

Close Assessor Tool

Empty Database
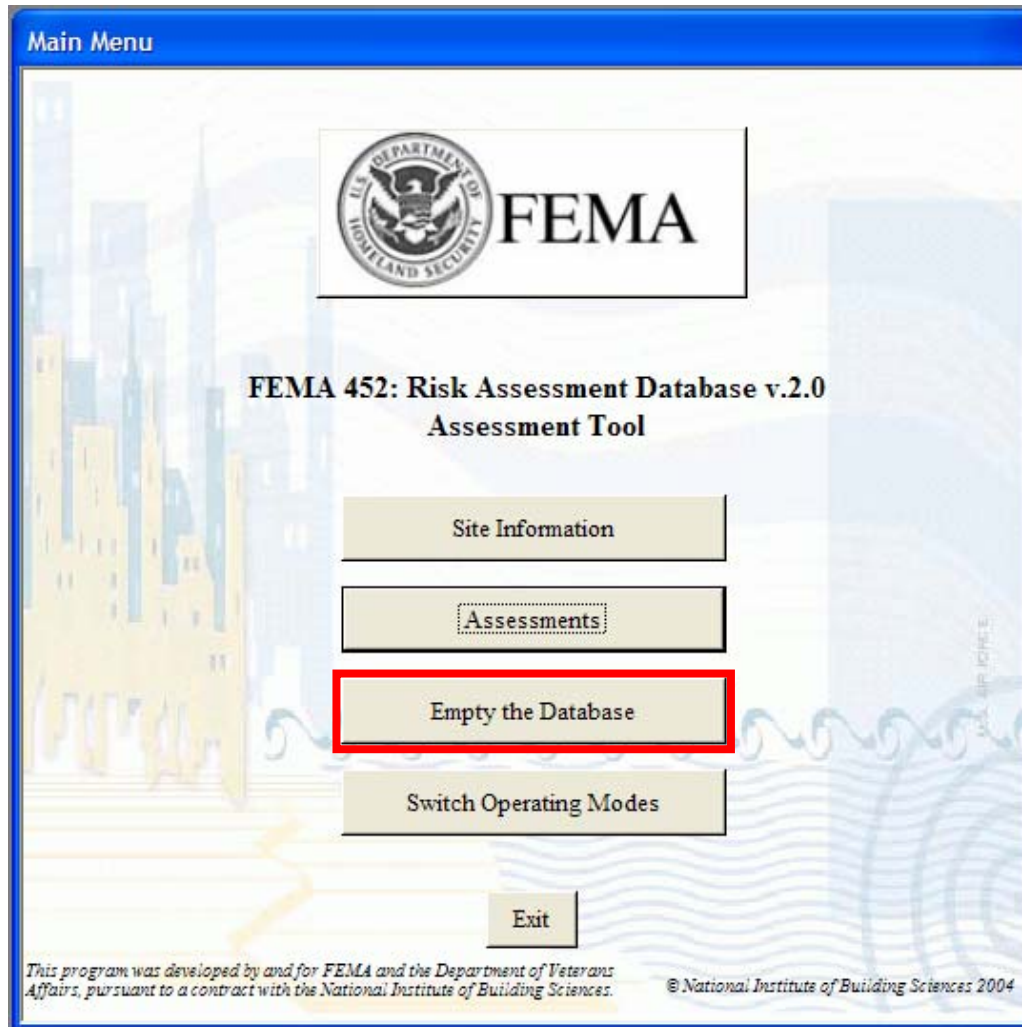
Switch to Master Database
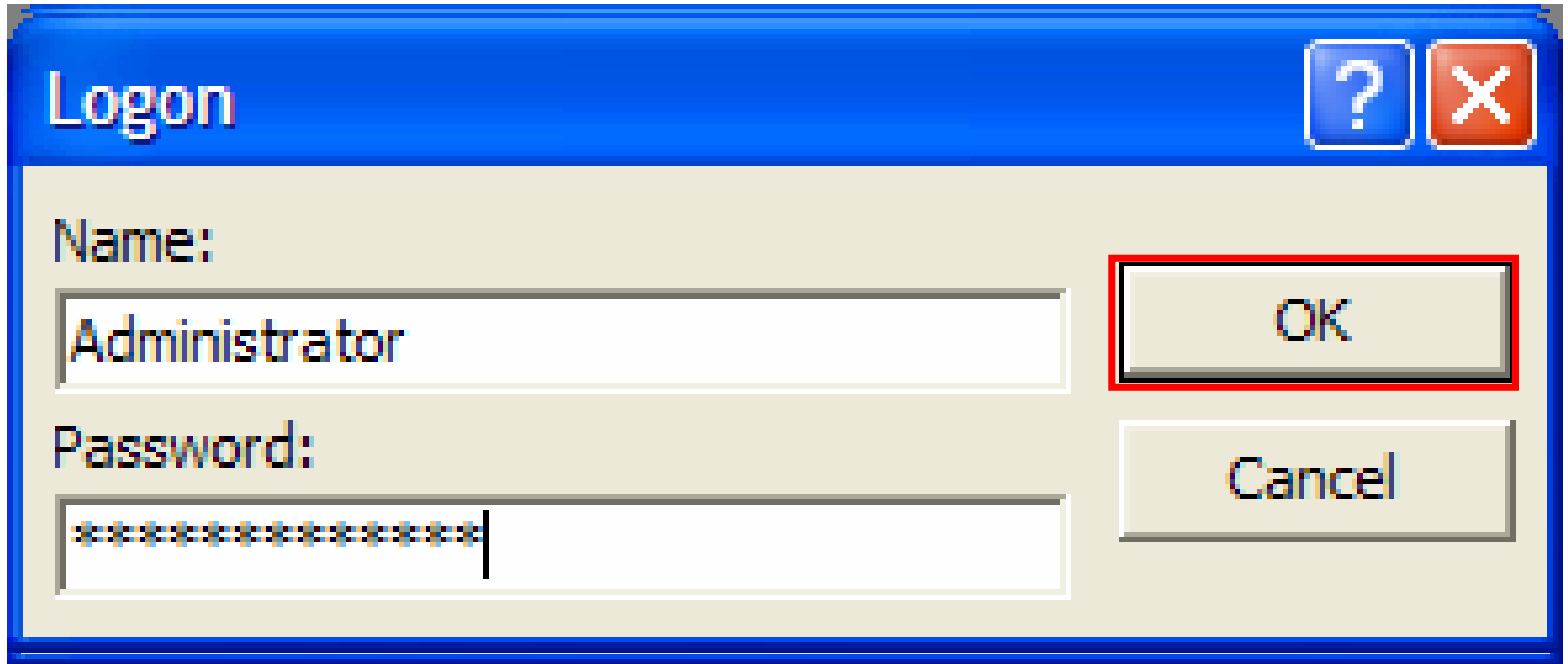
Master Database

