

# NEWS from The Savannah River Site

---



Media contact: Bruce Cadotte  
(803) 725-8562

For immediate release

## NEW SOFTWARE REDUCES CLEANUP COSTS

Aiken, S.C., Jan. 30– Westinghouse Savannah River Company (WSRC) and Penn Anderson Equipment Company, Inc. of Oakmont, Pa., are partnering to introduce a new environmental cleanup software application. The software simulates the movement and fate of contaminants from waste sites through the unsaturated soil zone that lies above the water table.

WSRC developed and holds the copyright to the software.

The software, called VZCOMML<sup>®</sup>, is a contaminant transport model that calculates key fate and transport values. Those values help environmental professionals assess potential impacts to groundwater quality. The program automatically identifies the type of contaminant(s) that impact groundwater quality, the peak groundwater concentration, and the time of the peak groundwater concentration. It also calculates three types of cleanup goals for the soil.

VZCOMML compares the calculated groundwater concentrations to maximum contaminant levels (public drinking water standards) and identifies those that exceed the criteria. The program also compares the total amount of a contaminant in a waste site to the groundwater concentration that amount could theoretically produce; it flags the contaminant if it fails the test.

Greg Rucker, Westinghouse environmental engineer, said, “This model is faster, simpler and less expensive to use than other models. It requires fewer data inputs and can model up to 187 contaminants and up to four soil layers simultaneously in one run. It can be used as a first step in contaminant fate and transport modeling, saving more expensive and time-consuming models for those contaminants that this program identifies.”

(more)

## New Software Reduces Cleanup Costs...page 2

VZCOMML has been approved by regulators and used at more than 20 cleanup sites at the Department of Energy's Savannah River Site. The program is designed to be consistent with U.S. Environmental Protection Agency guidelines.

Under a license agreement, Penn Anderson will market the commercial product to the environmental services industry.

"VZCOMML is a good fit with the suite of products and services Penn Anderson is assembling as part of our strategy to become a value-added player in the global environmental remediation business sector," said Penn Anderson's president, Carl Michael.

Penn Anderson was incorporated in 1969 as a small business firm that designs and manufactures equipment that tests quality and performance of automotive and aircraft filters. Penn Anderson customers include filter manufacturers, automotive manufacturers, and independent testing labs in the United States, China, Saudi Arabia, New Zealand, Canada, Mexico, Egypt, Japan, South Africa, Colombia, and Brazil. Recently Penn Anderson formed a new environmental division, *SDM Environmental*, at 310-489-7694, that will provide services and products to the environmental industry.

WSRC manages the Department of Energy's Savannah River Site in Aiken, S.C. The company is noted for its expertise in nonproliferation, environmental restoration, hydrogen separation and storage, remote systems, sensors, and waste treatment. For information on licensing WSRC technologies, contact Brenda Boggs at (800) 228-3843.

WSRC-01-06