



USACE

Homeland Security



Portal

Michael Pace

ERDC, ITL



Vicksburg, MS

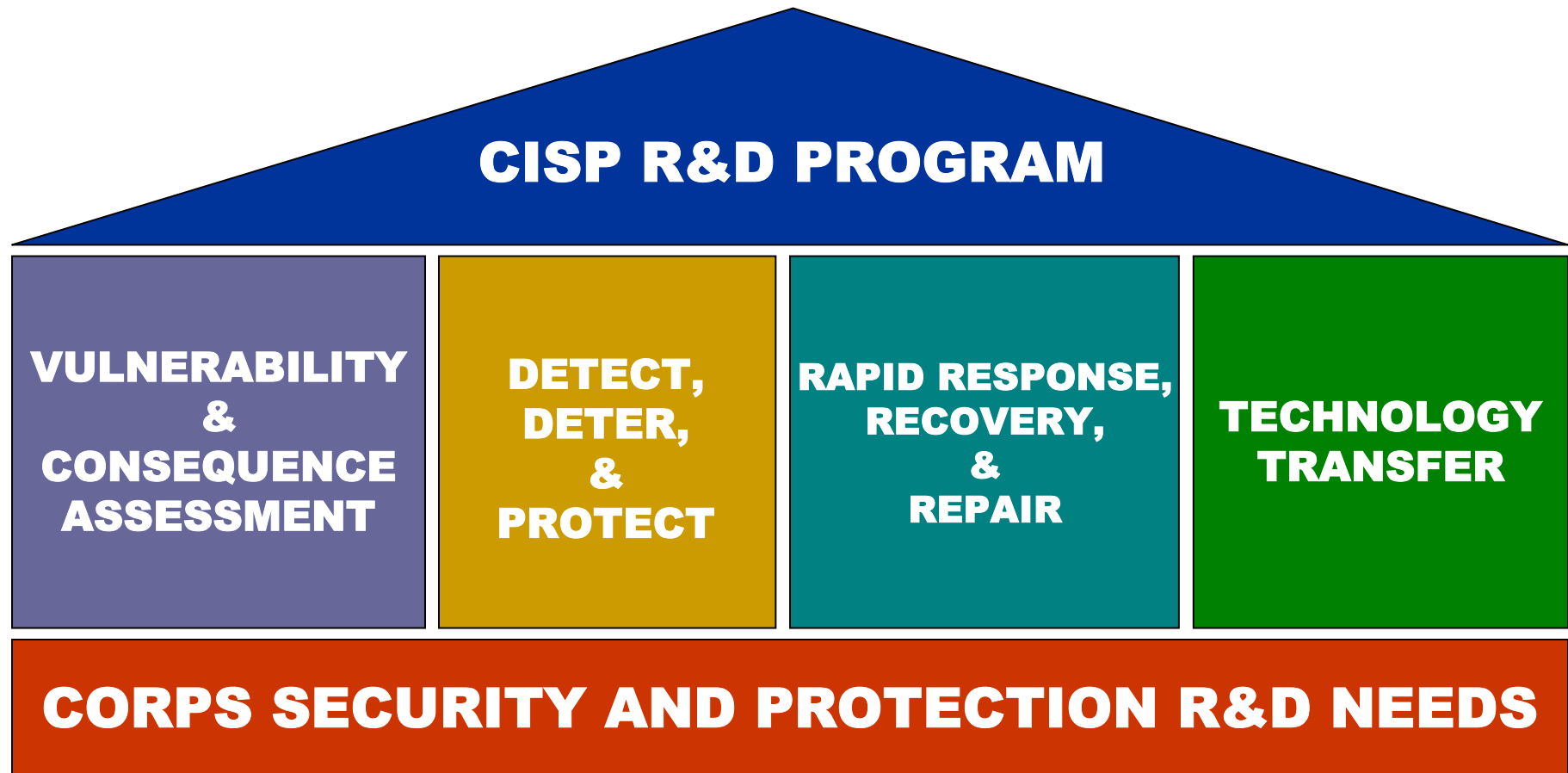
2005 Tri-Service Infrastructure Conference

