DR-2248

the family Shapan Comset Langton, Comission

man the interpret

The sound to the control of the weeth control of the sound to the sound of the soun

is a fine input in a prostom in almost the heart and a second in a

the definition for form of the same to the original representation to

I The notes Treason

DR-2248

Rec'd Oil, Dir. of Reg. Date 7/7/62 Time\_\_\_\_\_\_

211250316 690707 DR ADOCK 05000263

PDOR

AUG 18 1969

Mr. Steve J. Gadler 2120 Carter Avenue St. Paul, Minnesota 55108

Dear Mr. Gadler:

I am pleased to respond to your letter of June 30 addressed to Mr. Howard Shapar, Assistant General Counsel of the Atomic Energy Commission.

You expressed a concern that the conditions of 10 CFR 20 related to gaseous effluent release at the Monticello Nuclear Power Plant probably would not be able to be met if high activity during the holdup period, or unfavorable weather conditions prevailed. In this regard, the following discussion may belp to clarify what appears to be a misunderstanding of the provisions of 10 CFR 20.

Under the provisions of 10 CFR 20 the effluent from a reactor facility is to be controlled and limited to such values that the cumulative whole body radiation dose to an individual at the theoretical point of highest exposure will not exceed the limit recommended by FRC and adopted by the AEC. Irrespective of weather conditions or gaseous effluent holdup time, an operator of a nuclear power plant is not permitted to exceed release rates conservatively calculated and specified as mandatory conditions of his liceuse included to implement this principle.

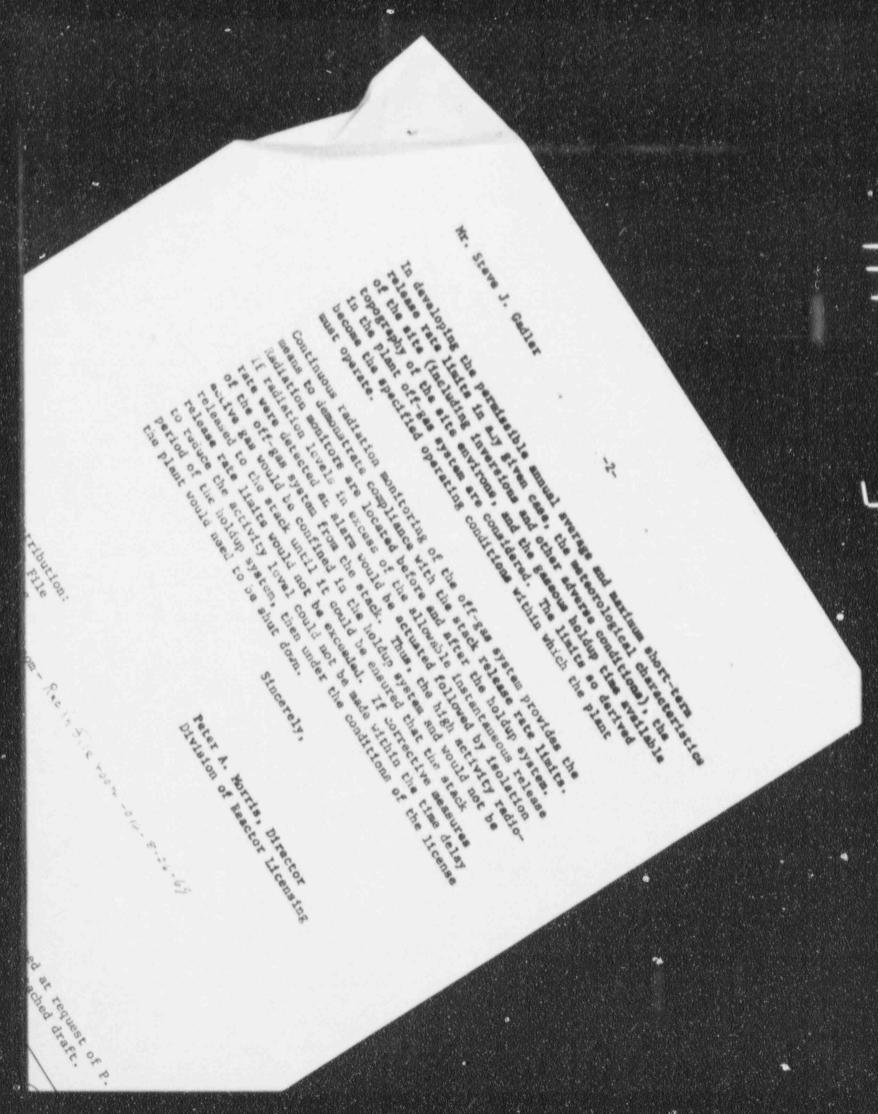
To translate these requirements into plant operating conditions for each reactor plant, specific limits on rates of radioactive material (curies per second) which may be released from the stack are derived. An annual average release rate limit is established such that the concentration of radioactive gas released under monitored and controlled conditions, when averaged over the calender year, will not result in exposure at any offsite location above the specified limit. To account for variations in plant operating characteristics and weather conditions, releases at rates above the average rate are permitted over short periods of time. Limits are also placed, however, on the levels to which these short term release rates may go. If release rates above the average are temporarily experienced, there must be corresponding periods during which release rates are below the average, so that the average release rate permitted for the year is not exceeded.

| THE RESIDENCE OF A PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PARTY OF THE PA |   |
|--|---|
| OFFICE >   | *************************************** |
| SURNAME »  |   |
| DATE >   |   |

Form AEC-318 (Rev. 9-53) AECM 0240

U.S. GOVERNMENT PRINTING OFFICE | 1868 0 - 286-417

9211250278



In developing the permissible annual average and maximum short-term release rate limits in any given case, the meteorological characteristics of the site (including inversions and other adverse conditions), the topography of the site environs, and the gaseous holdup time available in the plant off-gas system are considered. The limits so derived become the specified operating conditions within which the plant must operate.

Continuous radiation monitoring of the off-gas system provides the means to demonstrate compliance with the stack release rate limits. Radiation monitors are located before and after the holdup system. If radiation levels in excess of the allowable instantaneous release rate were detected an alarm would be actuated followed by isolation of the off-gas system from the stack. Thus, the high activity radio-active gas would be confined in the holdup system and would not be released to the stack until it could be ensured that the stack release rate limits would not be exceeded. If corrective measures to reduce the activity level could not be made within the time delay period of the holdup system, then under the conditions of the license the plant would need to be shut down.

Sincerely,

Peter A. Morrie, Director Division of Reactor Licensing

Distribution:
Docket File
DR Reading
RL Reading
AEC Pub. Doc. Room - Receiped to the room - 010- 8-24-69
RPB-1 Reading
H. L. Price
C. K. Beck
M. M. Mann
C. L. Henderson
P. A. Morris
F. Western
F. Shapar
E. Price

(Retyped at request of P. A. Morris)
See attached draft.

D. B. Vassallo G. Ertter (DR-2248)

V. Schmidt D. R. Muller

OFFICE DATE DATE B/4/69 B/5/69 B/7/69 B/1/69 B/1/69