Open Master Database

Login to Master Database

Logon

Name:

Administrator

Password:

****

OK

Cancel

Master Database

View Checklists

Reports

Reports

Executive Summary

Introduction

Hazardville Information Company (HIC) is a state-of-the-art information technology (IT) services company locted 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 deterent for vehicle-bome 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.

Reports

Threat Matrix

| | L54 | ▼ | fx | 0 | | | | | | | |

	A	B	C	D	E	F	G	H	I	J	K
10		1	5	10							
11	**Facility**										
12				**Improvised**	**Chemical**	**Arson / Incendiary**	**Armed**	**Biological**	**Cyberterrorism**	**Agriterrorism**	**Radiological**
13	**Core Process/Function**			**Explosive Device**	**Agent**	**Attack**	**Attack**	**Agent**			**Agnet**
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	45	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	810	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	Communications			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

\\ **Function Vulnerability** / Infrastructure Vulnerability /

Threat Matrix

K7

	A	B	C	D	E	F	G	H	I	J	K
11	**Facility**										
12				**Improvised Explosive Device**	**Chemical Agent**	**Arson / Incendiary Attack**	**Armed Attack**	**Biological Agent**	**Cyberterrorism**	**Agriterrorism**	**Radiological Agnet**
13	**Critical Infrastructure**										
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