St. Louis, MO

August 2005



CISP R&D Program Formulation

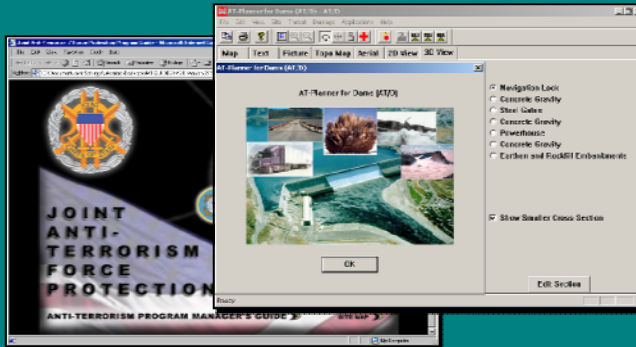


CISP Research Areas

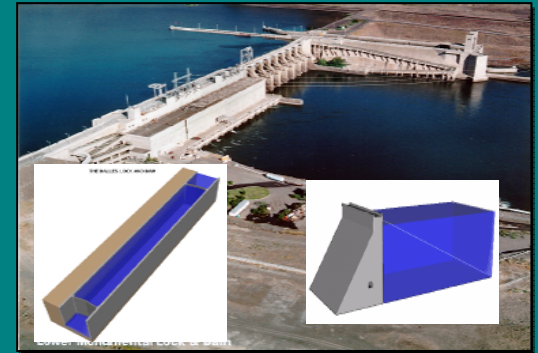
Threat Definition



Integrated Decision Aid



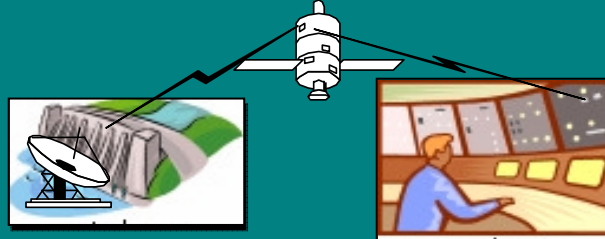
Facility Descriptions



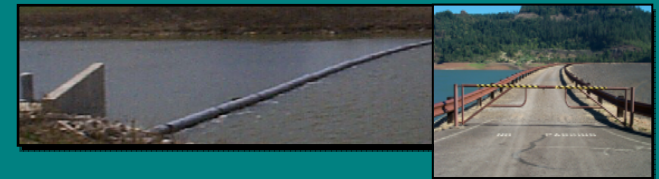
Blast Effects Damage Prediction



Regional Monitoring



Detect - Deter Protect



Recovery Measures



Consequence Assessment



Web Portal?

- Definition from Webopedia:
 - “Commonly referred to as simply a portal, a Web site or service that offers a **broad array of resources and services**, such as e-mail, forums, search engines, and on-line shopping malls. The first Web portals were online services, such as AOL, that provided access to the Web, but by now most of the traditional search engines have transformed themselves into Web portals to attract and keep a larger audience.”

Objective

- Develop framework for efficiently managing data, documents, and tools with easy, controlled access to support Homeland Security needs

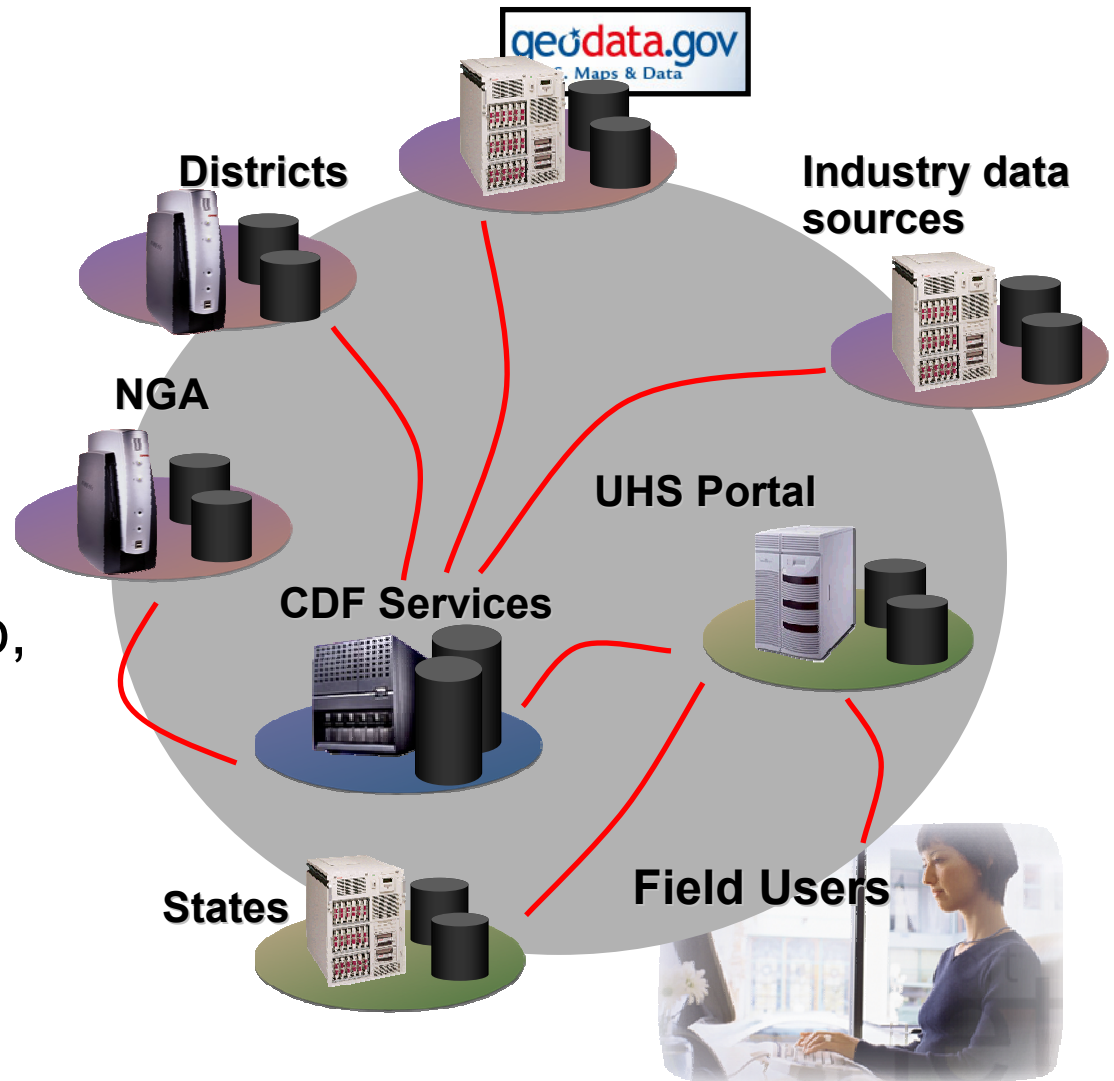
The screenshot displays the UHS USACE Homeland Security web application. The interface includes a navigation menu with links for Home, Tools, Projects, Demonstration Projects, Links, Forum, and R&D. A 'Threat Level' section indicates the current security level is 'ELEVATED'. A 'Project Selector' dropdown menu is set to 'Mississippi Valley Division', 'St. Louis District', and 'MELVIN PRICE LOCK and DAM'. A central map shows the region around the Mississippi River, with various project locations marked by red dots and labeled with codes like IA00001, IA00004, IA00005, IA00006, IA00009, IA00010, IA00012, IA00013, IA00014, IA00015, IA00016, IA00017, IA00018, IA00019, IA00020, IA00021, IA00022, IA00023, IA00024, IA00025, IA00026, IA00027, IA00028, IA00029, IA00030, IA00031, IA00032, IA00033, IA00034, IA00035, IA00036, IA00037, IA00038, IA00039, IA00040, IA00041, IA00042, IA00043, IA00044, IA00045, IA00046, IA00047, IA00048, IA00049, IA00050, IA00051, IA00052, IA00053, IA00054, IA00055, IA00056, IA00057, IA00058, IA00059, IA00060, IA00061, IA00062, IA00063, IA00064, IA00065, IA00066, IA00067, IA00068, IA00069, IA00070, IA00071, IA00072, IA00073, IA00074, IA00075, IA00076, IA00077, IA00078, IA00079, IA00080, IA00081, IA00082, IA00083, IA00084, IA00085, IA00086, IA00087, IA00088, IA00089, IA00090, IA00091, IA00092, IA00093, IA00094, IA00095, IA00096, IA00097, IA00098, IA00099, IA00100. A 'Tools' section at the bottom includes 'Threat Assessment' and 'Consequence Management'. A 'Links' sidebar on the right provides access to various resources like 'USACE Homeland Security', 'National Inventory of Dams', 'Digital Project Notebook', 'Digital Visual Library', 'TerraSever', 'Topzone', 'National Atlas', 'CorpsMap', 'Navigation Data Center', 'Navigation Charts by Corps District', 'Lock Characteristics', 'Hydropower Plants', 'ENGLink', 'Threats & Suspicious Incidents', 'DrChecks', and 'Operations and Maintenance Business Information Link'.

