



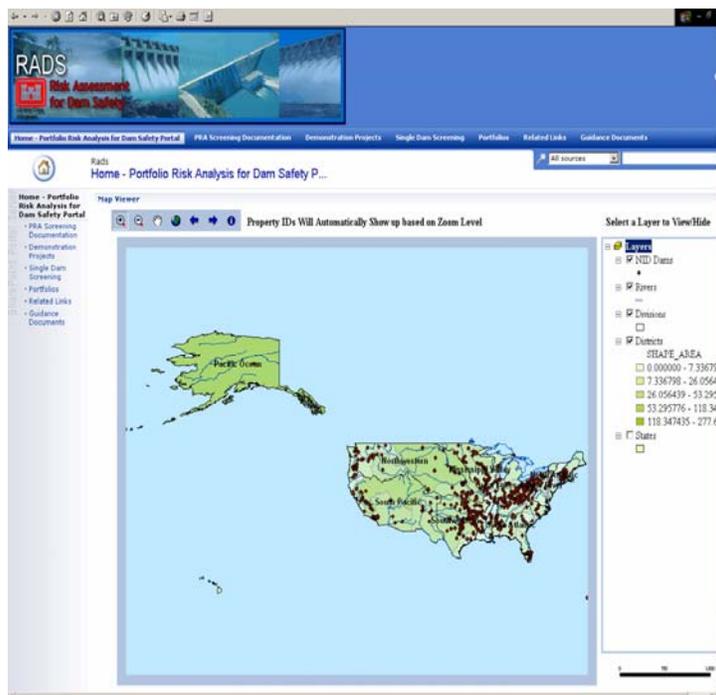
US Army Corps  
of Engineers®

## Flood&Coastal Storm Damage Reduction R&D Program

# Technology Infusion

### Description

This effort provides for enhancing the Risk Assessment for Dam Safety (RADS) portal and risk engine and supporting their use in screening the U.S. Army Corps of Engineers portfolio of dams. The RADS portal and risk engine have been used successfully since FY05 to assist in the risk analysis, prioritization and risk categorization of the 30 percent 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 percent 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 National Inventory of Dams (NID) and Dam Safety Program Management Tools (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 Headquarters, USACE decision-making process for investments in engineering studies and risk mitigation fixes aimed at reducing the Corps’ risk.



### Benefits

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

### Status

From FY05-FY07, 30 percent of USACE dams were screened using the RADS portal and risk engine. Results were used to frame the dam safety budget for investments in engineering studies and risk mitigation alternatives. Three national teams were trained and supported for each FY. In FY08 and FY09, the screening is being accelerated with 35 percent 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.

January 2008

<https://swwrp.usace.army.mil/>

<b>Distribution Source(s)</b>	The RADS portal and documentation will only be used by HQUSACE, 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 Directorate of Expertise.
<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 the point of contact below.
<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, U.S. Army Engineer Research and Development Center, 3909 Halls Ferry Road, Vicksburg, MS 39180 E-mail: <a href="mailto:Harvey.W.Jones@usace.army.mil">Harvey.W.Jones@usace.army.mil</a>
<b>Partners</b>	Risk and Reliability Directorate of Expertise, Great Lakes and Ohio River Division