



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20535

NRC PDR

MAR 21 1979

Mr. William E. Haggett, President  
Associated Industries of Maine  
2 Central Plaza  
Augusta, ME 04330

Dear Mr. Haggett:

This is in response to your telegram of March 16 to Secretary Schlesinger regarding the orders by the Nuclear Regulatory Commission on March 13, 1979, to shut down five nuclear power plants in the eastern United States because of questions about the ability of their piping systems to withstand earthquakes.

Shortly before those orders were issued, it became apparent to NRC staff that analysis techniques which had been used in the seismic design of safety-related piping for these five plants were not in accord with proven and generally accepted engineering practice. The result could be overstressing of piping and supports for earthquakes which could reasonably be expected to occur during the lifetimes of these plants. The eastern United States is generally believed to be a region of low seismicity, when compared to the western part of the country, but is not without significant historical seismic activity. Attached is a map showing the location and intensity of earthquakes that have occurred in your region.

Some of the piping systems involved could, if failure occurred, cause loss of coolant to the nuclear reactor. In addition, systems needed to shut the plant down safely in that event could also be affected. Thus, an earthquake of not extremely low likelihood would have the potential for causing an accident and for preventing operation of safety systems designed to cope with the accident.

Our objective is to review the situation in an expedited and disciplined manner so that these plants can be returned to operation with assurance that this will not constitute a threat to the public health and safety.

