

PDR



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

December 2, 1983

TO ALL POWER REACTOR LICENSEES AND APPLICANTS FOR OPERATING LICENSES

Gentlemen:

Subject: NRC Staff Recommendations Regarding Operator Action for
Reactor Trip and ATWS (Generic Letter 83-32)

The NRC staff has developed the enclosed "Staff Position on Operator Actions for Reactor Trip and ATWS." The need for the development of a position became apparent during discussions with several utilities as a result of reactor trip failures. The attached position is being forwarded to you for information as it is being used within the staff for guidance. It does not constitute a requirement.

Darrell G. Eisenhut
Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation

See Jacket

Enclosure: As stated

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STAFF RECOMMENDATIONS ON OPERATOR ACTIONS FOR REACTOR TRIP AND ATWS
(OCTOBER 1983)

Operators have responsibilities and take some actions for all reactor trips. In the case of a failure of the automatic trip system, operator action is the only backup to initiate rod insertion to shut down the reactor. Operator action to immediately back up all automatic trips with a manual trip based solely on receipt of "positive indication" of an "automatic trip demand" without evaluating the automatic trip system's success is believed by the NRC staff to be conservative and, therefore, the preferred method. This operator action is not currently required by the NRC. Although not as conservative, another method is to have operators manually trip the reactor when the successful completion of an automatic trip cannot be both immediately and positively confirmed. With either method, if successful completion of reactor trip cannot be immediately and positively confirmed after manual trip of the reactor, appropriate backup measures must be prescribed as part of the ATWS emergency instructions.

Facility procedures should identify the instruments that provide the "positive indication" of an "automatic trip demand." In addition, if the choice is made to verify failure of the reactor trip system prior to inserting a manual trip, the procedures should identify the instruments that provide the "immediate and positive confirmation" of the success of the automatic reactor trip. The instruments selected must provide timely indications with adequate reliability to minimize the number of unnecessary manual scrams and yet assure the operator is alerted to a system failure when operator action is necessary.