

ILLINOIS POLLUTION CONTROL BOARD
May 19, 1994

VILLAGE OF MAPLETON,	)	
	)	
Petitioner,	)	
	)	
v.	)	PCB 94-99
	)	(Variance)
ILLINOIS ENVIRONMENTAL	)	
PROTECTION AGENCY,	)	
	)	
Respondent.	)	

OPINION AND ORDER OF THE BOARD (by E. Dunham):

This matter is before the Board on the March 28, 1994, filing by petitioner, Village of Mapleton (Village) of a petition for variance. The Village seeks relief from 35 Ill. Adm. Code 602.105(a), "Standards for Issuance", and 602.106(a), "Restricted Status", but only to the extent those rules involve 35 Ill. Adm. Code 611.330(a) (radium-226 and radium-228) and 611.330(b) (gross alpha particle activity). The Village requests a variance for five years or until analysis pursuant to 35 Ill. Adm. Code 611.371 shows compliance with the standard regulating the contaminant, whichever comes first.

On April 25, 1994, the Illinois Environmental Protection Agency (Agency) filed its variance recommendation. The Agency recommends that the variance be granted, subject to certain conditions. The Village waived hearing and none was held.

For the following reasons, the Board finds that the Village has presented adequate proof that immediate compliance with the Board's regulations for "Standards for Issuance" and "Restricted Status" would result in the imposition of an arbitrary or unreasonable hardship. Accordingly, the variance is granted, subject to conditions set forth in the attached order.

BACKGROUND

The Village is located in Peoria County, Illinois. (Pet. at 1.) The Village provides potable water supply and distribution for a population of eighty-one residential and nine commercial utility customers. (Pet. at 4.) Petitioner is not part of a regional public water supply. (Pet. at 5.) The Village owns and operates the distribution systems in question. (Pet. at 5.) This is a deep well water supply system consisting of one deep well, pumps and distribution facilities. (Pet. at 5.)

If the requested variance is granted, petitioner currently foresees extending its water mains to serve M.G. Industries and Lonza Inc. to meet existing demands by those industries. (Pet. at

5.) Each industry would be have a separate hook up to the proposed water main. (Pet. at 5.)

The Village was advised by the Agency that its water supply exceeded the permissible levels in a letter dated January 4, 1994. (Pet. at 6.) The Agency letter indicates a maximum contaminant level (MCL) of 19.9 pCi/l for gross alpha particle activity was detected in the samples, exceeding the 15 pCi/l standard. (Pet. at 6.) The samples also showed a level of 6.0 pCi/l for radium 226 and 2.7 pCi/l for radium 228, exceeding the combined 5 pCi/l standard. (Pet. at 6.) On November 10, 1987, the Village submitted a letter of commitment to the Agency setting forth a plan to achieve compliance with the standard. (Pet. at 7.) The letter of commitment was amended by addendum on December 8, 1987. (Pet. at 6.) Compliance has not been achieved to date because petitioner is awaiting information regarding suggested new standards from the U.S. EPA. (Pet. at 6.)

REGULATORY FRAMEWORK

The instant variance request concerns two features of the Board's public water supply regulations: "Standards for Issuance" and "Restricted Status". These features are found at 35 Ill. Adm. Code 602.105 and 602.106, which in pertinent part read:

Section 602.105 Standards for Issuance

- a) The Agency shall not grant any construction or operating permit required by this Part unless the applicant submits adequate proof that the public water supply will be constructed, modified or operated so as not to cause a violation of the Environmental Protection Act (Ill. Rev. Stat. 1989, ch. 111 ½, pars. 1001 et seq.) (Act), or of this Chapter.

Section 602.106 Restricted Status

- b) The Agency shall publish and make available to the public, at intervals of not more than six months, a comprehensive and up-to-date list of supplies subject to restrictive status and the reasons why.