Portal Capabilities

- Serves as the download site for R&D and security-related tools or models and the data required to perform assessments
- Provides repository of information pertaining to projects
 - Content management
 - HQ, Division, District level can add or delete data
- Provides central place to archive and search for data, data sources, documents, tools
 - Search web portal plus USACE and business partners
 - Retrieves data of interest from varied sources
- Lite GIS capability for viewing/analysis of assets

Data

- Driven by tool requirements
- Data sources
 - USACE (DPN, ENGLink)
 - Federal (USGS, NGA, DHS, Geospatial One-stop, etc.)
 - State agencies
 - Industry (ESRI, etc.)
- Published links and automated data retrieval



Controlled Access

UHS
USACE
Homeland Security

Home

Home

Log-in

Welcome to UHS...

U-PASS ID

Web Portal Password:

Sign-in

Threat Level

This is the current security level as defined on the homeland security web-site.

ELEVATED
more...

UHS Announcements

Recent Additions

Threat Definition

Blast Effects Damage Prediction

Regional Monitoring

Recovery Measures

WEB Portal / Integrated Decision Aid

Facility Descriptions

Detect - Deter Protect

Consequence Assessment

Contact

Program Manager: Michael Sharp
Phone: 601-634-4127
Email: Michael.K.Sharp@erdc.usace.army.mil

Main Page

The screenshot displays the main page of the UHS (USACE Homeland Security) web application. The page layout includes a header with the UHS logo and navigation links (Home, Tools, Projects, Demonstration). A 'Threat Level' section shows the current security level as 'ELEVATED'. A 'Project Selector' allows users to choose a division (Mississippi Valley Division) and district (St. Louis District). A 'Search Facility' includes a search input field and a 'Start' dropdown. A 'Links' sidebar on the right lists various resources like 'National Inventory of Dams' and 'Digital Project Notebook'. A central map shows dam locations with red markers and includes map controls like 'Zoom', 'Re-center', and 'Query'. A 'Tools' section at the bottom offers 'Threat Assessment' and 'Consequence Management'. A 'FAQs' section is also visible on the left side.


