

**PGDP Citizens Advisory Board  
Community Concerns Subcommittee  
July 24, 2001 - 6 p.m. – Paducah Community College**

- Subcommittee Members:** Craig Rhodes  
Mark Donham  
Ronnie Lamb  
Linda Long
- DOE Representative:** Don Seaborg
- State Representative:** Dr. John Volpe, Kentucky Radiation Control Branch (via phone)
- Contractor Support Staff:** Greg Cook and Craig Jones, BJC;  
Tracey Brindley, CDM; Jill Holder, DiG
- Public:** About 12 members of the public were present.

This purpose of this meeting was to address the progress toward completion of new maps showing contamination in and around the Paducah Gaseous Diffusion Plant.

**Opening remarks:**

Seaborg said that DOE offered to provide an update on the maps two months ago. Draft maps were generated in late 1999 in response to DOE's Phase I EH Team investigation. Data points were taken and placed on a map, including data that had not been reviewed through the quality control process. The observation was made that this was not a good way to map the data. Draft maps were provided to the EH Team. The maps became public in October 2000. Since the maps were first prepared, every data point is being reviewed in conjunction with the Cabinet for Health Services in Frankfort. There are more than 60,000 data points being examined and some have not passed the quality control process, causing some changes in the maps. Seaborg said the project has been delayed by the coordinate errors and by transposed data in the original tables. Also, the schedule is impacted by other work the Cabinet for Health Resources performs all across the state.

Volpe said he and his staff have had to recheck all the data. Brindley explained CDM, working with Volpe of the Radiation Control Branch, will evaluate and remap the data. Three kinds of maps were shown as samples: 1. Data without any Quality Assurance/Quality Control (QA/QC). 2. Data with QA/QC. 3. Data with QA/QC above a certain risk screening level. Brindley explained the data was collected on DOE's Oak Ridge Environmental Information System (OREIS) database. This database includes all environmental sampling results, including detects and non-detects.

**Discussion, questions and comments followed. A summary of some of the topics follows:**

- **Have the monitoring sites changed or are there any contamination sites shown on the old maps that do not exist?** Jones said there were a few coordinate errors.
- **More information about the sampling program was requested.** Brindley said some areas are sampled once, while others are sampled on a regular basis. She said they try to put data on the map highlighting areas outside the fence. With Volpe's help, they screen out data that does not pass QA/QC standards. Volpe said they look for different radionuclides. There is a package for data sets and there has to be certainty in measurement, he said. Then, you have to look at records to see if there is enough critical information to make calculations. Volpe said much of the old data is not useable because the uncertainty is above 50 percent. Jones said new methods are better. Volpe mentioned that old methods are being used for TC-99. There are concerns about the old methods, but they can use some of the data if it meets standards.
- **Donham asked a question about the state's position that there was unreliability in the data from the Phase I and II site investigations. He said the Site Management Plan was based on Phase I and II and asked about role of the Radiation Control Branch. He added that there was a lot of money spent on Phase I and II and asked for copies of letters stating the state's position.** Volpe did not think there were letters. Brindley said that QA/QC information was not in the electronic database the state received, but was available in hard copy form.
- Seaborg said DOE has decided to validate the value of the maps. He has asked for a map showing one element, Neptunium, to begin with and the process will be repeated for each isotope.
- Jones said the Department of Justice has sampled areas as a part of their investigation and is letting DOE use this information. He said some of the data will be available in the 2000 Annual Site Environmental Report, which should be available this fall.
- **Donham questioned the validity of the data, including whether it had been properly documented.** Jones said much of the early data did not include uncertainty because they did not request it from the lab. Volpe said he had questions about that data all along. Donham asked if they have gone back to the labs. Jones said some of the labs do not exist any longer. Seaborg asked if they erred on the conservative side. Volpe said it was extremely conservative. He added that he had not seen the data packages because reviewing those is a full-time job.
- Brindley suggested that the packages may show why some points were removed from the map.
- **Ruby English, a member of the public, asked whether there could be a meeting about the maps with the Active Committee for Truth (ACT).** Volpe said he would bring state-prepared data packages and share information with the group.