

## DATA ENTRY SUMMARY:

DATA ENTERED				DATE	INITIALS
				1 7/7/86	2 JME
DATE RECEIVED	FACILITY NAME	COUNTY NO.	PROGRAM AREA CODE	FACILITY TYPE CODE	SUBJECT AREA CODE
5/28/86	4 Northridge Mall - Polk Co., Iowa	5 77	6 CP	7 C08	8 Do not have subject area code
RULE REFERENCE	DESIGN STANDARD REFERENCE	DECISION		APPEAL ACTION	
9 None	10 Chapter 20 Disinfection section 20.3.5	11		12	
		DATE		DATE	

## 13 BRIEF DESCRIPTION OF VARIANCE REQUESTED:

Use of a manual switchover connection between the two chlorinators provided for this project in lieu of automatic switchover of chlorine cylinders or containers as required by Department standards. Note in request (letter attached) that engineer is providing one 2" cylinder scale for both chlorinators.

## 14 JUSTIFICATION FOR DECISION:

Engineer has provided following reasons as justification for the requested variance

1. The mall wastewater treatment facility is a temporary facility that will be abandoned in six to ten years.
2. Two separate chlorination units have been provided for a wastewater treatment facility with a population equivalent of approximately 1,500.
3. Provision has been provided for a manual switchover between the separate treatment systems.
4. Provision of an automatic switchover of chlorine cylinders for each system would require a larger building and two sets of automatic cylinder switchover equipment increasing the cost disproportionately to the increase in treatment value.

## 15 PRECEDENTS USED:

No previous requests for such a variance

## 16 STAFF REVIEWER:

Evans

## 17 SUPERVISOR:

Haage

## 18 AUTHORIZED BY:



department of water, air and waste management

August 6, 1986

RECORD COPY

File Name Northridge Mall - Sewage  
Senders Initials FME

Shive-Hattery Engineers  
P.O. Box 1050  
Iowa City, Iowa 52244

ATTENTION: Allen R. Baker, P.E.

RE: Variance Request  
Wastewater Treatment Facilities  
North Ridge Mall  
Des Moines, Iowa

Gentlemen:

We have reviewed your request for a variance from Paragraph 20.3.5 of our design standards which requires that an automatic switchover of chlorine cylinders or containers be provided where disinfection is required for the entire year.

Inasmuch as the effluent from the proposed wastewater treatment facilities will be discharged to Drainage Ditch 51 tributary to Wafley Creek and Des Moines River, disinfection of the effluent will only be required for the period April 1 through October 31. Since year around disinfection is not required, Paragraph 20.3.5 does not apply to this project and a variance will not be required.

Contact Fred M. Evans at 515/281-5917 with any questions or comments.

Sincerely,

ENVIRONMENTAL PROTECTION DIVISION

Lavoy Haage, Supervisor  
Wastewater Permits Section

LH:FME:pla/WWPW217M18.01

cc: Field Office 5



COPY

**SHIVE-HATTERY ENGINEERS**

Highway 1 & Interstate 80, P.O. Box 1050  
Iowa City, IA 52244  
319-354-3040

Iowa City  
Cedar Rapids  
Davenport  
Waterloo  
Des Moines  
Dubuque  
Rock Island

July 16, 1986

Iowa Department of Natural Resources  
Environmental Protection Division  
Henry A. Wallace Building  
Des Moines, Iowa 50319

Re: Wastewater Treatment and  
Pumping Facilities  
North Ridge Mall  
Des Moines, Iowa

Attention: Mr. Fred Evans

Dear Mr. Evans:

In our letter of May 23, 1986 a variance from the Iowa Wastewater Facility Design Standards, Chapter 20, Disinfection, Section 20.3.5, Automatic Switchover Requirements was requested for the North Ridge Mall wastewater treatment facility. A copy of the adopted variance Subrules 64.2(9), Paragraph C, D, and E is enclosed for your reference. The portions of Paragraph C and Paragraph E2 that we believe applicable to this project are highlighted. It is our opinion that established and acceptable technologies are being applied in an innovative manner that is not covered by the current standards for the following reasons:

1. Two separate chlorinators are provided with one dedicated for each separate treatment train. Separate chlorine gas cylinders are provided for each chlorinator. One two-cylinder scale is provided for the two gas cylinders.
2. In case of a malfunction of either chlorinator, the other chlorinator can be manually adjusted to permit chlorination of the treatment train with the malfunctioning chlorinator or used to chlorinate both treatment trains.
3. The proposed wastewater treatment facility and chlorination facility is a temporary treatment system that will be abandoned in the near future.

Paragraph 20.3.5 which requires automatic switchover of chlorine cylinders or containers applies only to facilities that are required to chlorinate for the entire year. We do not know if the State operational permit for this facility will require chlorination for the entire year. It is our opinion that the automatic switchover is not required for the above reasons. Please call if you would like to discuss this matter further.

Yours very truly,

SHIVE-HATTERY ENGINEERS, INC.



Allen R. Baker, P.E.

ARB:ceh

cc: Arthur Hammon, General Growth  
John Vande Steeg, Shive-Hattery

RECEIVED  
JUL 18 PM 1 10