

NORTH ANNA ENVIRONMENTAL COALITION

Chairman Joseph P. Hendrie
Commissioner Victor Gilinsky
Commissioner Richard Kennedy
Commissioner Peter Bradford
U. S. NUCLEAR REGULATORY COMMISSION
Washington, D. C. 20555

P.O. BOX 3951
CHARLOTTESVILLE, VIRGINIA 2
(717)533-7694 or (804)293-
January 10, 1978

Gentlemen:

On December 4, the Coalition mailed each Commissioner a copy of a letter to the North Anna Atomic Safety and Licensing Board asking for study of REGIONAL EPICENTER MAP--
Period January 21, 1974 through August 1, 1977.

Enclosed with that letter was an obsolete map showing 22 micro-earthquakes northwest of the North Anna dam as opposed to the cluster of 46 micro-earthquakes on the above-mentioned REGIONAL EPICENTER MAP. Today, please find enclosed a detail from the more recent map which shows the cluster of 46 micro-earthquakes at the point where Neuschel's Lineament (renamed Spotsylvania Lineament on the map) intersects Lake Anna. vEPCO consultants note yet another convergence: "A hypothetical projection of the Stafford Fault Zone southwest from Fredericksburg would intersect in the same general area of the reservoir."

We trust the Commissioners are aware of the work by the United State Geological Survey (USGS) in the past two years which identified the Stafford Fault Zone, and revised geological estimates of fault age in the Piedmont, finding structures many years younger than was previously assumed. Also, recent work by the National Science Foundation lends support to Neuschel's Lineament as a major regional fault -- now seemingly reactivated by the water of Lake Anna.


In the light of this new and growing body of geological scholarship regarding the Piedmont region, the Coalition is surprised to find the NRC adhering to conclusions reached on Neuschel's Lineament "in the early 1970's" by a "USGS reviewer" who wrote that "Details regarding either local or regional geologic structures...are very poorly known."(W.Dircks-12-6-77)

NAEC urges Commission review of the entire North Anna case.

8508220532 850722
PDR FOIA
BELL85-363 PDR

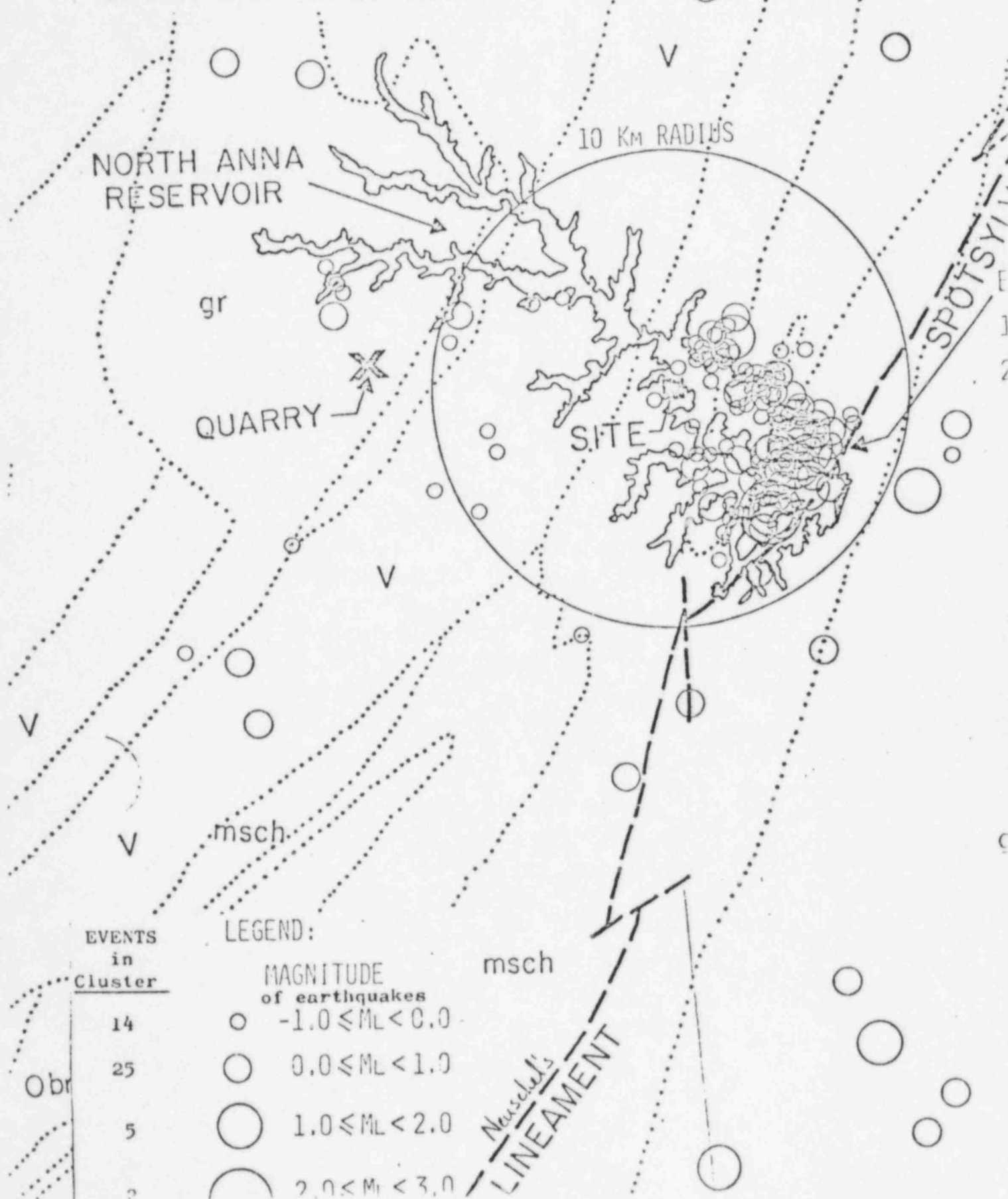
Enclosure

Sincerely,


Julie Allen (Mrs. P. M.)
President, NAEC

Detail from VEPQ's Regional
Epicenter Map--microearthquakes
registered January 21, 1974
through August 1, 1977

Submitted on October 25, 1977



EVENTS
in
Cluster

- 14
- 25
- 5
- 2

LEGEND:

MAGNITUDE
of earthquakes

- $-1.0 \leq M_L < 0.0$
- $0.0 \leq M_L < 1.0$
- $1.0 \leq M_L < 2.0$
- $2.0 \leq M_L < 3.0$