

STATISTICAL ANALYSIS METHOD CERTIFICATION
40 CFR §257.93(f)
PLANT VICTOR J. DANIEL
GYPSUM STORAGE AREA
MISSISSIPPI POWER COMPANY

The Environmental Protection Agency's "Disposal of Coal Combustion Residuals from Electric Utilities" Final Rule (40 CFR Part 257 and Part 261), §257.93, requires the owner or operator of an existing CCR Unit to identify a statistical method to be used in evaluating groundwater monitoring data for each specified constituent. The owner or operator must obtain a certification from a qualified professional engineer stating that the selected statistical method is appropriate for evaluating the groundwater monitoring data for the CCR management area meeting the requirements of 40 CFR §257.93.

Statistical Methodology

The selected statistical method for Plant Victor J. Daniel Gypsum Storage Area was developed in accordance with 40 CFR §257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (Unified Guidance).

For the detection monitoring program, the statistical test used to evaluate the groundwater monitoring data will be intrawell prediction limit (PL) method combined with a 1-of-2 resample plan, respectively. The intrawell PLs utilize historical data from within a given well to establish a statistical limit for comparison of compliance data at the same well. An "initial exceedance" occurs when any downgradient well data exceed the PL.


If data from a sampling event initially exceed the PL, the resampling strategy will be used to verify the result. In 1-of-2 resampling, one independent resample will be collected and evaluated within 90 days to determine whether the initial exceedance is verified. When the resample result does not verify the initial result, the initial exceedance is considered an erroneous result and the resample values will replace the initial result. When the resample confirms the initial finding, a statistically significant increase (SSI) is determined. An SSI is determined only if the resample verifies the initial exceedance (i.e. the resample also exceeds the PL).

In the event a confirmed SSI over background is identified, assessment monitoring will be initiated within 90 days unless a demonstration is made within that same timeframe that the SSI resulted from a source other than the CCR Unit.

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CERTIFICATION

I, Joshua A. Lippert, certify that this report was prepared under my supervision and that the information contained herein is true and accurate to the best of my knowledge. Further, based on my experience and knowledge of the site, and pursuant to 40 CFR 257.93, the selected statistical methods are appropriate for evaluating groundwater monitoring data collected at the site.



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