

United States Nuclear Regulatory Commission

Protecting People and the Environment

Updates to the Seismic Hazard Reevaluations

May 1, 2014



Japan Lessons Learned



Introduction



<u>Japan 2011</u>

- 9.0 Earthquake
- Fukushima Daiichi Plant Response
 - Reactors shut down as expected
 - Emergency generators supplied power as expected
 - Plant conditions stabilized and were controlled

Virginia 2012

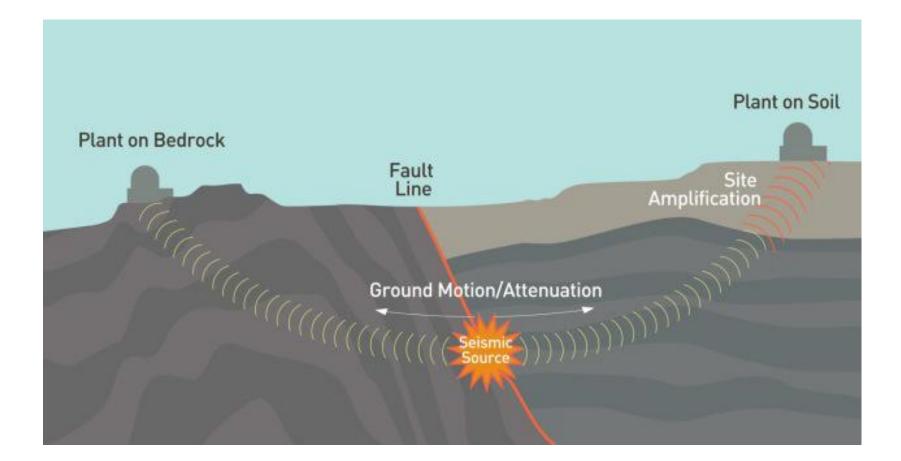
- 5.8 Earthquake
- Above the Design Basis for North Anna
- North Anna shut down safely
- No significant plant damage

NRC Response

- Near Term Task Force Report concluded that there was no imminent risk to continued operation.
- However, to ensure adequate protection, it would be appropriate for licensees to reevaluate their seismic hazards given that the state of knowledge has evolved since original licensing.
- Request for Information (10 CFR 50.54(f)) Letter issued March 12, 2012.
- Licensees to reevaluate their seismic hazards using present-day requirements and guidance



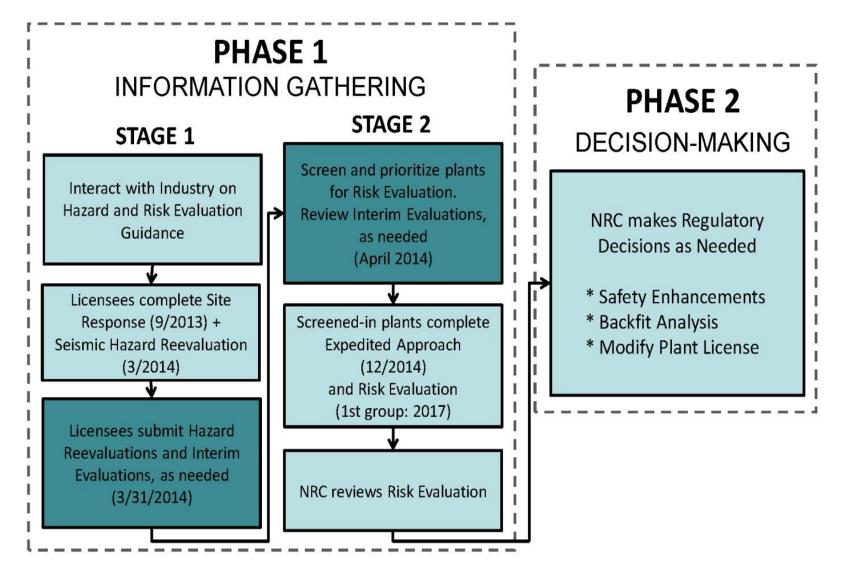
Concepts of Seismic Hazard Evaluation





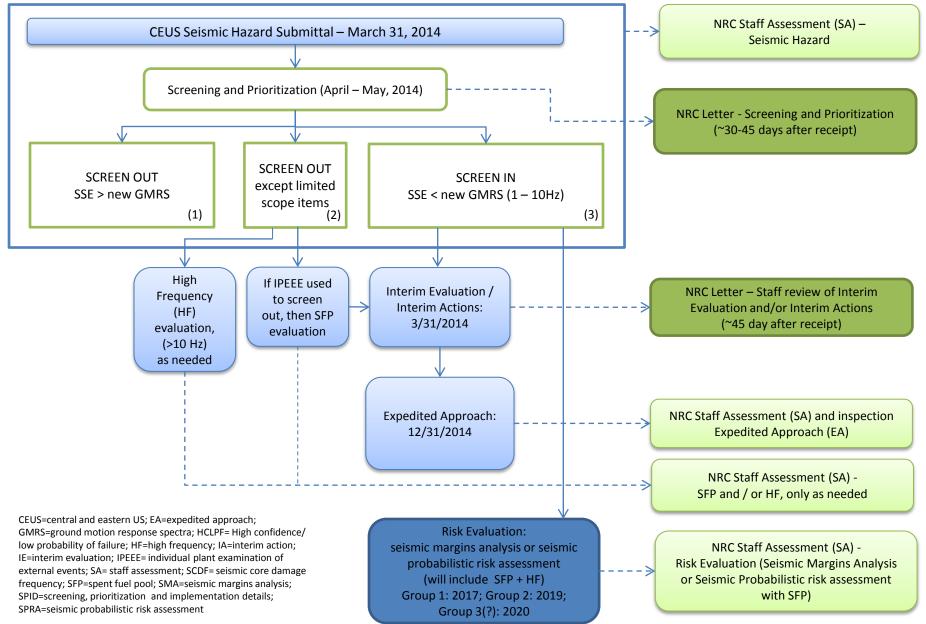
Seismic Reevaluations

Protecting People and the Environment



4/4/2014

CEUS R2.1 Seismic Hazard Re-evaluation Overview – 50.54(f) Phase 1









- The Near Term Task Force concluded that there are no imminent risks of continued operation and licensing activity.
- The NRC requested that licensees reevaluate their hazards in order to ensure adequate protection consistent with the current state of knowledge and methods.

The NRC is working through our established regulatory processes.