Function Vulnerability / **Infrastructure Vulnerability**

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Other Reports

Observations and Recommendations/Remediations for Assessment Checklist

Site Name	Vulnerability Assessment Checklist #	Section Heading	Observation	Recommendation / Remediation
				Search 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		

Print View, Sort by Site   Print View, Sort by Checklist #   Close

Record: 1 of 216

Master Database

Vulnerability Assessment Checklist Search

Master Database

Master Database: Erasing One or All Assessments

Master Database: Import Function

Master Database: Import Function

Master Database: Import Function

Master Database: Import Function

Import Assessments

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

Link and Import from: F:\AssessorTool.mde

Show Detailed Results | Find a different Database | Import | ? | Close

Master Database: Import Function

Microsoft Office Access

? Are you sure you want to connect to and import from: F:\AssessorTool.mde?

[Yes] [No] [Cancel]

Master Database: Import Function

Microsoft Office Access

All 14 tables that were linked to: C:\Documents and Settings\tryan\My Documents\Temp File\FEMA_Assessment Tool\AssessorTool.mde
have been relinked to: F:\AssessorTool.mde
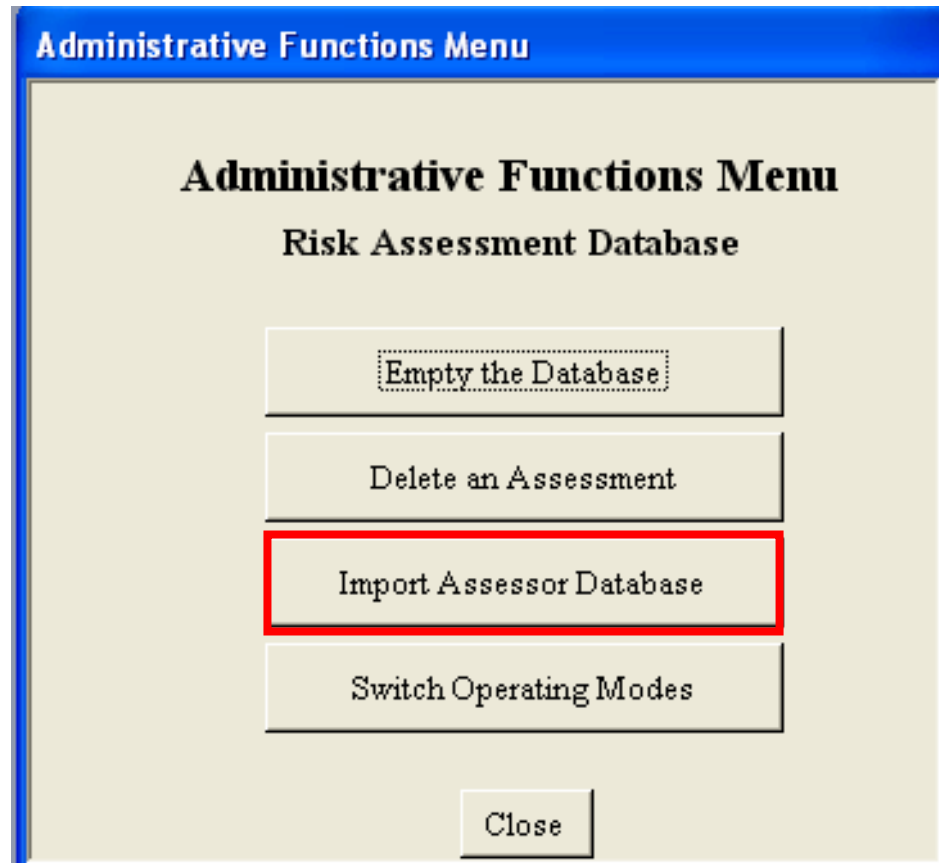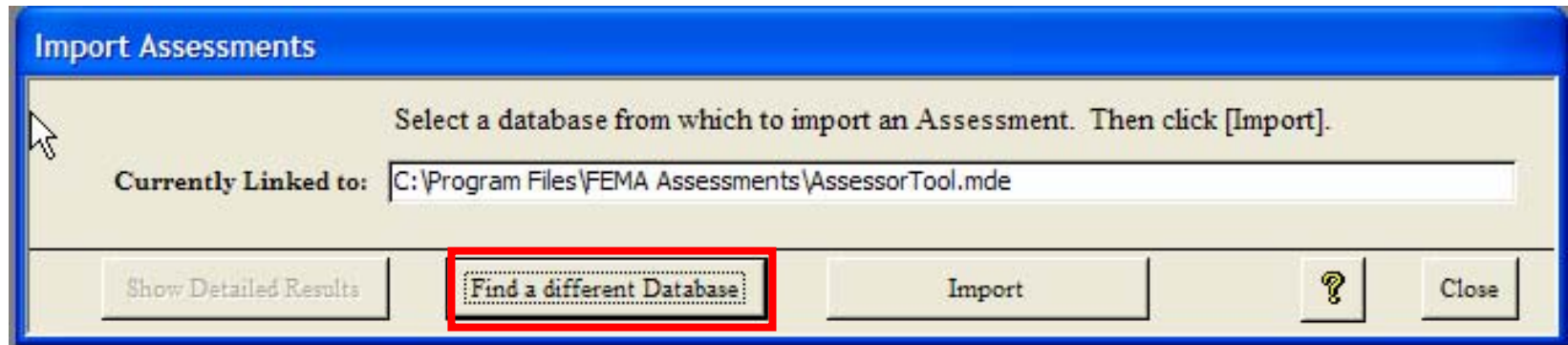
OK
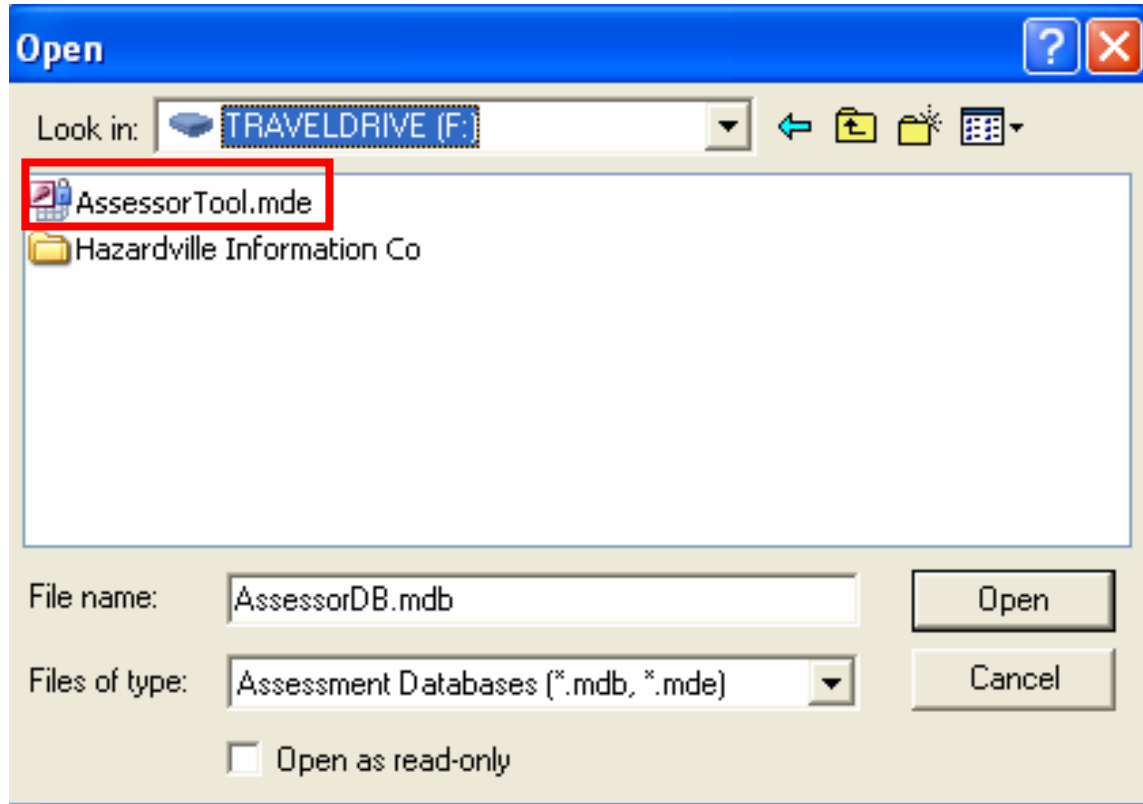
Master Database: Import Function

