

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

NRC PUBLIC DOCUMENT ROOM

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JUN 3 0 1980

The Honorable William Proxmire United States Senate Washington, D. C. 20510

Dear Senator Proxmire:

Your letter of March 14, 1980 brought to my attention the concern of your constituent Ms. Nancy Bohm concerning emergency preparedness warning systems around nuclear power plants.

Since the summer of 1979, the Nuclear Regulatory Commission has been actively pursuing a major program of upgrading the state of emergency preparedness in the environs of operating nuclear power plants. The program was initiated by a series of regional meetings in which new and more stringent criteria were explained to licensee representatives and State and local officials. The criteria have recently been published as a joint Nuclear Regulatory Commission - Federal Emergency Management Agency document (NUREG-0654/FEMA-REP-1), a copy of which is enclosed with this letter.

By direction of President Carter on December 7, 1979, the Federal Emergency Management Agency (FEMA) is responsible for review of emergency plans, which includes evacuation planning, of State and local authorities in the environs of a nuclear power plant. The NRC works closely with FEMA in this regard. Upon completion of its review, FEMA will present its findings on the adequacy of offsite emergency plans to NRC, and the NRC will then make the final licensing decision.

The acceptance criteria in NUREG-0654/FEMA-REP-1 include three principal items: (1) the distance to which planning should be done, (2) the criteria for defining an emergency, and (3) the time for notifying the general public.

The NRC Commissioners have recently endorsed an NRC-EPA task force report, NUREG-0396, which is the planning basis for the development of State and local radiological emergency response plans in support of light water nuclear power plants. This report recommends that planning for protective measures should be made out to a distance of 10 miles from an operating nuclear power plant. The report also recommends that there should be provisions for early warning and instructions to the general public. The emergency planners are defining this requirement in terms that state there should be a maximum of 15 minutes from the time an operator of a nuclear power plant defines an emergency to his notification to local authorities, and there should be a maximum of another 15 minutes for local authorities to alert the general public within 10 miles of the plant. We have not defined the means by which the general

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public shall be alerted. Sirens can be used in built-up localities or some other system similar to weather alert systems for rural areas. The purpose of the early warning system is not to instruct people to evacuate an areati is simply to gain their attention and to have them shelter in one's home and to close doors and windows and listen for further instructions on the radio and TV, which may include subsequent instructions to evacuate. With regard to resources for these systems, FEMA and NRC expect that the nuclear facility operator will have an interest in assisting State and local governments by providing certain manpower, items of equipment, or other resources that the State and local governments may need but are themselves unable to provide.

A further key element in upgrading emergency plans is the concept of emergency action levels. NUREG-0610, Emergency Action Level Guidelines for Nuclear Power Plants is included as an Appendix to NUREG-0654/FEMA-REP-1. We have defined a number of parameters in terms of observable indications in the control room which will require immediate notification to local authorities. For example, the loss of two of the three fission product barriers would be defined in observable indications on control room instrumentation such as high pressure and temperature in containment as well as high radiation levels in containment. The goal in upgrading emergency plans to these criteria is to ensure that the general public in the environs of the plant will have early warning and clear instructions of what to do in the event of a potentially serious accident at a nuclear power plant.

We trust this information will be helpful to you.

Sincerely,



William J. Dircks, Acting Executive Director for Operations

Enclosures:

1. NUREG-0654/FEMA-REP-1

2. Incoming Letter dated 2/15/80

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Pebruary 15, 1980

Senator M. Proxi-ire United States Senator Washington D.G., 20510

Desr Senstor,

As a student at the University of Misconein River Pasire Island involved with most and many in.), I are concerned about possible dangers involved with most in Rolls.), I are concerned about possible dangers involved with most in any into it are concerned about to select any one in the contract of the president in the contract in the

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John Carp also points out that one of the metions sort expendive ending the only time it was really tried.

Besides failing to mention who was going to pay for the suggested alar system the Feds have not defined what they consider a reasonable cause for evacuation. On Monday February 13, 1980, a cooling system inside the already crippled Three Mile Island Nuclear Plant leaked as much as 1,000 gallons of highly radioactive water. Authorities said that no radioactive meterial escaped, whereas the control room operator reported as much as 300 millicuries of Krypton gas escaped into the atmosphere. How much radioactive material will officals allow to escape into the atmosphere before we are warned?

Radiation is especially dangerous to us because we can't see, feel, smell, hear or touch it. It gives off rays which penetrate and damages our cells, children are more susceptible than adults to radiation damage because their cells are constantly growing and dividing.

of any dangers involved. Therfore I'm asking you to support the NRC's plans for a warning system, if such a device can be pro en effective. Please also support any plans that will warn of dangers as they occur and not days later. Your consideration of these matters will be greatly appreciated.

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Sincerely,

Nancy Bohr 9

River Falls, WI. 54022

"Three Mile Island Radiosctive Water Leaks", St. Paul Pioneer Press, Tuesday, February 12, 1980 page 1.

"What Radiation Is and Does", North Country Anvil, A Primer on Nuclear Power. No. 30s, published by box 37, Millville, No. 55957 1979 page 11.

Helen Galdicoot, "At the Grossroads", New Age Magazine, December 1977, reprinted by Environmental Action Reprint Service.