

Comment No. 27 (cont.)

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larger is expected somewhere in the New Madrid Seismic Zone about every 70 years (Johnston and Nava, 1984 as cited in Munsey, nda)^a.

^a Munsey, Jeffrey W. nda. Geology, Seismology and Earthquake Hazard of the New Madrid and Southern Appalachian Seismic Zones: A Comparative Overview. From the Internet: <http://tansi.gg.utk.edu/NMSZvsSASZ.html>. Accessed on: 5/22/01.

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The Y-12 SWEIS, Section D.7 gives a complete analysis of the likely accident scenarios that would occur at Y-12. Existing safety analyses, hazard analyses, and other documentation were reviewed to identify the range of postulated accidents that include high frequency-low consequence accidents as well as low frequency-high consequence accidents. The accident scenarios analyzed were those that could result in potential injuries to the public or workers or from release of hazardous materials from particular facilities and operations. These accidents are also representative of primarily high consequence accidents at Y-12.

The design process for new Y-12 facilities would comply with the requirements for safety analysis and evaluation in DOE Order 430.1A, *Life Cycle Assessment Management*, DOE Order 5480.23, *Nuclear Safety Analysis Reports*; and DOE Order 420.1, *Facility Safety*. New facilities design would ensure that these facilities would be highly resistant to the effects of natural phenomena and credible events such as fires and explosions.

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Parties to the Nuclear Nonproliferation Treaty agree not to directly or indirectly transfer nuclear weapons or other nuclear explosive devices or control over them to any recipient; and not to in any way assist, encourage, or induce nonnuclear weapon states to manufacture or alter use, or acquire nuclear weapons, or alter nuclear explosive devices or control over them. Continuation of the Y-12 mission, and construction and operation of the HEU Materials Facility or Special Materials Complex by the United States does not conflict with such an agreement.