Master Database: Import Function

Master Database: Import Function
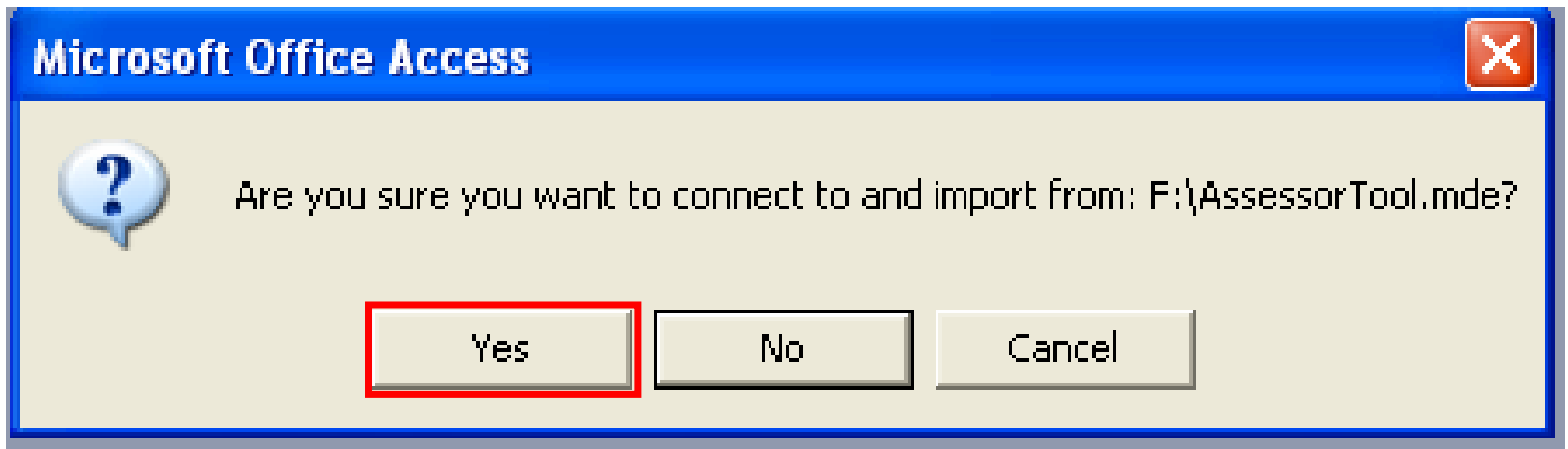