

**ADVISORY COMMITTEE ON REACTOR SAFEGUARDS**  
**UNITED STATES ATOMIC ENERGY COMMISSION**  
**WASHINGTON, D.C. 20545**

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Director of Regulation

**INSTRUMENTATION TO DIAGNOSE THE COURSE OF A SERIOUS ACCIDENT**

Your memo of June 11, 1973, to R. Fraley, Executive Secretary, indicates that a report on monitoring post-accident conditions in power reactors is under review by the Regulatory Staff.

This issue has been discussed during the course of several recent project reviews and it appears that considerable information regarding plant status during potentially serious accidents, including conditions beyond those usually analyzed in the Safety Analysis Report, could be obtained from currently available and frequently already installed instrumentation, if appropriate procedures and instructions were provided. Additional emphasis is needed, however, if this type of information is to be promptly available for use by plant operators during the course of an accident. It is important that instruments of adequate range be provided. Any procedures and/or equipment provided for this purpose should be relatively simple and straightforward to permit its effective use during an accident situation.

The Committee suggests that the Regulatory Staff examine this aspect of emergency preparedness in each review for an operating license.

/s/ H. G. Mangelsdorf

H. G. Mangelsdorf  
Chairman