Sincerely,

Harold R. Denton, Director  
Office of Nuclear Reactor Regulation

Enclosures:  
Earthquake Maps for Southern Maine  
and Northern New England

311 024

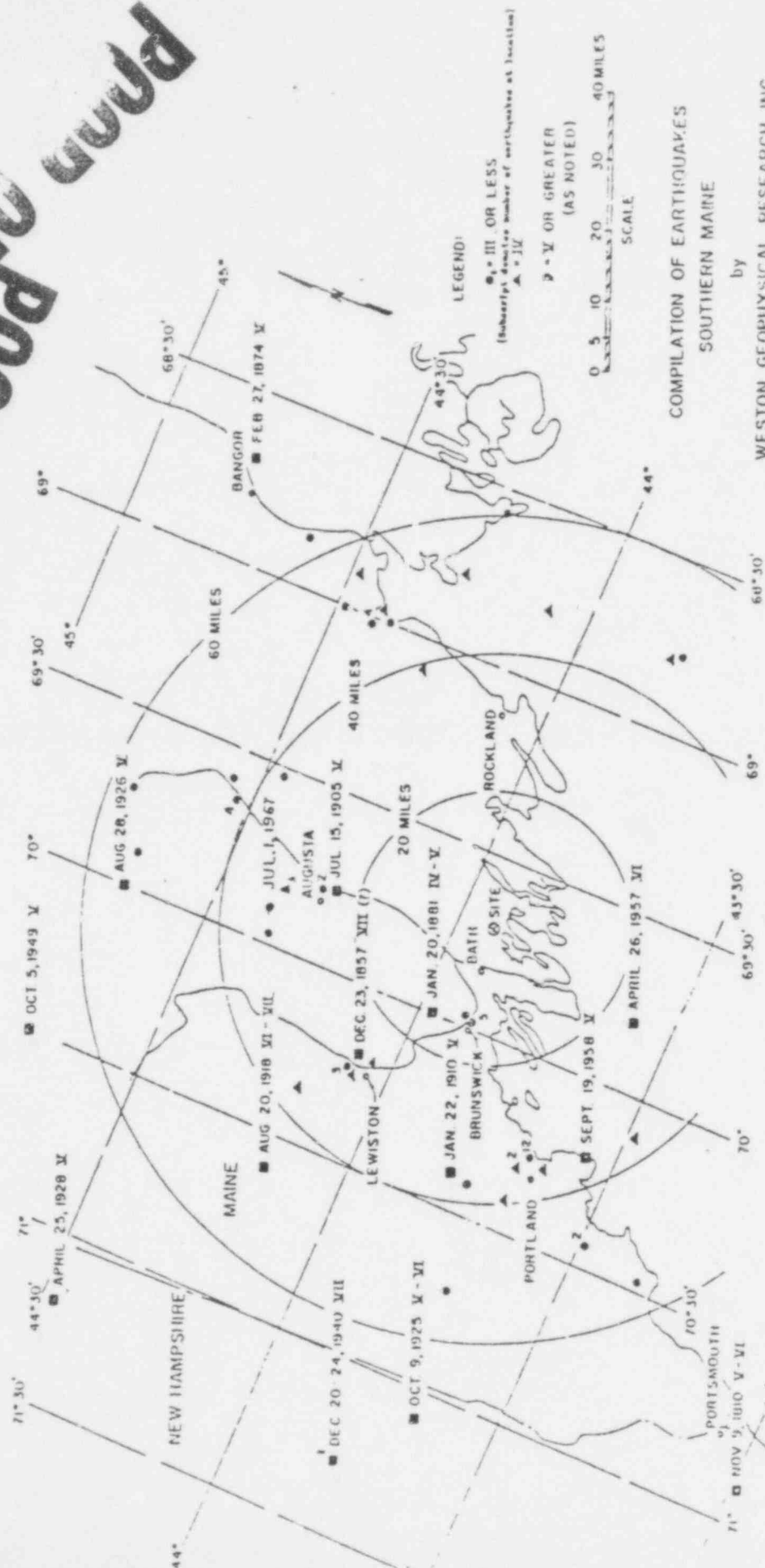
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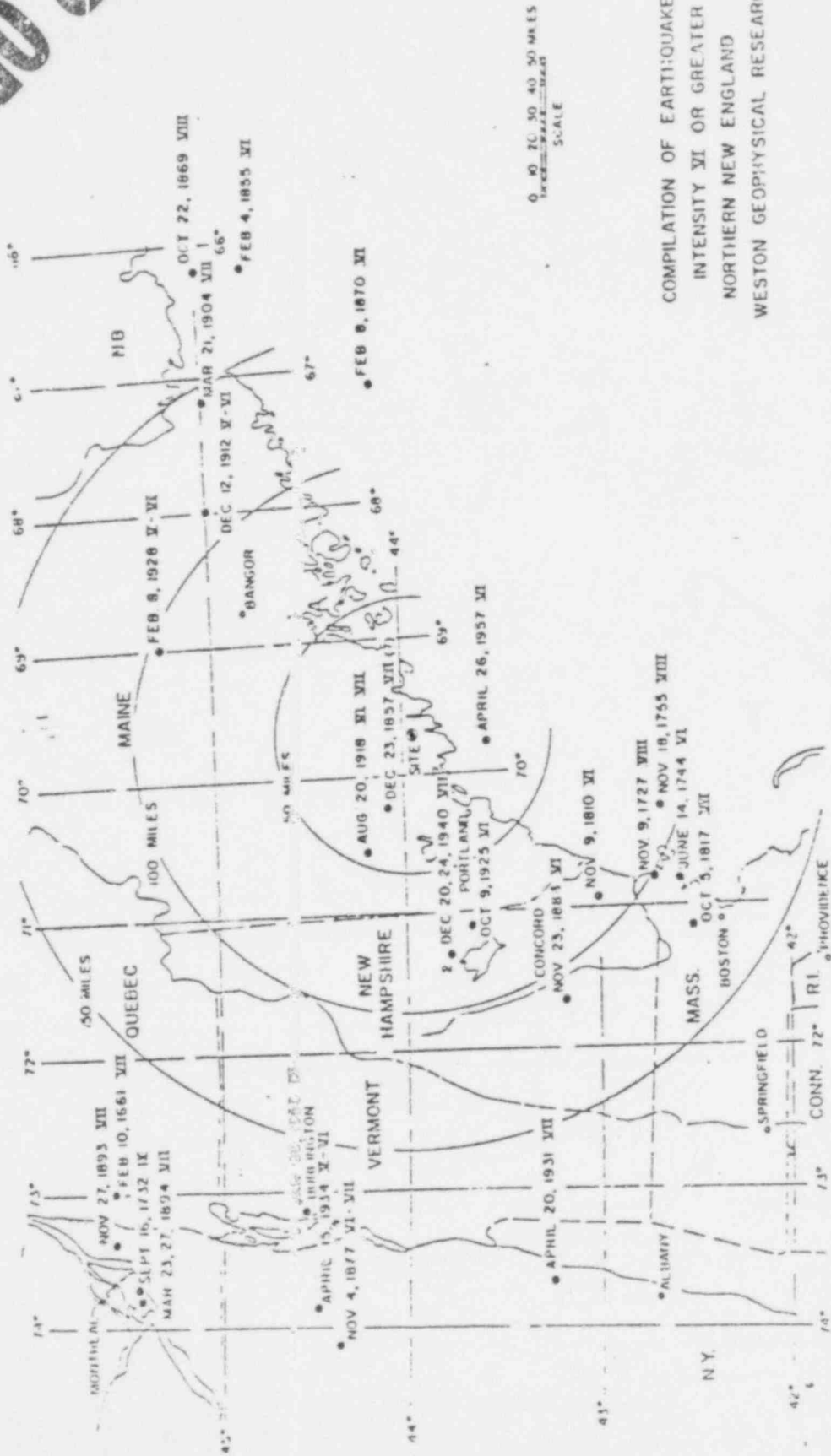
**POOR ORIGINAL**

311 025



COMPILATION OF EARTHQUAKES  
 SOUTHERN MAINE  
 by  
 WESTON GEOPHYSICAL RESEARCH, INC  
 FIG. 2.5-3

POOR ORIGINAL



COMPILATION OF EARTHQUAKES  
 INTENSITY VI OR GREATER  
 NORTHERN NEW ENGLAND  
 WESTON GEOPHYSICAL RESEARCH, INC.

FIG. 2.5-B