



STATE OF IOWA

THOMAS J. VILSACK, GOVERNOR
SALLY J. PEDERSON, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
JEFFREY R. VONK, DIRECTOR

December 26, 2003

The Honorable Edward Robinson
Mayor of Hartley
11 South Central Avenue
Hartley, Iowa 51346-1410

RE: Variance Request
Hartley, Iowa
CS192184 01

Dear Mayor Robinson:

This letter is in response to the April 30, 2003, letter from DeWild Grant Reckert and Associates requesting a variance from Design Standard 14.5.2.1, Unit Process Reliability Criteria. This state design standard requires multiple primary clarifiers or one primary clarifier and a 5 day storage pond. DGR is proposing only one primary clarifier without a five day storage pond for a construction cost savings of \$150,000. However, no BOD reduction though the primary clarifier will be assumed in calculating the plant's design capacity.

Your request approved conditionally is substantially equivalent to Design Standard 14.5.2.1. The plant design and capacity rating must assume no treatment efficiency reduction from the primary clarifier. Adequate pretreatment limiting loadings, especially grease, to the aeration tanks shall be maintained in the absence of multiple units. In addition, the aeration tank and associated equipment shall be sized and operated to handle peak organic loads reliably without the primary clarifier in service until another sedimentation unit is constructed in the future. Wastes which exceed the plant's design capacity are prohibited.

Should you have additional questions, please contact Terry Kirschenman at 515-281-8885. My telephone number is 515-281-8877.

Sincerely,

A handwritten signature in black ink, appearing to read "Wayne Farrand", written over a horizontal line.

Wayne Farrand, P.E., Supervisor
Wastewater Section

c: Field Office 3
DeWild Grant Reckert and Associates, Rock Rapids
Henry Manning, IDED

✓ 9-11-06

VARIANCE REQUEST

Iowa Department of Natural Resources

1. Date: December 26, 2003
2. Review Engineer: Terry L. Kirschenman
3. Date Received: May 6, 2003
4. Facility Name: Hartley
5. County Number: 71
6. Program Area: CP
7. Facility Type : C05
8. Subject Area : 321
9. Rule Reference: 567-64.2(9)a
10. Design Std Ref: 14.5.2.1
11. Consulting Engr: DGR
12. Variance Rule: 567-64.2(9)c

13. Decision: *approved*

Date: *12/29/03*

14. Appeal:

Date:

15. Description of Variance Request:

Provide one primary clarifier rather than two.

16. Consulting Engineer's Justifications

No BOD reduction through the primary clarifier will be assumed. The plant has operated satisfactorily without a primary clarifier in the past and building only one primary clarifier will save \$150,000.

17. Department's Justifications

Approve project upgrade conditionally on the basis that no treatment reduction is assumed to occur in the primary clarifier. The City also must maintain sewer use ordinances to assure excessive grease loadings to the plant do not occur.

18. Precedents Used

None.

19. Staff Reviewer: *Terry Kirschenman*

Date: *12-26-03*

20. Authorized by Supervisor: *[Signature]*

Date: *12/29/03*