Threat Level

Links to resources

Search Facility

**Announcements
Recent Additions
FAQs**

Main Page



Welcome u4idemep! | Home | Logoff

Home | Tools | Projects | Demonstration Projects | Links | Forum | R&D

Threat Level

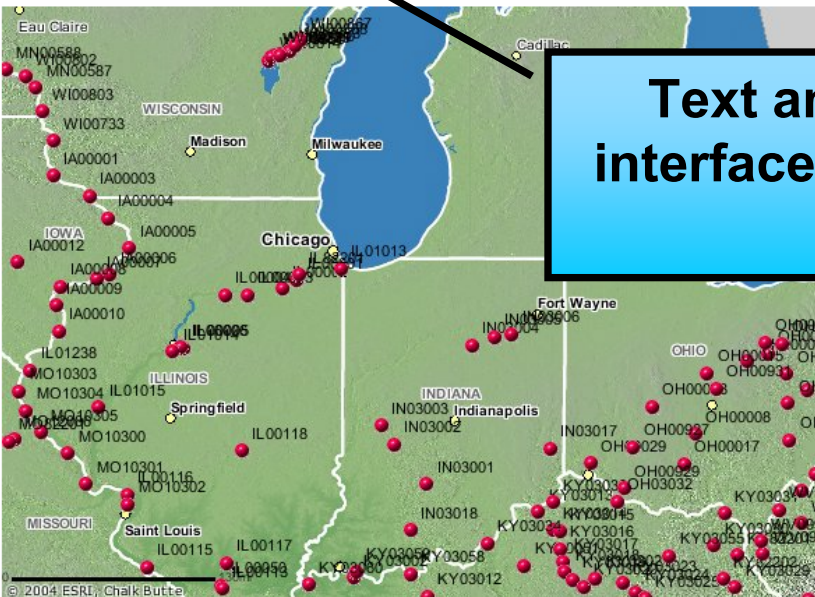
This is the current security level as defined on the homeland security web-site.

ELEVATED more...

Project Selector

Mississippi Valley Division | St. Louis District | MELVIN PRICE LOCK and DAM

Select a Project



Location: 44.7346 N 88.5445 W

Links

- USACE Homeland Security
- National Inventory of Dams
- Digital Project Notebook
- Digital Visual Library
- TerraSever
- Topozone
- National Atlas

Search

Search [] Start 1

UHS Announcements

Recent Additions

FAQs

Q: Where do I start?
A: For general information on a dam, select a dam using the map or use the pick lists in the project selector.
For general information on the tools available, click on the tools tab at the top of the page.

Tools

Threat Assessment | Consequence Management

Refresh

Reset

Corps Districts

Corps Divisions

Threats & Suspicious Incidents

DrChecks

Operations and Maintenance Business Information Link

Text and Map based interface for selection of asset

Main Page

UHS Announcements

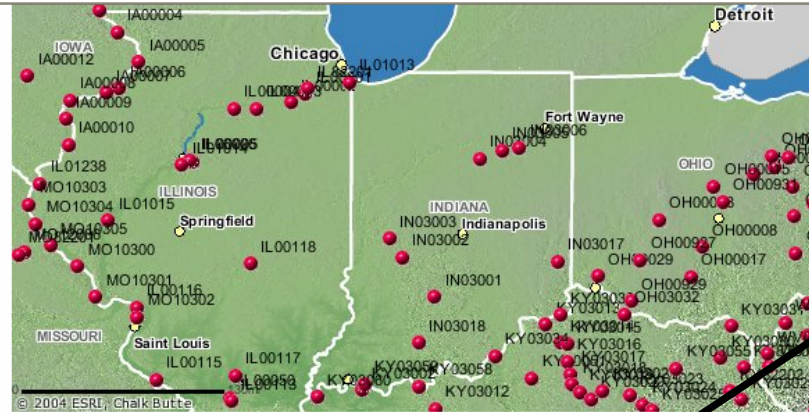
Recent Additions

FAQs

Q: Where do I start?
A:

For general information on a dam, select a dam using the map or use the pick lists in the project selector.

For general information on the tools available, click on the tools tab at the top of the page.



Location: 44.7346 N 88.5445 W

Zoom Out

- Corps Dams
- Corps Districts
- Corps Divisions

- ▶ Lock Characteristics
- ▶ Hydropower Plants
- ▶ ENGLink
- ▶ Threats & Suspicious Incidents
- ▶ DrChecks
- ▶ Operations and Maintenance Business Information Link

Quick access to tools

Tools

Threat Assessment

- TSI Database
- SEPA Process - PDC

Consequence Assessment

- Assessment of Relief Well Damage to Embankments
- 2D Dam Break - Adaptive Hydraulics Model
- Scour and Erosion

Protection Methods / Design Guides

- Waterside protection
- Waterborne attack detection
- Mitigation of Truck Bomb Craters on Embankment Dams
- Regional Monitoring

Consequence Management

- Rapid Recovery for Lock and Dam Gates

Vulnerability Assessment

- AT Planner for Dams
- AT Planner for Buildings
- BEEM
- CONWEP
- Bridge Tools

Risk Assessment

- RAM-D (spreadsheet version)
- DAMSVR

JAT/FP Tools

Contact

Program Manager: Michael Sharp
Phone: 601-634-4127
Email: Michael.K.Sharp@erdc.usace.army.mil

Tools

The screenshot displays the UHS USACE Homeland Security website interface. At the top, there is a navigation bar with links for Home, Administration, Tools, Projects, Demonstration Projects, Links, Forum, R&D, and Publisher. A user is logged in as 'u4idemep!'. The main content area is titled 'Overview' and features a grid of tool categories: 'Blast Effects Damage Prediction', 'Regional Monitoring', 'Recovery Measures', 'Consequence Assessment', 'Detect - Deter Protect', and 'WEB P Integr Decision Aid'. A left-hand menu lists various tool categories, with 'AT Planner for Dams' highlighted. A blue callout box with the text 'Selection of tool from categorized list' and an arrow points to this specific tool.

