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Mr. Edward J. Bauser Executive Director Joint Committee on Atomic Energy Congress of the United States

Dear Mr. Bauser:

A report of the Advisory Committee on Reactor Safeguards, dated January 10, 1970, concerning the Monticello Nuclear Generating Plant, is enclosed for the information of the Joint Committee.

Sincerely,

(Signed) H. L. Frice

Harold L. Price Director of Regulation

Enclosure: As stated

bcc: Cong. Rel. - 2
Chairman's office
HLPrice, DR
PAMorris, DRL
RSBoyd, DRL
GErtter, DR
DR reading
DRL reading

OFFICE &	DRLAA	DRA	Cong Rel	
	PAMornis/bh			
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## ADVISORY COMMITTEE ON REACTOR SAFEGUARDS UNITED STATES ATOMIC ENERGY COMMISSION WASHINGTON, D.C. 20545

January 10, 1970

Enastable Clean T. Scaborg Chalkern C. S. Atomic Durrey Commission Wechington, D. C. 20545

Debject: DEPORT OR MONTICULED MUCLEAR GENERATING PLANT

Dear Dr. Denborgs

At its 117th mosting, January 8-10, 1975, the Advisory Committee on Reactor States completed its review of the application by the Northern States that the graph for a license to operate Unit 1 of its Monticello Nuclear Committee, a boiling-writer reactor unit, at power levels up to 1570 Ma(t). A Subsemplitude masting with the applicant was held at the site of discussions with the applicant, the Committee had the Longitt of discussions with the applicant, the General Electric Commy, and their contractors and consultants; of discussions with the Land Re Listory Staff; and of the documents listed.

The Consistee reported to you on the Monticello site in its report of any 11, 1000, and on the construction permit application in its report of April 13, 1007. The Committee's review for construction was based on initial operation at 1400 MM(t); this report is based on the presently proposed power of 1670 MM(t) which the applicant justifies on the basis of more recent hant transfer correlations and development of the core for an its April 13, 1007 report, the Committee recommended that the stress analysis report for the field-erected reactor vessel be reviewed by independent experts and that a deplicate diesel generator be installed. Both recommendations have been followed. The Committee is also satisfied that proper attention has been given to other matters referred to in its report. Several recommendations made by the Regulatory Staff and the Committee on recent applications have also been adopted in this plant.

The main storm lines are provided with redundant valves that are required to closs outomatically in the unlikely event of a serious accident. Decause comperience with these large and special valves is limited, the Committee recommends that their performance be followed closely, and that

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January 10, 1970 Monta the Clent T. Salbarg the applicant make sufficient provisions to escure the requisite lecktiphenon if emperiouse should be unfavorable. The Committee wishes to by her informed of the resolution of this matter. The Ceneral Electric Company has an extensive integrated program for me turing vibration in poverel reactors. A major program of vibration tocaking is planned for the Branden 2 reactor and is expected to precede operation of the Manticello unit. The Committee believes that a limited program of vibration monitoring is appropriate for the Monticello reactor during preoperational tests and initial operation. In the event that the retion 2 data are not clearly favorable, or are not forthcoming before the Heatlebllo unit is roady to operate, the Committee believes that the matter chould be reviewed by the Regulatory Staff before routine full payer operation of the Monticello unit. The containment is penetrated by a large number of small dismeter instrument lines. The Committee recommends that special attention be given to encuring the continued integraty and isolability of these lines and a pro row for the periodic teching and examination of the valves in these line. The elequicy of mensures taken with regard to such instrument lines should be confirmed by the Regulatory Staff. Continuing research and engineering studies are expected to lead to enhancement of the solety of water-cooled reactors in other areas than those mentioned, for enample, by the determination of the extent of the generation of hydrogen by addicayain and by other sources in the unlikely event of a loss-of-content applicant, development of instrumentation for in-service monitring of the procesure vessel and other parts of the primary system for vibration and detection of loose parts in the system, by the development of further means of preventing common follure modes from negating scram action and of design Tertures to make telerable the consequences of failure to scram during anticipated transfents, and evaluation of the consequences of water concomfinition by erructural materials and coutings in a loss-of-coolant Accident. As solutions to the problems develop and are evaluated by the Regulatory Staff, appropriate action should be taken by the applicant on a reasonable time scale. The Advisory Committee on Reactor Safeguards believes that, if due remains is given to the items mentioned above, and subject to satisfactory completion of construction and preoperational testing, there is reasonable arsurence that Monticello Muclear Generating Plant Unit 1 can be operated

Honorable Clenn T. Seaborg . 3 -January 10, 1970 at power levels up to 1670 Ma(t) without undue risk to the health and enforty of the public. Mr. Hill did not participate in the review of this project. Sincerely yours, Original Signed by Joseph M. Hendrie Joseph M. Hendrie Chairman 1. Final Galoty Analysis Report for the Monticello Nuclear Generating Plant Unit 1 2. Amendments No. 10-24 to license application