The principal effect of these regulations is to provide that public water supply systems are prohibited from extending water service, by virtue of not being able to obtain the requisite permits, unless and until their water meets all of the standards for finished water supplies. The Village requests that it be allowed to extend the water service while they pursue compliance with the combined radium standard and the gross alpha particle standard, as opposed to extending service only after attaining compliance.

In determining whether any variance is to be granted, the Act requires the Board to determine whether a petitioner has presented adequate proof that immediate compliance with the Board regulations at issue would impose an arbitrary or unreasonable hardship. (415 ILCS 5/35(a) (1992).) Furthermore, the burden is upon the petitioner to show that its claimed hardship outweighs the public interest in attaining compliance with regulations designed to protect the public (Willowbrook Motel v. Pollution Control Board (1st Dist. 1977), 135 Ill. App. 3d 343, 481 N.E.2d 1032). Only with such a showing can the claimed hardship rise to the level of arbitrary or unreasonable hardship.

A further feature of a variance is that it is, by its nature, a temporary reprieve from compliance with the Board's regulations (Monsanto Co. v. IPCB (1977), 67 Ill.2d 276, 367 N.E.2d 684), and compliance is to be sought regardless of the hardship which the task of eventual compliance presents an individual polluter (Id.). Accordingly, except in certain special circumstances, a variance petitioner is required, as a condition to grant of variance, to commit to a plan which is reasonably calculated to achieve compliance within the term of the variance.

A grant of variance from "Standards for Issuance" and "Restricted Status" does not absolve a petitioner from compliance with the drinking water standards at issue, nor does it insulate a petitioner from possible enforcement action brought for violation of those standards. The underlying standards remain applicable to the petitioner regardless of whether variance is granted or denied.

Standards for combined radium and gross alpha particle activity in drinking water were first adopted as National Interim Primary Drinking Water Regulations (NIPDWRs) by the U.S. EPA in 1976. The standards adopted were 5 pCi/l for the sum of the two isotopes of radium, radium-226 and radium-228 ("combined radium"), and 15 pCi/l for gross alpha ("particle activity"). Shortly thereafter Illinois adopted the same limits. Although characterized as "interim" limits, these standards nevertheless are the maximum contaminant levels under both federal and Illinois law, and will remain so unless modified by the U.S. EPA.¹

Since their original promulgation, the current radium and gross alpha particle activity standards have been under review at

¹ In anticipation of U.S. EPA revision of the radium standard, the legislature amended the Illinois Environmental Protection Act at Section 17.6 in 1988 to provide that any new federal radium standard immediately supersedes the current Illinois standard.

the federal level. The U.S. EPA first proposed revision of the standards in October 1983 in an Advance Notice of Proposed Rulemaking (48 Fed. Reg. 45502). It later republished this advance notice in September 1986 (51 Fed. Reg. 34836). On June 19, 1991, U.S. EPA announced a proposal to modify both standards.² U.S. EPA proposes to replace the 5 pCi/l combined radium standard by separate standards of 20 pCi/l each for radium-226 and radium-228. The gross alpha particle activity standard is proposed to be replaced by an adjusted gross alpha particle activity standard; the latter would still have a 15 pCi/l value, but would no longer include alpha particle activity associated with radium or uranium decay. Under the U.S. EPA's calendar, these standards are scheduled to be published by April 30, 1995.

COMPLIANCE PLAN

The Village does not have any existing controls for the contaminants. (Pet. at 7.) Appropriate controls will be devised and implemented as soon as the new standards are published by the U.S. EPA. (Pet. at 7.) The Village has committed to achieve compliance once the U.S. EPA establishes its amended standards for radium-226 and radium-228. (Ag. Rec. at 5.) The petitioner has committed to achieving compliance by September 30, 1999 or within 2 years of the date the U.S. EPA adopts its amendments for the radionuclides. (Ag. Rec. at 5.) The Village retains a registered professional engineer to assist in meeting the obligations of the letter of commitment. (Pet. at 7.)