Tools

The screenshot displays the UHS USACE Homeland Security website interface. The top navigation bar includes links for Home, Administration, Tools, Projects, Demonstration Projects, Links, Forum, R&D, and Publisher. The main content area is titled 'Tools > Vulnerability Assessment > AT Planner for Dams'. Three callout boxes with arrows point to specific sub-sections: 'Installation and Operation', 'Example Problems', and 'Technical Documents'. The left sidebar contains a menu with categories like JAT/FP, Threat Assessment, Consequence Assessment, Prot. Method/Design Guides, Consequence Management, Vulnerability Assessment, Risk Assessment, General Info, POC (Matt Hossley), and Download.

Installation and Operation

- ATP Dams Dam Section Overview.pdf
- ATP Dams Introduction.pdf
- ATP Dams Program Menus.pdf
- ATP Dams Site Selection.pdf
- Capabilities and limitations ATP Dams 1.0.pdf
- Dam Section Definition.pdf
- Installation Instructions.doc
- Threat Definitions.pdf

Example Problems

- Demo Concrete Gravity C-1.pdf
- Demo Concrete Gravity C-2.pdf
- Demo Concrete Gravity C-3.pdf
- Demo Concrete Gravity C-4.pdf
- Demo Earthen Dam E-1.pdf
- Demo Navigation Lock L-1.pdf
- Demo Tainter Gate G-1.pdf

Technical Documents

- 74th Shock and Vibration Symposium B 30 October 03.ppt
- dec2003.ppt
- L24-S&V-2003-damcratering.ppt
- Modeling Explosions Near Water Surface.ppt
- OCT_21_03_Davis.ppt
- S&V2003Steel.ppt

Project Info

The screenshot displays the UHS USACE Homeland Security website interface. At the top left is the UHS logo with the text "USACE Homeland Security". A navigation menu includes "Home", "Administration", "Tools", "Projects", and "Demos". A "Welcome u4idemep!" message is visible in the top right corner. The main content area is divided into sections: "Project Selector" with dropdown menus for "Mississippi Valley Division", "St. Louis District", and "MELVIN PRICE LOCK and DAM"; "AT Planner for Dams" with a link to download data; and "Data Sources" listing various resources like National Atlas, National Map, Navigation Data Center, etc. Three blue callout boxes with black borders and arrows point to specific elements: "Quick access to other sites" points to the navigation menu; "Download of AT Planner for Dams specific information" points to the download link; and "Links to data sources (some are dynamic)" points to the list of data sources.

Quick access to other sites

Download of AT Planner for Dams specific information

Links to data sources (some are dynamic)

Project Info (NID)

National Inventory of Dams - Details - Microsoft Internet Explorer

Address: <http://crunch.tec.army.mil/nid/webpages/nidetails.cfm?nidid=IL00116>

National Inventory of Dams

DETAILED INFORMATION

Dam Name : MELVIN PRICE LOCK & DAM

NID ID :

Record Number : 100217.0

Dam Name : MELVIN PRICE LOCK & DAM

Other Dam Name : MISS RIVER

Dam Former Name : LOCKS & DAM 26R

State ID : 00902

NID ID : IL00116

Longitude : -90.1833

http://crunch.tec.army.mil/nid/webpages/nidviewpictures.cfm?ID=100217&ACC=1 - Microsoft Internet Explorer

Address: <http://crunch.tec.army.mil/nid/webpages/nidviewpictures.cfm?ID=100217&ACC=1>

MELVIN PRICE LOCK & DAM



Record : 100217.0

Dam Name : MELVIN PRICE LOCK & DAM

NID ID : IL00116

City : ST LOUIS METRO AREA

County : ST CHARLES

Dam Type : CNOT

Dam Purposes : NR

Year Completed : 1990

Hazard Potential : S

NID Height : 77.0

Dam Length : 1700.0

Surface Area : 30000.0

NID Storage : 238000.0

Drainage Area : 171470.0

Max Discharge : 660000.0

Owner Name : CEMVS

State Regulated : N

State Regulated : NONE

Agency : CE

Source Agency : CE

Located In : IL

APRIL 1995

Address: <http://crunch.tec.army.mil/cdn/images/mvs/mvsnpr175.jpg>

Project Info (DPN)

Civil Works
Digital Project Notebook

DETAILED INFORMATION

Weather

Project General Information

Record Number : 1124
Congressional Project Name : MELVIN PRICE LOCK AND DAM, IL & MO
PWI : 902
Authorization : PL 95-502
Current Progress : In Progress
Project Type : B : Construction, General
Category/Class/SubClass : 220 : Navigation, Locks and Dams
Condition of Improvement : 09/30/1997
Date of Database Update : 12/30/1996
Deep Draft : No

