



Missouri Department of Natural Resources  
Water Protection Program

VARIANCE FROM RADIONUCLIDE REQUIREMENTS

Public Water Supply District #9 of Boone County

**DISPOSITION OF VARIANCE REQUEST**

After careful review and consideration, DNR hereby grants a variance as of September 20, 2006, from the gross alpha particle activity and combined radium-226 and radium-228 MCLs as authorized in Section 640.120.4, RSMo, of the Missouri Safe Drinking Water Law and 10 CSR 60-6.010 through 10 CSR 60-6.040 of the Missouri Safe Drinking Water Regulations. This approval is contingent upon the water district's compliance with interim control measures, schedule of compliance, and other conditions specified under the Conditions portion of this document. The establishment and implement of a variance does not relieve the public water system of compliance with other provisions of the Missouri Safe Drinking Water Regulations.

**CONDITIONS**

**Interim Control Measures.** 10 CSR 60-6.030(1) of the Missouri Safe Drinking Water Regulations requires the public water system to implement such control measures as DNR may require for each contaminant covered by the variance. The interim control measures are in effect during the period of the variance and specify steps the public water system shall take to minimize the health threat to customers. Interim control measures for this variance are as follows:

1. notify all new customers of the variance at the time service is initiated;
2. incorporate information about the variance into the water district's annual consumer Confidence Report (CCR), in accordance with the content and distribution requirements described in 10 CSR 60-8.010 and 10 CSR 60-9.303 of the Missouri Safe Drinking Water Regulations;
3. make information on compliance efforts and all test results available to the public at a readily accessible location, such as a public library or water district office building, as well as via the water district's website (<http://www.pwsd9.com>) and annual newsletter to all customers;
4. provide progress reports on a quarterly basis to DNR, with the first report due within 90 days of approval of the variance; the progress reports shall address, but not be limited to, actions taken to comply with the interim control measures and schedule of compliance specified in the variance;
5. in the event of a significant increase in radionuclides, the water district shall take the following steps:
  - a. immediately notify DNR;

- b. immediately notify customers of test results and precautionary measures customers should take (if any) through local media announcements and by whatever other means the water district finds effective;
  - c. continue notification no less frequently than once every three months until the contaminant levels no longer exceed MCLs; and
  - d. immediately implement measures to reduce the contaminant of concern to acceptable levels.
6. conduct routine monitoring as required by regulation to evaluate compliance with all treatment technique and MCL requirements;
  7. perform special monitoring as required by DNR; and
  8. adjust pumping operations and blending of water from other wells to the extent possible to minimize radionuclide levels in the drinking water.

**Schedule of Compliance.** 10CSR 60-6.030(1) requires DNR to provide a schedule of compliance for the public water system for each MCL or treatment technique requirement addressed by the variance. The compliance schedule shall contain such conditions as DNR may prescribe and shall specify dates by which steps towards compliance are to be taken. The public water system shall meet the following schedule of compliance during the effective period of this variance, although the department strongly encourages the public water system to complete these corrective actions as expeditiously as possible:

- Completed**
- Conduct a treatment study and submit an engineering report to the Missouri Department of Natural Resources for review.
  - Hold a public hearing to solicit public comments on the proposed variance (hearing was held on July 27, 2006).
- Feb. 28, 2007**
- Complete detailed engineering design for treatment facilities and submit plans and specification to the Missouri Department of Natural Resources for Review.
- May 31, 2007**
- Respond to review comments from the Missouri Department of Natural Resources and secure DNR approval of the proposed water treatment facilities.
- Nov. 30, 2007**
- Solicit and secure bids, and purchase construction materials for the proposed water treatment facilities.
- Sept. 30, 2008**
- Complete construction of the water treatment facilities.
- Dec. 31, 2008**
- Test, start up, and optimize operation of the new treatment facilities.

**Termination of Variance.** The variance shall end on December 31, 2008, or when the water district returns to compliance with the applicable regulation, whichever occurs first. DNR reserves the right to terminate the variance and require immediate compliance at any time if the water district fails to comply with the terms of the variance.