



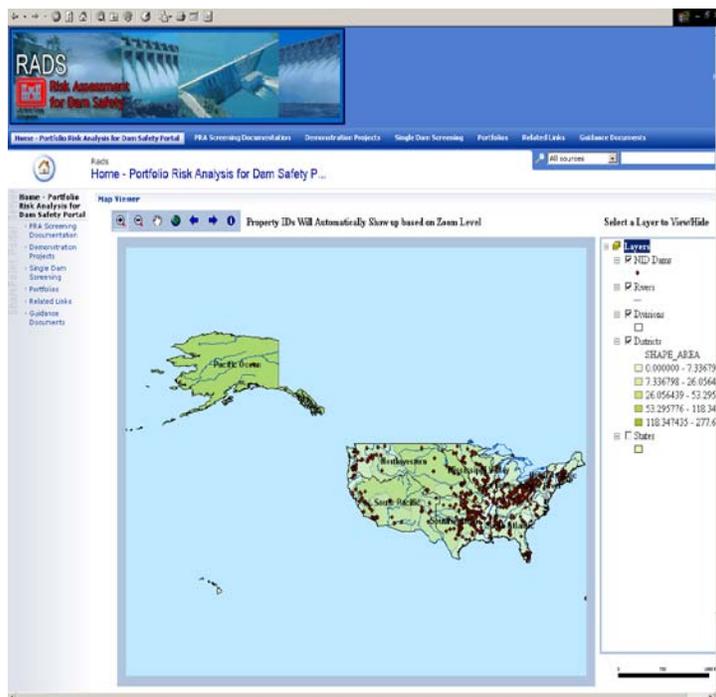
US Army Corps  
of Engineers®

## Water Resources Infrastructure R&D Program

# Technology Infusion

### Description

This effort provides for enhancing the RADS portal and risk engine and supporting their use in screening the USACE Portfolio of dams. The RADS portal and Risk Engine has been used successfully since FY05 to assist in the risk analysis, prioritization and risk categorization of the 30% of the USACE dams for investment of dam safety studies and remediation funds. During FY08 and FY09 it will continue to be used to rank and categorize the remaining 70% of the USACE dams. The RADS portal serves as the control center for the entire process. The risk engine spreadsheet is “checked out” of the database through the Portal. Once the risk analysis is completed by the National Team, the risk engine spreadsheet is “checked in” to the database through the Portal. The Portal preloads much of the data for a given dam from such sources as NID and DSPMT, while also providing links to various web information sites. Rollups of the risk analysis results can be extracted from the database to support the HQ decision making process for investments in fixes and studies aimed at reducing the USACE’s risk.



### Benefits

Provide the Corps with a consistent, risk based “screening level” methodology and software tool to quantify the performance, possible consequences, and risk reduction alternatives to prioritize and justify economic dam safety investments to reduce the overall public risk from the Corps’ inventory of dams

### Status

During FY05 – FY07, 30% of USACE dams have been screened using the RADS Portal and Risk engine. Results were used to frame the dams safety budget for investments in studies and fixes. Three National Teams were trained and supported from each FY. In FY08 and FY09, the screening is being accelerated with 35% of the dams being screened each FY. This required training 13 National Teams this FY. This screening level tool will be replaced in FY10 by a more rigorous tool currently under development.

### Distribution Source(s)

The RADS portal and documentation will only be used by HQ USACE, the Dam Safety Methodology Team, and the National Teams performing the individual dam risk analyses. It will be located on a Corps server with access controlled by the Risk and Reliability DX.

<b>Available Documentation</b>	At present, RADS documentation is limited to a user's manual that is in draft form. It is used in the training classes for the Teams.
<b>Available Training</b>	RADS training is only available through the classes for the National Teams.
<b>Available Support</b>	Application support can be obtained by contacting H. Wayne Jones at ERDC-ITL.
<b>Application</b>	Currently only the Dam Safety Methodology Team will be able to use the portal and risk engine.
<b>Point of Contact</b>	H. Wayne Jones, Information Technology Laboratory, US Army Engineer Research and Development Center, 3909 Halls Ferry Road, Vicksburg, MS 39180 E-mail: <a href="mailto:Harvey.W.Jones@erdc.usace.army.mil">Harvey.W.Jones@erdc.usace.army.mil</a>
<b>Partners</b>	H. Wayne Jones (ERDC-ITL), Risk and Reliability DX, LRD.