Project Organization Information

CORPS OF ENGINEERS

U. S. ARMY

ILLINOIS
WABASH COURSE

MISSOURI
AT CHURCH CREEK

PLAN

UPSTREAM ELEVATION

VELOCITY MAP

MELVIN PRICE LOCK AND DAM

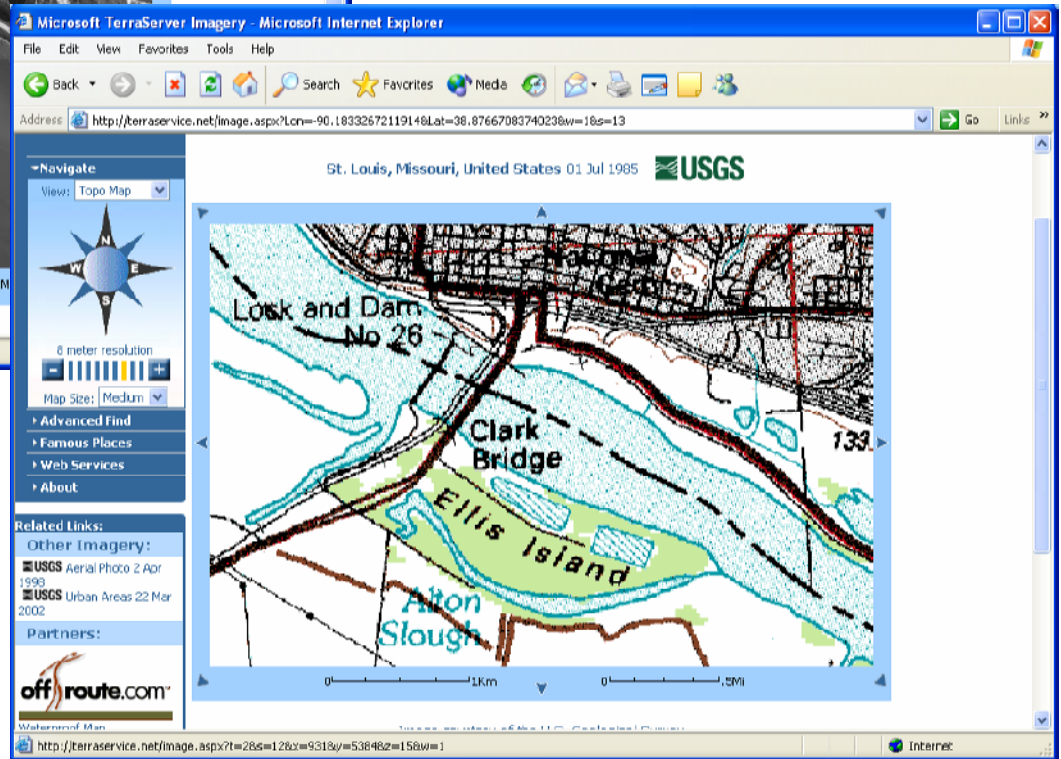
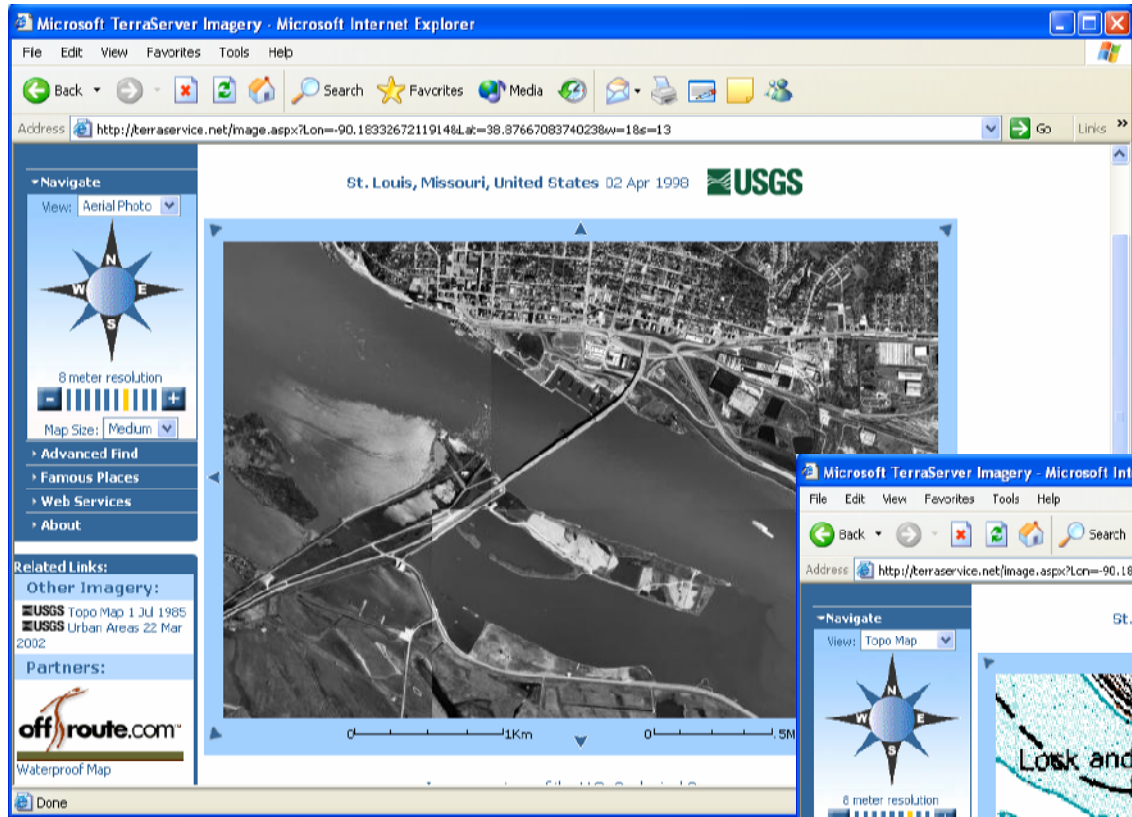
SEPTEMBER 1964

