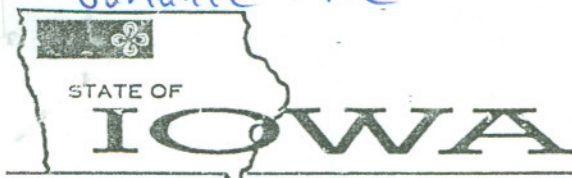


Variance File

17.4.1.2



THOMAS J. VILSACK
GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
PAUL W. JOHNSON, DIRECTOR

SALLY J. PEDERSON,
LT. GOVERNOR

February 12, 1999

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

RE: Primary Sludge Pumping Reliability
Rockwell City, Iowa
CS192120 01

Dear Mayor Block:

This letter is in response to the February 2, 1999, request from Veenstra and Kimm, Inc. for a variance from Iowa Wastewater Facilities Design Standard 17.4.1.2. Information also was provided in a previous letter dated December 7, 1998. Design Standard 17.4.1.2 requires duplicate sludge pumping units such that with any pump out of service, the remaining pumps will have capacity to handle the peak flow. The City of Rockwell City is proposing to install only one Penn Valley pump at this time because of the limited space in the Digester Building. A second portable pump of a small sizing will be provided as backup for pumping sludge directly from the primary clarifiers to the digester. The proposal is substantially equivalent to the design standard. However, the portable pump must be maintained on site. Also, if the Penn Valley pump is poorly maintained or the downtime exceeds two days, a second pump shall be installed even if an expansion of the Digester Building is required.

Should you have any questions, please contact Terry L. Kirschenman at 515-281-8885.

Sincerely,



Darrell McAllister, Chief
Water Quality Bureau

c: Veenstra and Kimm, Inc., West Des Moines
Field Office 3

✓ 9-8-04

VARIANCE REQUEST
Iowa Department of Natural Resources

1. Date: February 12, 1999
2. Review Engineer: Terry L. Kirschenman
3. Date Received: 2/2/99
4. Facility Name: City of Rockwell City
5. County Number: 13
6. Program Area: CP
7. Facility Type : C09
8. Subject Area : 315 Number of Pumps
9. Rule Reference: 567-64.2(9)a
10. Design Stds Ref: 17.4.1.2
11. Consulting Engr: Veenstra and Kimm, Inc.
12. Variance Rule: 567-64.2(9)c

13. Decision:

Date: 2/15/99

14. Appeal:

Date:

15. Description of Variance Request:

1. Design Standard 17.4.1.2 requires duplicate sludge pumping units such that with any pump out of service, the remaining pumps will have capacity to handle the peak flow.
2. The City is requested that only one primary clarifier sludge pump be installed. A second portable pump will be provided as backup.

16. Consulting Engineer's Justifications

1. The pump that is presently installed is a reliable pump (Penn Valley) with parts readily available out of Des Moines.
2. The City would provide a "small" trash pump capable of pumping directly from the primary clarifiers to the digester during periods of pump outage.
3. There is limited space in the Digester Building for a second pump.

17. Department's Justifications

1. There is room in the digester building to add a second sludge pump if determined necessary.
2. The City has operated this facility with only one installed sludge pump for some time.

18. Precedents Used

None

19. Staff Reviewer: 

Date: 2/12/99

20. Supervisor: 

Date: 2/15/99

21. Authorized by: 

Date: 2/15/99