HARDSHIP

The Village contends that compliance with the standard does not significantly insure the public or environment for the limited time period of the variance. (Pet. at 9.) The Village contends that the expenditure of significant sums of money by petitioner to comply creates an arbitrary or unreasonable hardship. (Pet. at 10.) The Village notes that the promulgation of a new radium standard by the U.S. EPA may significantly alter the Village's compliance status and may even obviate the need for a continued variance from Restricted Status. (Pet. at 11.) According to the Village, "the substantial expenditure of public funds for treatment facilities which may become obsolescent in the near future is not in the public interest and does not grant a corresponding benefit to the public." (Pet. at 11.) The Village further argues that denial of the requested variance results in an arbitrary and unreasonable hardship because it halts construction and hurts prospective and existing local industry and the Village's tax base. (Pet. at 11.)

² Publication occurred at 56 Fed. Reg. 33050, July 18, 1991.

The Agency agrees that denial of the variance would impose an arbitrary or unreasonable hardship on the Village. (Ag. Rec. at 7.)

ENVIRONMENTAL IMPACT

Although the Village has not undertaken a formal assessment of the environmental effects of the requested variance, it contends that there will be minimal or no adverse impact caused by the granting of the variance. (Pet. at 8.) Both the Agency and the Village cite the testimony presented by Richard E. Toohey, Ph.D., of Argonne National Laboratory, at the July 30 and August 2, 1985 hearings for the Proposed Amendments to Public Water Supply Regulations (R85-14), 35 Ill. Adm. Code 602.105 and 602.106 and the updated testimony presented by Dr. Toohey in the Board's hearing on a variance requested by the City of Braidwood in PCB 89-212, in support of the assertion that the variance will not result in any adverse environmental impact. (Pet. at 8; Ag. Rec. at 7.)

While the Agency believes that radiation at any level creates some risk, the risk associated with the Village's water supply is very low. (Ag. Rec. at 6.) The Agency states that "an increase in the allowable concentration for the contaminants in question should cause no significant health risk for the limited population served by new water main extensions for the time period of this recommended variance." (Ag. Rec. at 7.) In summary, the Agency states as follows:

The Agency believes that the hardship resulting from denial of the recommended variance from the effect of being on restricted status would outweigh the injury of the public from grant of the extension. In light of the likelihood of no significant injury to the public from continuation of the present level of the contaminants in question, the Agency concludes that denial of a variance would impose an arbitrary or unreasonable hardship upon petitioner.

The Agency observes that the grant of the variance from restricted status should affect only those users who consume water drawn from any newly extended water lines. This variance should not affect the status of the rest of petitioner's population drawing water from existing water lines, except insofar as the variance by its conditions may hasten compliance. In so saying, the Agency emphasizes that it continues to place a high priority on compliance with the standards.
(Ag. Rec. at 10.)

CONSISTENCY WITH FEDERAL LAW

The Agency states that the requested variance may be granted consistent with the Safe Drinking Water Act (SDWA), PL 93-523, as amended by PL 96-502, 42 U.S.C. 300(f) and corresponding regulations (40 CFR Part 141) because the variance does not grant relief from compliance with the federal primary drinking regulations. (Ag. Rec. at 9.) The Agency states that granting a variance from the effects of restricted status affects State and not federal law and regulations; a variance from the effect of restricted status would allow water main extensions, under the Act and Board regulations. (Ag. Rec. at 9.) The Agency further states that the recommended variance is not a variance from U.S. EPA's national primary drinking water regulations and does suspend the effect of the SDWA. (Ag. Rec. at 9.) The Agency asserts that a federal variance is not at issue, and there should be no risk to the State of Illinois of loss of primacy. (Ag. Rec. at 9.) The Agency believes that petitioner will remain subject to the possibility of enforcement for violations of the MCL for the contaminants in question under state and federal law. (Ag. Rec. at 9.) The Agency concludes that because continuing progress is being made towards compliance while awaiting final promulgation of the standard, it is unlikely that the U.S. EPA will object to the issuance of the recommended variance. (Ag. Rec. at 9.)

