

## **VISUAL SURVEY DATA SYSTEM**

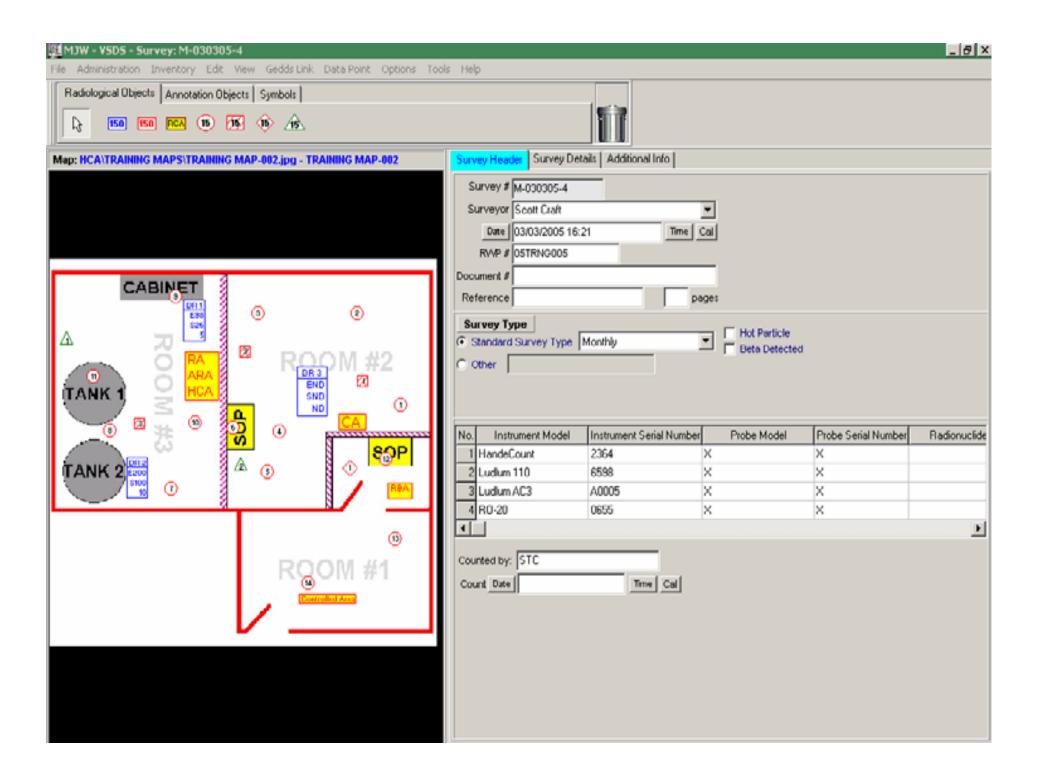
Russ Morgan Westinghouse Savannah River Company SRS ALARA Seminar, May 2-4, 2005

