

✓ 9-8-06

VARIANCE REQUEST

Iowa Department of Natural Resources

1. Date : 10-23-98 13. Decision: Approved
2. Review Engineer : Terry Kirschenman Date: 11/3/98
3. Date Received : 10-5-98
4. Facility Name : Rockwell City 14. Appeal:
5. County Number : 13 Date:
6. Program Area : CP
7. Facility Type : COS
8. Subject Area : 366
9. Rule Reference : 567-64.2(9)g
10. Design Std. Ref. : 17.3.4.3
11. Consulting Engr. : Veenstra and Kimm
12. Variance Rule : 567-64.2(9)c

15. Description of Variance Request

Covered sludge storage tank for the storage of anaerobically digested sludge. The design standard requires aeration and mixing of the stored sludge; however, no installed equipment is proposed.

16. Consulting Engineer's Justification

The Department has issued similar variances for similar projects: Creston & Indianola, Ankeny. Mixing can be provided by the sludge hauler at the time of load application.

16. Consulting Engineer's Justification (cont.)

No problem with odors and vector control

No environmental problems

lime stabilization will be done by the City if the anaerobic digester cannot be used to stabilize sludge prior to storage.

17. Department's Justification

The plan drawings indicate that the tank will be covered.

The site is isolated.

Though the proposed operations and proposed design, this facility will be substantially equivalent to what is required by the design standards.

18. Precedents Used

Creston, Indianola

19. Staff Reviewer

: 

Date: 10-23-98

20. Supervisor

: 

Date: 10/23/98

21. Authorized by

: 

Date: 10/31/98

MA

Variance File



TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
LARRY J. WILSON, DIRECTOR

November 3, 1998

The Honorable John F. Block
Mayor of Rockwell City
335 Main Street, PO Box 232
Rockwell City, Iowa 50579-0232

RE: Rockwell City Wastewater Treatment Plant
Rockwell City, Iowa
CS192120 01

Dear Mayor Block:

This correspondence is in response to the letters dated October 5, 1998, August 25, 1998, and June 9, 1998, from Veenstra and Kimm, Inc. Their letters request a variance from Iowa Wastewater Facilities Design Standard 17.3.4.3. This design standard requires installed mixing of all sludge storage tanks by aeration.

The Department is in agreement with Rockwell City's proposal to store anaerobically digested sludge in a covered sludge storage tank without aeration or installed mixing equipment. The proposal as described by Veenstra and Kimm, Inc. is substantially equivalent to the requirements of Iowa Wastewater Facilities Design Standard 17.3.4.3. The anaerobic sludge must be fully stabilized prior to storage. In the absence of anaerobic digestion, the sludge shall be stabilized by the City of Rockwell City in a batch operation prior to land disposal. The project site location also is isolated. However, some installed mixing is desirable to minimize sampling for compliance with the state sewage sludge disposal rules as records management and representative sampling of the land applied sewage sludge is required. To assure compliance with Chapter 567 IAC 67 and equivalence with the design standard, your variance request to construct a covered sludge storage tank without installed mixing equipment is approved on the condition that each load of sludge is sampled prior to land application or adequate mixing for the storage tank sludge is provided by the sludge hauler at the time of land application.

Should you have any questions, please contact Terry L. Kirschenman at 515-281-8885. My telephone number is 515-281-8869.

Sincerely,

Darrell McAllister, Chief
Water Quality Bureau

cc: Field Office 3
Veenstra and Kimm, Inc., West Des Moines
Diana Hansen, IDNR
Henry Manning, IDED