CONCLUSION

Based upon the record, the Board finds that immediate compliance with the "Standards for Issuance" and "Restricted Status" regulations would impose an arbitrary or unreasonable hardship on the Village of Mapleton. The Board also agrees with the parties that granting this variance does not pose a significant health risk to those persons served who will be affected by the variance, assuming that compliance is timely forthcoming.

The Board notes that timely compliance by the Village may be affected by pending U.S. EPA action to promulgate new standards for radionuclides in drinking water. U.S. EPA has recommended a standard of 20 pCi/l for both radium-226 and radium-228. This proposed standard was published on July 18, 1991 (56 Fed. Reg. 33,050 (1991)), and the public hearings on the standard began on September 6, 1991. It is anticipated that the new standard as amended will be adopted within a year. New radionuclide standards from U.S. EPA could significantly alter the Village's need for a variance or alternatives for achieving compliance. In recognition of this situation, as recommended by the Agency, the variance will contain suitable time frames to account for the effects of any U.S. EPA alteration (or notice of refusal to alter) of the radium standards.

Today's action is solely a grant of variance from standards of issuance and restricted status. The Village is not granted a

variance from compliance with the combined radium standard, nor does today's action insulate the Village in any manner against enforcement for violation of these standards.

This opinion constitutes the Board's findings of fact and conclusions of law in this matter.

ORDER

The Village of Mapleton is hereby granted a variance from 35 Ill. Adm. Code 602.105(a), "Standards for Issuance", and 602.106(b), "Restricted Status", as they relate to the standards for combined radium-226 and radium-228 in drinking water as set forth in 35 Ill. Adm. Code 611.330(a), and gross alpha particle activity as set forth in 35 Ill. Adm. Code 611.330(b) subject to the following conditions:

- (A) For purposes of this order, the date of U.S. Environmental Protection Agency (U.S. EPA) action shall consist of the earlier date of the following:
 - (1) Date of promulgation by the U.S. EPA of any regulation which amends the maximum concentration level for combined radium, either of the isotopes of radium, or the method by which compliance with a radium maximum contaminant level is demonstrated; or
 - (2) Date of publication of notice by the U.S. EPA that no amendments to the 5 pCi/l combined radium standard or the method for demonstrating compliance with the 5 pCi/l standard will be promulgated.
- (B) Variance shall terminate on the earliest of the following dates:
 - (1) Two years following the date of U.S. EPA action; or
 - (2) April 30, 1999; or
 - (3) When analysis pursuant to 35 Ill. Adm. Code 611.720, or any compliance with standards then in effect, shows compliance with standards for radium in drinking water then in effect.
- (C) In consultation with the Illinois Environmental Protection Agency (Agency), petitioner shall continue a sampling program to determine as accurately as possible the level of radioactivity in its wells and finished water. Until this variance expires, petitioner shall

collect quarterly samples of water from the distribution system at locations approved by the Agency. Petitioner shall composite the quarterly samples from each location separately and shall analyze them annually by a laboratory certified by the State of Illinois for radiological analysis so as to determine the concentration of radium-226, radium-228 and gross alpha particle activity. At the option of petitioner, the quarterly samples may be analyzed when collected. The results of the analyses shall be reported within 30 days of receipt of each analysis to:

Illinois Environmental Protection Agency
Compliance Assurance Section
Division of Public Water Supplies
2200 Churchill Road
Springfield, Illinois 62794-9276

- (D) Within three months of U.S. EPA action, petitioner shall apply to the Agency at the address below for all permits necessary for the construction, installation, changes or additions to petitioner's public water supply needed for achieving compliance with the MCL for combined radium or with any other standard for radium in drinking water then in effect:

