

ILLINOIS POLLUTION CONTROL BOARD  
October 24, 1985

IN THE MATTER OF: )  
 )  
PETITION OF GIFFORD-HILL )  
AMERICAN LOCK JOINT INC. FOR ) R84-45  
SITE SPECIFIC RELIEF FROM )  
35 ILL. ADM. CODE 807.305 )

PROPOSED RULE. FIRST NOTICE.

PROPOSED OPINION AND ORDER OF THE BOARD (by J. Anderson):

This matter comes before the Board on the December 20, 1984 petition of Gifford-Hill American Lock Joint, Inc. (GHA) for site specific relief from the daily, intermediate, and final cover requirements of 35 Ill. Adm. Code 807.305 (a,b,c) for its disposal of concrete wastes at its South Beloit, Winnebago County, reinforced concrete pipe manufacturing facility. Hearing was held on April 23, 1985, at which GHA presented testimony and exhibits, as well as an amendment to its request. No members of the public have participated in or made comments concerning this proceeding. The Illinois Environmental Protection Act (Agency) filed comments in support of GHA's request on July 5 and August 13, 1985; GHA's final comments were filed August 20, 1985. In letters of June 13 and July 2, 1985, the Department of Energy and Natural Resources made its determination that an Economic Impact Study concerning this proposal was unnecessary on the basis that:

"The net economic impact of the regulation is favorable and the costs of compliance are small or are borne entirely by the proponent of the regulation."

Consequently, no economic hearings have been held.

GHA operates a plant involved in the manufacture of reinforced concrete pipe. This facility, located in Northern Winnebago County, Illinois, spans 93 acres. The facility employs approximately 150 people.

In the course of a day, GHA uses approximately 120 tons of sand, 90 tons of stone, and 45 tons of cement. These materials are mixed together with water to make concrete, which is then placed in steel molds and cured. After curing, the molds are removed leaving a concrete pipe which is then used for water and wastewater transmission.

Upon completion of a day's production, there remains a quantity of concrete to be disposed of. Daily amounts will vary from 2 to 4 tons. This is a result from spillage, breakage and waste. The refuse to be placed in the landfill is concrete

waste, cull pipe and an occasional steel rod embedded in the concrete. The material is non-putrescible and non-biodegradable.

The cover requirements of 35 Ill. Adm. Code 807.305 can be briefly summarized as follows: daily - 6 inches, intermediate - 12 inches, final - 2 feet. Pursuant to variances granted to GHA and its predecessor Interpace Corporation (see PCB 75-495, June 6, 1976; PCB 77-274, December 20, 1977; PCB 79-206, December 13, 1979; and PCB 83-125, December 29, 1983) cover has been placed on this material as follows: daily - none, "intermediate" - 1 foot every 6 months, final - 2 feet at the end of every variance period, or roughly 1-2 years. In this petition for site specific rule change (filed in response to a suggestion in the PCB 83-125 variance), GHA requests the following cover requirements: daily - none; "intermediate" - 6 inches per week; final - 2 feet on final sloping faces, 6 inches on flat surfaces used for industrial purposes. GHA proposes retention of other conditions of the variance including limitation of the disposal area to one acre, and of the disposal height to that of the adjacent improved terrain.

The concrete waste disposal area is a 25 acre track located to the north of the plant; since operations began on the site in 1952, 10 acres have been filled. The life of the remaining 15 acres of the disposal area is anticipated to be a minimum of 20 years (R.15, 39-40). GHA's nearest neighbor to the north is a quarry operation, to the south a manufacturing facility, to the east a closed landfill, to the west the City of South Beloit. The nearest residential dwellings are directly across the road from the plant itself, or roughly one half mile to the south of the landfill area.

During the past 10 years, disposal of the waste concrete without daily cover pursuant to variance has neither produced a noxious odor nor harbored rodents. Quarterly tests of water quality on wells on GHA's property have shown no change and the Winnebago Department of Public Health tests show the water is safe to drink (Group Exh. 5). The Agency has inspected this facility nine times between 1978-1983 and found no environmental problems resulting from lack of daily cover during any of the inspections (Group Exh. 11). The Agency has received no complaints regarding operation of the site.

GHA asserts that continued "waiver" of the daily cover requirements results in a cost savings on the order of \$1300-\$1600 per week (R.47 and Exh. 2). The further modification of the intermediate cover requirements would be estimated to save an additional \$44,400 per year and final cover requirements an estimated \$19,356 per year (Group Exh. 10).

