

✓ 9-8-06 15.2.4.2.1

VARIANCE REQUEST

Iowa Department of Natural Resources

1. Date: March 30, 1999
2. Review Engineer: Terry L. Kirschenman
3. Date Received: March 4, 1999
4. Facility Name: Nora Springs
5. County Number: 34
6. Program Area: CP
7. Facility Type : C05
8. Subject Area : 329
9. Rule Reference: 567-64.2(9)a
10. Design Stds Ref: 15.2.4.2.1
11. Consulting Engr: Yaggy Colby Associates
12. Variance Rule: 567-64.2(9)c

13. Decision: *Approved*
Date: *4/2/99*

14. Appeal:
Date:

15. Description of Variance Request:

Use a mechanical screen with 1/2 inch opening rather than 5/8 inch clear opening.

16. Consulting Engineer's Justifications

The 1/2 inch opening is more commonly manufactured rather than a 5/8 inch opening.
A listing of 87 installations was provided.

17. Department's Justifications

Other than fine screens, the Ten States Standards does not include a minimum sizing for the traditional mechanical bar screens, Ten States 61.121.

18. Precedents Used

The Clear Lake Sanitary District installed a mechanical bar screen with 1/4 inch clear openings.

19. Staff Reviewer: *Terry Kirschenman*
20. Supervisor: *[Signature]*
21. Authorized by: *[Signature]*

Date: *March 30, 1999*
Date: *3/31/99*
Date: *4/2/99*



THOMAS J. VILSACK
GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
PAUL W. JOHNSON, DIRECTOR

SALLY J. PEDERSON,
LT. GOVERNOR

March 30, 1999

The Honorable Roger Schumaker
Mayor of Nora Springs
45 North Hawkeye
Nora Springs, Iowa 50458-9998

RE: Mechanical Bar Screen
Nora Springs, Iowa
6-34-23-0-01

Dear Mayor Schumaker:

This letter is in response to the March 3, 1999, request from Yaggy Colby Associates for a variance from Iowa Wastewater Facilities Design Standard 15.2.4.2.1. Design Standard 15.2.4.2.1 limits the minimum clear opening for mechanical screens to 5/8 of an inch. The City of Nora Springs is proposing a mechanical bar screen with a clear opening of 0.5 inch and an emergency overflow to a manually cleaned screen should the mechanically cleaned screen become plugged. The proposal by the City of Nora Springs is substantially equivalent to the Department's design standard based on the successful experience of other facilities in the state.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Jack Riessen", with a long horizontal line extending to the right.

Jack Riessen, Chief
Water Quality Bureau

c: Yaggy Colby Associates, Mason City
Field Office 2, Mason City