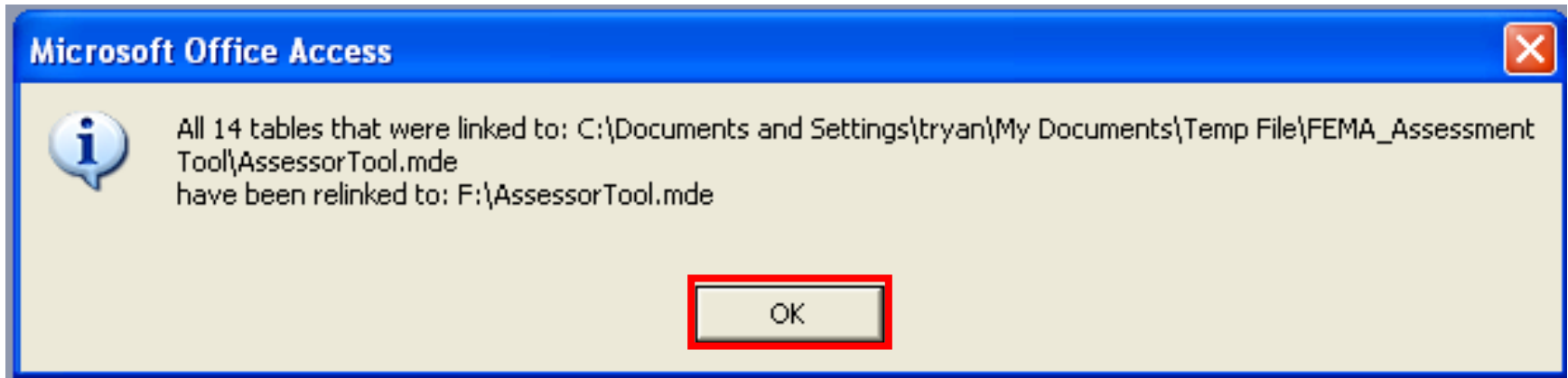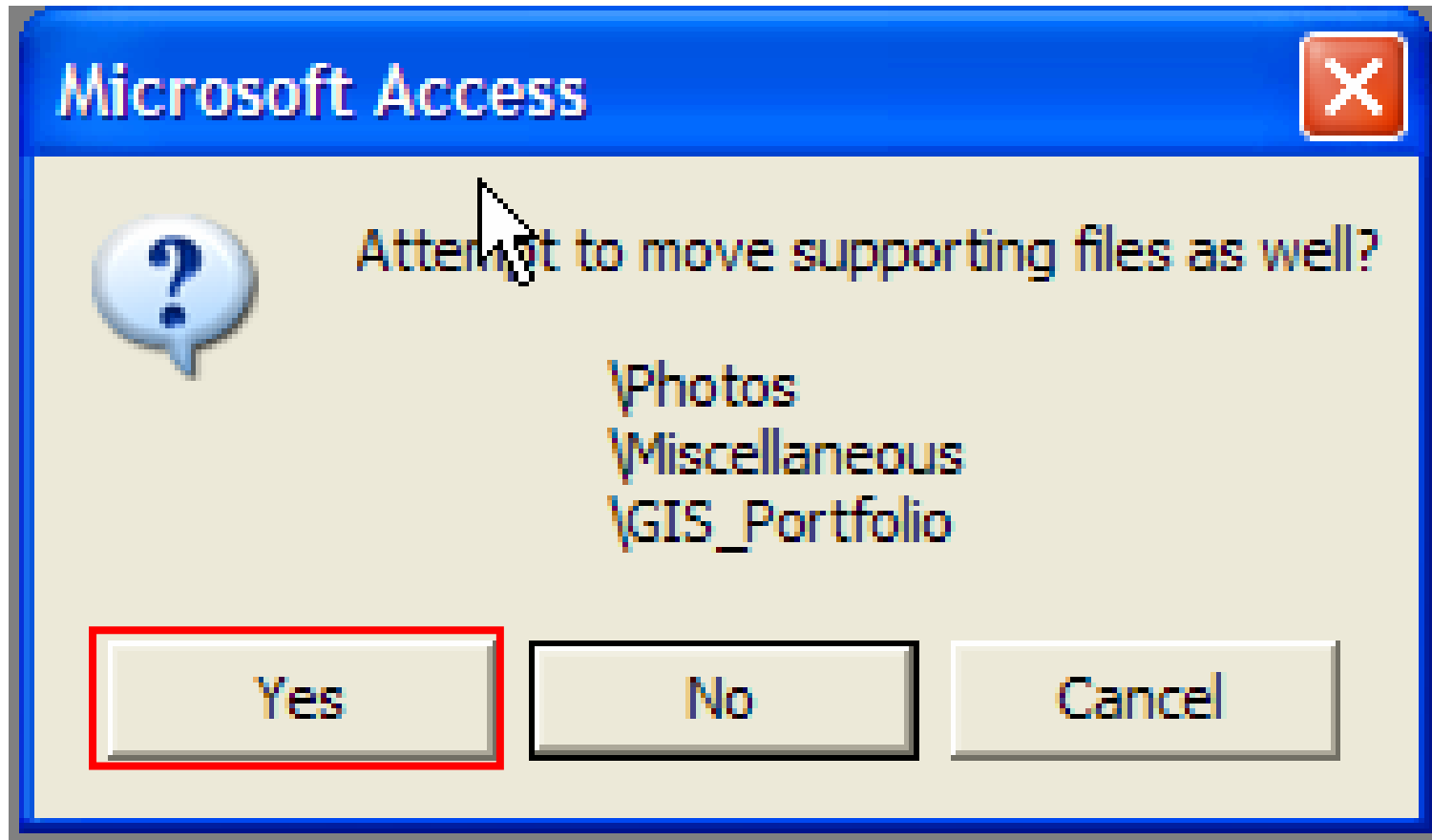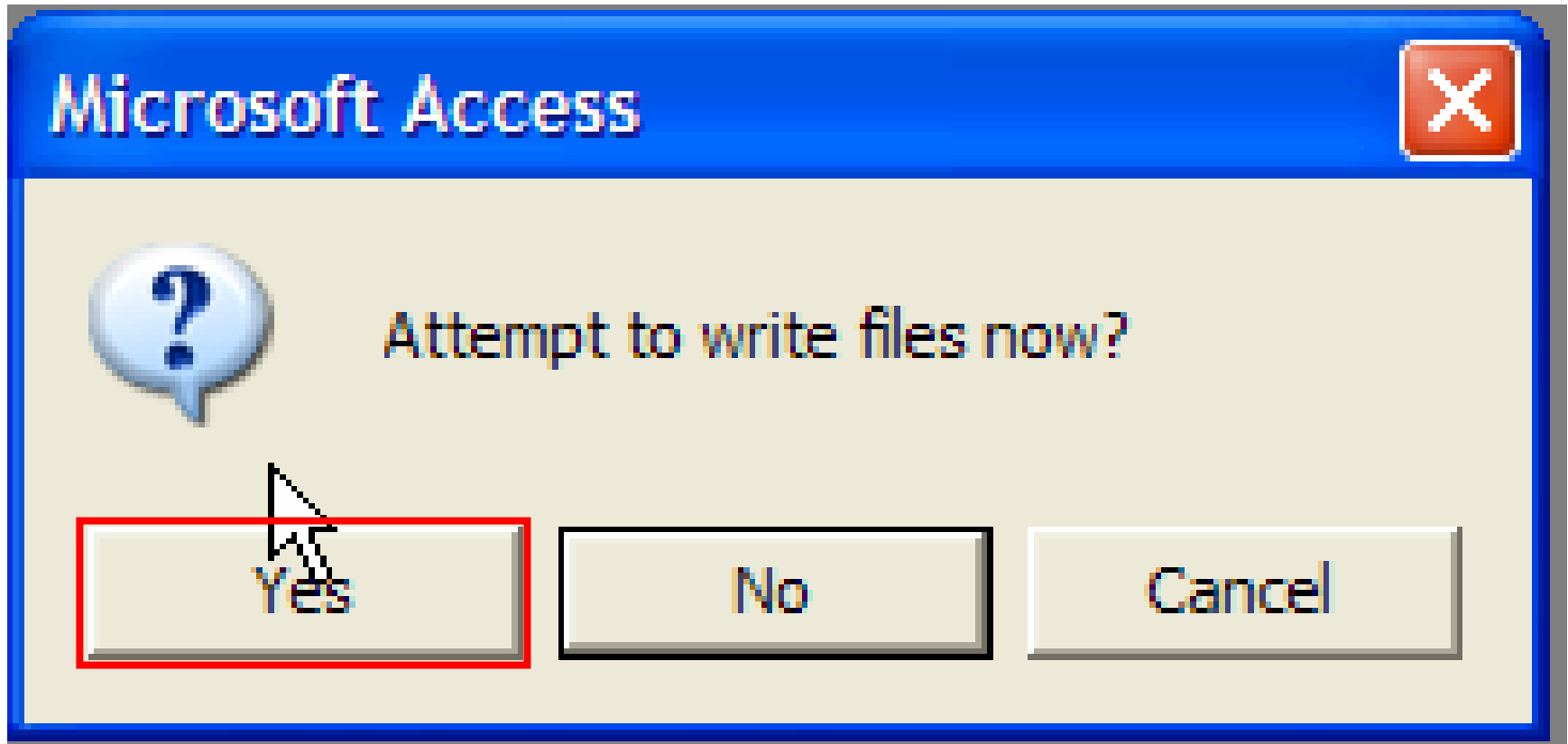
Master Database: Import Function

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

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