Concerning final cover, GHA requests, in essence, that six inches of final cover comprised of "silty sand which provides good structural support in conjunction with the landfilled material" and which "minimizes vegetative cover" be permitted on

the reclaimed flat (top) of the landfill area in lieu of the normally mandated two feet of suitable cover (usually capable of supporting beneficial vegetative cover). GHA believes that this sand is preferable to conventional cover materials because it deters vegetative growth. This is desirable given GHA's continuing use of the finished flat top of the landfill area for inventory storage, heavy equipment (see photographs, Group Exh. 12) and, possibly, the future site of additional production buildings. GHA agrees that if and when such "industrial uses" cease, the site will be restored to more of a natural state, including two feet of cover capable of supporting vegetation. GHA also agrees to provide two feet of cover capable of supporting vegetation to provide erosion control on the final (east) slope of the landfill and any other "final sloping faces."

The Agency supports grant of the requested relief, noting that the compactible nature of the principal waste material--concrete rubble--limits the effects of lack of daily cover, and indeed, may be preferable to other cover materials. The only material which potentially poses even a de minimus threat of water pollution is the steel reinforcing bars which have the potential to create leachate problems. Although stating that this is an "unlikely prospect", the Agency urges inclusion of a provision in the rule requiring petitioner to limit inclusion of such wastes in the landfill. In this context, the Agency notes that the Industrial Materials Exchange Service, operated by the Illinois State Chamber of Commerce in cooperation with the Agency, might be able to find a market for some of the wastes landfilled.

It is the opinion of the Board that the site-specific relief requested by GHA may be granted with minimal risk to the environment; based upon the communications from DENR and the other evidence in the public hearing record, the Board finds that grant of the request will have no adverse economic impact on the people of the State of Illinois.

The Board is therefore adopting for first notice a rule substantially similar to that suggested by GHA and the Agency, as outlined in the attached Order. Language revisions have been necessary to convert the looser language used in the variances to comport with requirements of the Joint Committee on Administrative Rules. In this context, the Board notes that it has not included the Agency's suggestion that GHA be ordered to minimize disposal of metal-bearing waste "to the extent practicable" due to inability to frame precise guidelines or standards for enforcement for what is essentially a variance-type hortatory injunction.

Finally, the Board will not adopt GHA's suggestion that the rule provide that it need not provide an additional one and one-half feet of final cover to the flat reclaimed area in the event of sale of the site to another industrial user who also would prefer that the area continue without vegetative cover. Variance

and/or site-specific relief would be the more appropriate mechanism in that case, to allow for determination by the Board of the similarity of the uses to which the successor industry would put the property and the resulting environmental impact.

ORDER

The Board hereby directs the Clerk to cause first notice publication of the following regulatory proposal in the Illinois Register:

TITLE 35: ENVIRONMENTAL PROTECTION  
SUBTITLE G: WASTE DISPOSAL  
CHAPTER I: POLLUTION CONTROL BOARD  
SUBCHAPTER i: SOLID WASTE AND SPECIAL WASTE HAULING

PART 807  
SOLID WASTE

SUBPART G: SITE SPECIFIC RULES  
AND EXCEPTIONS NOT OF GENERAL  
APPLICABILITY

Section 807.700 Gifford-Hill American Lock Joint, Inc.  
Concrete Waste Disposal Site

- a) The cover requirements of 35 Ill. Adm. Code 807.305 (a,b,c) shall not apply to the on-site disposal of concrete waste resulting from the manufacturing operations of Gifford-Hill American Lock Joint, Inc. (GHA) at its South Beloit, Winnebago County, plant.
- b) Disposal activities shall meet the following requirements:
  - 1) GHA shall limit waste disposal to the types of waste disposed of pursuant to variance granted in PCB 83-125: concrete waste, cull pipe, and metal reinforcing rods embedded in concrete. GHA shall take all reasonable measures to minimize disposal of such metals as waste through use of recycling.
  - 2) GHA shall limit the exposed, active surface of its disposal site to a one acre area, and the height of the fill in the active area to that of adjacent improved terrain.
  - 3) Once a week, GHA shall cover the exposed, active surface of its disposal site with a compacted layer of at least 6 inches of earthen material.
  - 4) Within 60 days of cessation of disposal activities, in any one acre area, GHA shall provide any final, sloping faces of its disposal site with at least two feet of final cover consisting of compacted


earthen material capable of supporting vegetative cover.

- 5) Within 60 days of cessation of disposal activities, GHA shall provide any flat reclaimed area of its disposal site which is to be used for the storage of pipe inventory and equipment, or which is to be occupied by buildings, with at least six inches of final cover consisting of silty sand or similar material. However, within 60 days of cessation of such uses, GHA shall provide at least an additional 18 inches of final cover material as specified in subsection (b)(4) above.

IT IS SO ORDERED.

J. T. Meyer dissented.

I, Dorothy M. Gunn, Clerk of the Illinois Pollution Control Board, hereby certify that the above Proposed Opinion and Order was adopted on the 24th day of October, 1985, by a vote of 6-1.

  
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Dorothy M. Gunn, Clerk  
Illinois Pollution Control Board