Illinois Environmental Protection Agency
Public Water Supply System
Permit Section
2200 Churchill Road
Springfield, IL 62794-9276

- (E) Within six months of U.S. EPA action after each construction permit is issued by the Agency, petitioner shall advertise for bids, to be submitted within 60 days, from contractors to do the necessary work described in the construction permit. The petitioner shall accept appropriate bids within a reasonable time. Petitioner shall notify the Agency, Division of Public Water Supplies, within 30 days, of each of the following actions: 1) advertisements for bids, 2) names of the successful bidders, and 3) whether petitioner accepted the bids.
- (F) Construction allowed on said construction permits shall begin within a reasonable time of bids being accepted, but in any case, construction of all installations, changes or additions necessary to achieve compliance with the MCL in question shall be completed no later than two years following U.S. EPA action. One year will be necessary to prove compliance.

- (G) Pursuant to 35 Ill. Adm. Code 611.851(b) (formerly 35 Ill. Adm. Code 606.201), in its first set of water bills or within three months after the date of this order, whichever occurs first, and every three months thereafter, petitioner will send to each user of its public water supply a written notice to the effect that petitioner is not in compliance with the standard in question. The notice shall state the average content of the contaminants in question in samples taken since the last notice period during which samples were taken.
- (H) Pursuant to 35 Ill. Adm. Code 611.851(b) (formerly 35 Ill. Adm. Code 606.201), in the first set of water bills or within three months after the date of this order, whichever occurs first, and every three months thereafter, petitioner will send to each user of its public water supply a written notice to the effect that petitioner has been granted by the Pollution Control Board a variance from 35 Ill. Adm. Code 602.105(a) Standards of Issuance and 35 Ill. Adm. Code 602.106(a) Restricted Status, as they relate to the MCL standard in question.
- (I) Until full compliance is achieved, petitioner shall take all reasonable measures with its existing equipment to minimize the level of contaminants in its finished drinking water.
- (J) Petitioner shall provide written progress reports to the Agency at the address below every six months concerning steps taken to comply with the paragraphs C, D, E, F, G and H of this order. Progress reports shall quote each of said paragraphs and immediately below each paragraph state what steps have been taken to comply with each paragraph:

Illinois Environmental Protection Agency
 Division of Public Water Supply
 Field Operations Section
 2200 Churchill road
 Springfield, Illinois 62794-9276

- (K) Within forty-five days of the date of this order, petitioner shall execute and forward to:

Stephen C. Ewart
 Division of Legal Counsel
 Illinois Environmental Protection Agency
 2200 Churchill Road, P.O. Box 19276
 Springfield, Illinois 62794-9276

a Certificate of Acceptance and agreement to be bound to all terms and conditions of the granted variance. The 45-day period shall be held in abeyance during any period that this matter is appealed. Failure to execute and forward the certificate within 45-days renders this variance void and of no force and effect as a shield against enforcement of rules from which this variance is granted. The form of the certificate is as follows.

I (We), _____, hereby accept and agree to be bound by all terms and conditions of the order of the Pollution Control Board in PCB 94-99, May 19, 1994.

Petitioner

Authorized Agent

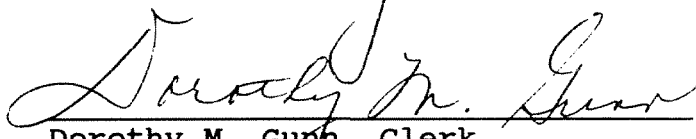
Title

Date

IT IS SO ORDERED.

Section 41 of the Environmental Protection Act, (415 ILCS 5/41 (1992)), provides for appeal of final orders of the Board within 35 days of the date of service of this order. The Rules of the Supreme Court of Illinois establish filing requirements. (See also 35 Ill. Adm. Code 101.246, Motion for Reconsideration.)

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above opinion and order was adopted on the 19th day of May, 1994, by a vote of 6-0.


Dorothy M. Gunn, Clerk
Illinois Pollution Control Board