INTERMEDIATE PLAN

Project Info (DVL)

The screenshot shows a Microsoft Internet Explorer browser window titled "Advanced Search Results - Microsoft Internet Explorer". The address bar contains the URL: <http://images.usace.army.mil/scripts/PortWeb.dll?query&catalog=photoDVL&field5=PROJECT>. The page content includes a navigation menu on the left with links for Home, Photo Library, new images, advanced search, division search, state search, subject search, and help. The main content area features a "Digital Visual Library" header with a castle icon and a "Photo Library" sub-header. Below this is a "Search Results" section indicating "Found 5 images. 1". Five thumbnail images of the Melvin Price Lock & Dam are displayed in a grid. Each image has a caption that reads "Project/Title: Melvin Price Lock & Dam". At the bottom of the page, there is a paragraph of text: "These are the images that meet the criteria you have selected. If no images are found, try the search again with different search criteria or use a different search method. For more details and a larger view of an image, click on the individual thumbnail image. Click on the next page link to navigate through the search result pages or click on the individual page numbers."

Project Info (TerraServer)



Demonstration Project

UHS
USACE
Homeland Security

Welcome u4idemep! | Home | Logoff

Home | Administration | Tools | Projects | **Demonstration Projects** | Links | Forum | R&D | Publisher

General Information

- Demonstration project outline More...
- Demonstration Project Overview More...
- Demonstration Project - Proposed Procedure More...

Examples

- Demo Concrete Gravity C-1.pdf More...
- Demo Concrete Gravity C-2.pdf More...
- Demo Concrete Gravity C-3.pdf More...
- Demo Concrete Gravity C-4.pdf More...
- Demo Earthen Dam E-1.pdf More...
- Demo Exercise No C-1 Gravity Dam - Untamped Truck Bomb More...
- Demo Exercise No C-2 Gravity Dam - Boat Bomb More...

Project Location

TerraServer USA
Search TerraServer

Street
City
State

GO

Longitude: -91.03580 Latitude: 33.93656

GO

ClickWeather.com
Click to get Weather Forecast Maps for this point

Powered by

The National Map 5 km N of Rosedale, Mississippi, United States 1/25/2001

Download | E-mail | Info

Aerial Photo

Size

OUT NORTH WEST IN

AT Planner for Dams

Download AT Planner for Dams data for this dam

Data Sources

- National Inventory of Dams
- Digital Visual Library
- CorpsMap
- Digital Project Notebook
- DRCHECKS
- Terraserver
- Topozone

Tools

- Vulnerability Assessment**
 - AT Planner for Dams
- Consequence Management**

FAQs and Forum

The screenshot shows the UHS USACE Homeland Security website. At the top left is the logo with the text "UHS USACE Homeland Security" and an image of a dam. The top right corner says "Welcome u4idemep! | Home | Logoff". A navigation bar below the logo contains links: Home, Administration, Tools, Projects, Demonstration Projects, Links, **Forum**, R&D, and Publisher. Below this, there are two main sections: "FAQs" on the left and "Discussion Forum" on the right. The "FAQs" section has a question: "Q: How do I install AT Planner for Dams?". The "Discussion Forum" section has a table with columns for "Title", "Author", and "Date of last reply". Two blue boxes with black borders are overlaid on the page: "FAQs" with an arrow pointing to the question, and "Forum for collaboration" with an arrow pointing to the "Discussion Forum" table.

