



## Project Summary:

# COMPASS Software Upgrade

**Location:**

Oak Ridge Associated Universities  
(Oak Ridge, TN)

**Government Agency:**

U.S. Nuclear Regulatory Commission

**Project Timetable:**

December 2006 to  
March 2007

Oak Ridge Associated Universities provided assistance to the U.S. Nuclear Regulatory Commission by upgrading the Computerization of MARSSIM for Planning and Assessing Site Surveys (COMPASS) software from version 1.0 to version 1.1.

The COMPASS software was designed to facilitate the use of MARSSIM and guide users into making informed decisions in designing final status radiological surveys. COMPASS simplifies the data quality objectives (DQO) and data quality assessment (DQA) processes and assists in application of the appropriate statistical tests.

Since first created and developed by ORAU in 2001, the COMPASS software has been downloaded and used by individuals across the country and is recognized as a valuable tool in planning and evaluating MARSSIM-based radiological surveys.

Upgrades to version 1.1 included:

- Integration with Visual Sample Plan (VSP), developed by Pacific Northwest National Laboratory, to allow data sharing and use of COMPASS's DQO and DQA process outputs with VSP's visual presentation capabilities.
- Updated support for the Windows XP operating system.
- Added support for less than detectable data values.
- Generation of all reports in HTML format.
- Ability to delete old data.
- Ability to correct for ambient gamma radiation for building surfaces when using the Sign Test.
- Several bug fixes.

The COMPASS software is available for download at [www.ornl.gov/documents/ivhp/survey-projects/compass-v1\\_1-setup.exe](http://www.ornl.gov/documents/ivhp/survey-projects/compass-v1_1-setup.exe).

Partnerships for Innovation



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