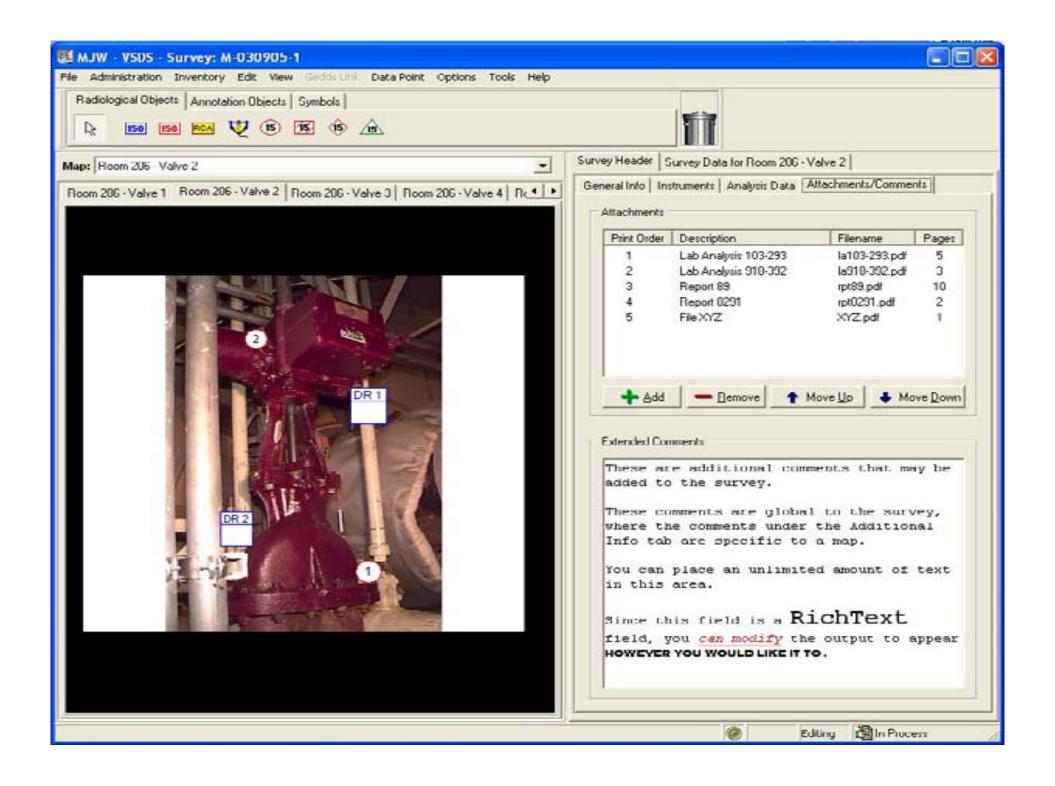


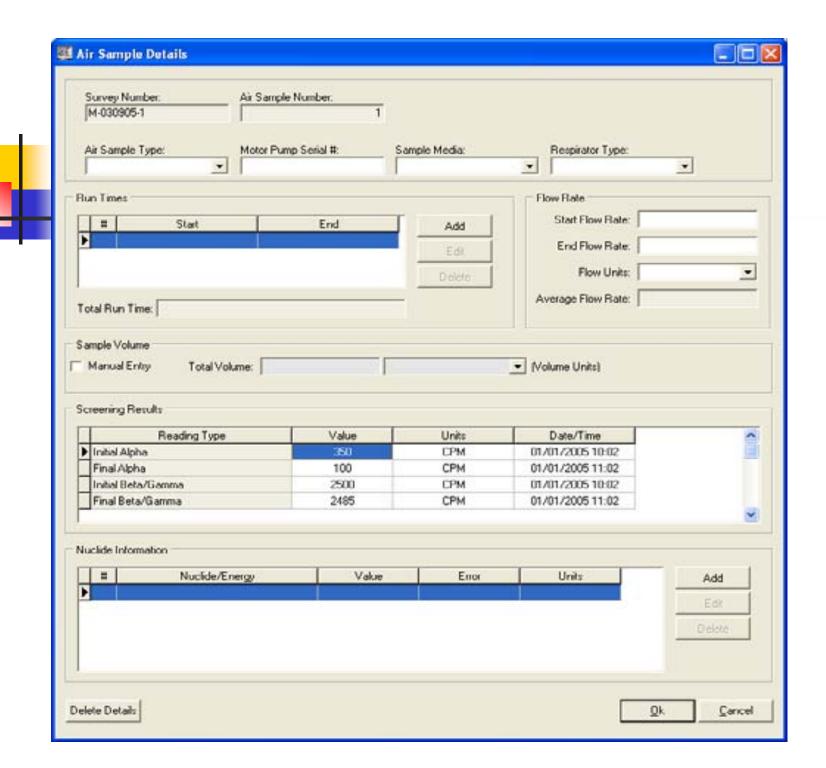
## VSDS Core/Pilot Teams

- Tim Kerrigan
- Mike Matheny
- Bill Reed
- Tina Shake

- Mike Broome
- Scott Craft









### VSDS – What It Is

- COTS Software to document radiological surveys
- Designed by HPs
- Originally written for nuclear power industry
- Runs on multiple hardware & system types
- Newer versions have features for the DOE world
- Utilizes digital images
- Data captured in a relational database
- Electronic approvals



## VSDS - Strengths

- Allows digital images of floor plans and pictures of equipment and spaces
- Templates allow survey repeatability
- Built in trending of routine surveys
- Electronic approvals
- Retrieval of past surveys
- Data accessible for reports/studies



### **VSDS** - Drawbacks

- Significant culture change
  - Some COTS features not changeable
  - New format
  - New symbols
  - Not all inspectors PC literate
- IT support costs
- Additional computers needed
- Already had a nice FileMaker program



# Why We Chose VSDS

- Survey point repeatability and trending
- Automatic, legible, paperless records
- Scales for site-wide use
- Future enhancements data logging and remote operation
- Other DOE Sites already using VSDS
- MJW willing to make selected changes
- Avoids custom software programming and maintenance with limited IT resources



# Changes We Requested

- Multiple maps (images)
- Multiple surveyors
- Expanded choices of measurement types and radionuclides
- Tritium symbols
- Initial/Final Probe
- Air sampler Serial No.
- Manual instrument entry

- Multiple instruments per inspector
- Larger main comment field and additional fields
- Survey title field
- Attachments in pdf
- Automatic pdf to external directory
- More control via the configuration file



# Implementation Strategy

- Small core team (5)
- RadCon, HP, IT(2), Management
- Every major area has a lead person
- Separate procedure for electronic surveys
- Training/User Guide, Communication Materials & Startup Checklist

- Pilot in two facilities
- Rollout over 6 months
- Publicity to keep up interest
- Track training and rollouts to maintain consistency
- RadCon management progress reports



## IT Implementation

- Areas, bldgs. and structures are grouped into 23 "Facilities"
- Six VSDS databases on one server
- Installation over the site network
- Security by Windows Log-On password
- Long-term, part time IT support



## Pilots - The Leads

- Learn the VSDS product
- Develop pilot startup schedule
- Develop training packages (→Training)
- Develop catalog of images/maps (→Protocol)
- Train key personnel
- Oversee/finish remaining training
- Run the pilot
- Be the "Go-To" Person



- Approved surveys are locked
- Multiple inspectors check box
- Automatic pdf to external directory
- Automatic routing for security review (Lotus Notes)
- Automatic routing to site records (Lotus Notes)

# ALARA

- Repeatable routine surveys templates
- Easy, meaningful trending
- Prepared drawings/pictures usually make locating data more accurate
- Pictures clarify complicated situations
- Legibility



#### ALARA Cont'd

- Fewer mistakes with less review
- Ready access to past surveys
  - Faster research by work planners, RWP writers, ALARA Coordinators and engineers
  - Faster research for incident investigation
- Data available for performance indicators and technical studies