

✓ 9-7-06 18C.5.1

VARIANCE REQUEST

Iowa Department of Natural Resources

1. Date: September 30, 2003
2. Review Engineer: Larry Bryant
3. Date Received: April 17, 2003
4. Facility Name: Martinsburg WWTF (RUSS)
5. County Number: 54 (Keokuk)
6. Program Area: CP (Wastewater Construction)
7. Facility Type : C05 (Biological Treatment)
8. Subject Area : 350 (Number of Lagoon Cells)
9. Rule Reference: 567-64.2(9)a
10. Design Stds Ref: 18C.5.1 (Number of Cells)
11. Consulting Engr: French-Reneker Associates, Inc./Fairfield
12. Variance Rule: 567-64.2(9)c

13. Decision: *Approved*
Date: *10/6/2003*

14. Appeal:
Date:

15. Description of Variance Request:

Regional Utility Service Systems (RUSS) and it's consulting engineer are requesting a variance from Section 18C.5.1 of the Iowa Wastewater Facilities Design Standards, which requires a minimum of three lagoon cells for all controlled discharge facilities greater than one acre total surface area. A 2.5 acre two-cell system is proposed.

16. Consulting Engineer's Justifications

Cost savings.

17. Department's Justifications

Recommend variance approval:

This variance has been granted previously for unsewered communities as an equivalent effectiveness cost-savings measure to reduce the user charge impact of simultaneous financing of both new collection and treatment systems. No problems due to variance-approved two-cell configurations have been reported. Design basis minimum equivalents, total effective storage, and maximum organic loadings will be maintained per the Standards.

18. Precedents Used

Persia (Shelby County RWA) - Approved 7/3/95 (5.36 acres)
Arispe (Southern Iowa RWA) - Approved 7/15/96
Exline (Wapello RWA) - Approved 1/3/97
Riverton - Approved 4/8/02 (4.1 acres)
Chillicothe - Approved 11/15/99
Crawfordsville (Wapello RWA) - Approved 11/15/99 (4.31 acres)

Tingley (Southern Iowa RWA) - Approved 7/11/96
Floris (Wapello RWA) - Approved 8/1/95
Unionville (Rathbun RWA) - Approved 2/19/98
Oyens - Approved 3/20/96
Kinross - Approved 6/8/01 (1.2 acres)

19. Staff Reviewer: *[Signature]*

Date: *10/2/03*

20. Supervisor: *[Signature]*

Date: *10/8/03*

21. Authorized by: *[Signature]*

Date: *10/6/2003*