



TERRY E. BRANSTAD, GOVERNOR

DEPARTMENT OF NATURAL RESOURCES

LARRY J. WILSON, DIRECTOR

Dick ✓

17.3.4.3.b

October 27, 1995

Mr. Michael Hays
City Manager
315 Stevens Street, P.O. Box 698
Iowa Falls, Iowa 50126

RE: Sludge Storage Tank
Iowa Falls, Iowa 6-42-60-0-01
CS192096 01

Dear Mr. Hays:

This letter is in response to the sludge storage item in the September 7, 1995, letter from Fox Engineering. Their letter requests that a proposed sludge storage tank with a volume of 228,000 gallons be mixed with a 20 hp surface mixer, 0.66 hp/1,000 ft³. Fox Engineering cites Grinnell and Marshalltown as successful applications of this technology.

Iowa's design standard 17.3.4.3.b requires a minimum capacity for mixing of 1.0 hp/1,000 ft³. This paragraph of the design standards also discourages the use of mechanical equipment when freezing conditions are expected. Your request to install the 20 hp mixer in an open tank is approved provided the tank is covered in the future should odors or freezing be a problem for the proposed sludge storage unit.

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

Sincerely,

Darrell McAllister, Chief
Water Quality Bureau

cc: Fox Engineering, Ames
Field Office 2

VARIANCE REQUEST

Iowa Department of Natural Resources

Environ-11/20/95-OK

1. Date : 10/27/95
2. Review Engineer : Terry Kinschman
3. Date Received : 9/8/95
4. Facility Name : Iowa Falls
5. County Number : 42
6. Program Area : CP
7. Facility Type : C09
8. Subject Area : 366
9. Rule Reference : 567-64.2(9) a
10. Design Std. Ref. : 17.3.4.3. b
11. Consulting Engr. : Fox Engineering
12. Variance Rule : 567-64.2(9) e
13. Decision: Approved
Date: 11/1/95
14. Appeal:
Date:

15. Description of Variance Request

Use 0.66 hp / 1000 ft³ for sludge holding tank

16. Consulting Engineer's Justification

An existing sludge storage tank is not mixed.

System has worked successfully at

Grinnell & Marshalltown.

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Iowa Department of Natural Resources

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7. Facility Type	:	CO9		
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