Links

The screenshot shows the UHS USACE Homeland Security website. At the top right, there is a navigation bar with 'Welcome u4idemep!', 'Home', and 'Logoff'. Below this is a main navigation menu with 'Home', 'Administration', 'Tools', 'Projects', 'Demonstration Projects', 'Links', 'Forum', 'R&D', and 'Publisher'. The 'Links' page is active, showing a search bar with 'Link_Description' selected and a dropdown menu for 'All'. Below the search bar is a list of links under the heading 'Link_Description'. The list includes various resources such as 'All Business', 'American Society of Engineers', 'Association of State Dam Safety Officials - Web Site', 'CECW-O', 'Civil Works Digital Project Notebook', 'Commercial and Civil Imagery', 'CorpsViewWeb', 'Critical Infrastructure Protection Priorities', 'DHS Department of Homeland Security DHS Home Page', 'Digital Homeland Library Readied', 'Digital Project Notebook - New Orleans District - US Army Corps of Engineers', 'Digital Project Notebook Index Page', 'Digital Projects Notebook Homepage', 'DPN - Digital Project Notebook - Walla Walla District', 'egov - Government to Government Portfolio', 'Electronic Security Center', 'ENGLink Current and Future', 'ENGLink INTERACTIVE', 'Environmental Database', 'Environmental Database Encyclopedia of Environmental Information', 'EROS Data Center, Sioux Falls, SD', 'ESRI-FEMA Hazard Awareness Site', 'February 2000 Engineer Update', 'Federal Emergency Management Agency', 'Federal Geographic Data Committee', 'FEMA Are You Ready Guide to Citizen Preparedness', 'FEMA Flood Hazard Mapping - FAQ's (Engineers-Surveyors)', 'FirstGov - The US Government's Official Web Portal', 'Free GIS Data - GIS Data Depot', and 'geodata.gov'. The list is numbered 1 through 4 at the bottom. A blue box labeled 'Documents' is overlaid on the top left, and another blue box labeled 'Reconfigurable list of links' is overlaid on the right side of the link list.

Documents

Search: Link_Description All
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

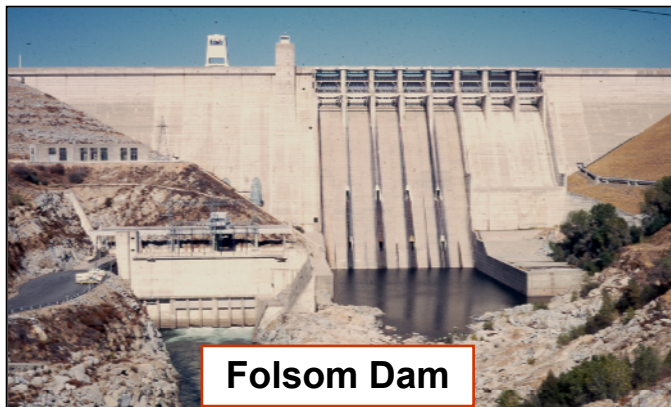
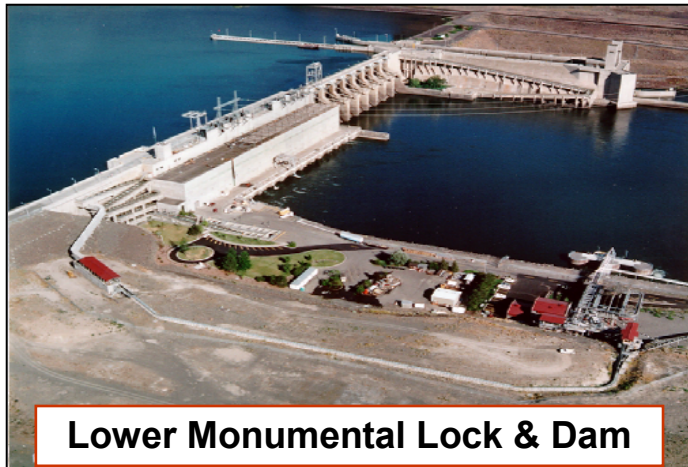
Link_Description
All Business
American Society of Engineers
Association of State Dam Safety Officials - Web Site
CECW-O
Civil Works Digital Project Notebook
Commercial and Civil Imagery
CorpsViewWeb
Critical Infrastructure Protection Priorities
DHS Department of Homeland Security DHS Home Page
Digital Homeland Library Readied
Digital Project Notebook - New Orleans District - US Army Corps of Engineers
Digital Project Notebook Index Page
Digital Projects Notebook Homepage
DPN - Digital Project Notebook - Walla Walla District
egov - Government to Government Portfolio
Electronic Security Center
ENGLink Current and Future
ENGLink INTERACTIVE
Environmental Database
Environmental Database Encyclopedia of Environmental Information
EROS Data Center, Sioux Falls, SD
ESRI-FEMA Hazard Awareness Site
February 2000 Engineer Update
Federal Emergency Management Agency
Federal Geographic Data Committee
FEMA Are You Ready Guide to Citizen Preparedness
FEMA Flood Hazard Mapping - FAQ's (Engineers-Surveyors)
FirstGov - The US Government's Official Web Portal
Free GIS Data - GIS Data Depot
geodata.gov

1 2 3 4

Reconfigurable list of links

Future R&D

R&D in support to Baseline Security Posture and USACE Homeland Security Strategic Plan (FY07-11).



- Integrated assessment procedures.
- Standardized risk/vulnerability procedures for evaluation of post-BSP security upgrades.



Summary

- Portal will provide:
 - Features
 - Secure easy access
 - Collaboration tools (forum), Lite GIS, Content management, Automated retrieval of data
 - Documents and Data
 - Data for district projects (RAM-D reports, design documents, ATP-D data files, etc.)
 - Sources of data (ENGLink, DPN, Corps sites, NSDI clearinghouse nodes, etc.)
 - Tools
 - RAM-D, ATP-D, R&D tools, other security related tools



Questions ?