



Nuclear Regulatory Commission
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NRC093



United States Nuclear Regulatory Commission

Protecting People and the Environment

NUREG/CR-6966
PNNL-17397

Tsunami Hazard Assessment at Nuclear Power Plant Sites in the United States of America

Final Report

Office of New Reactors

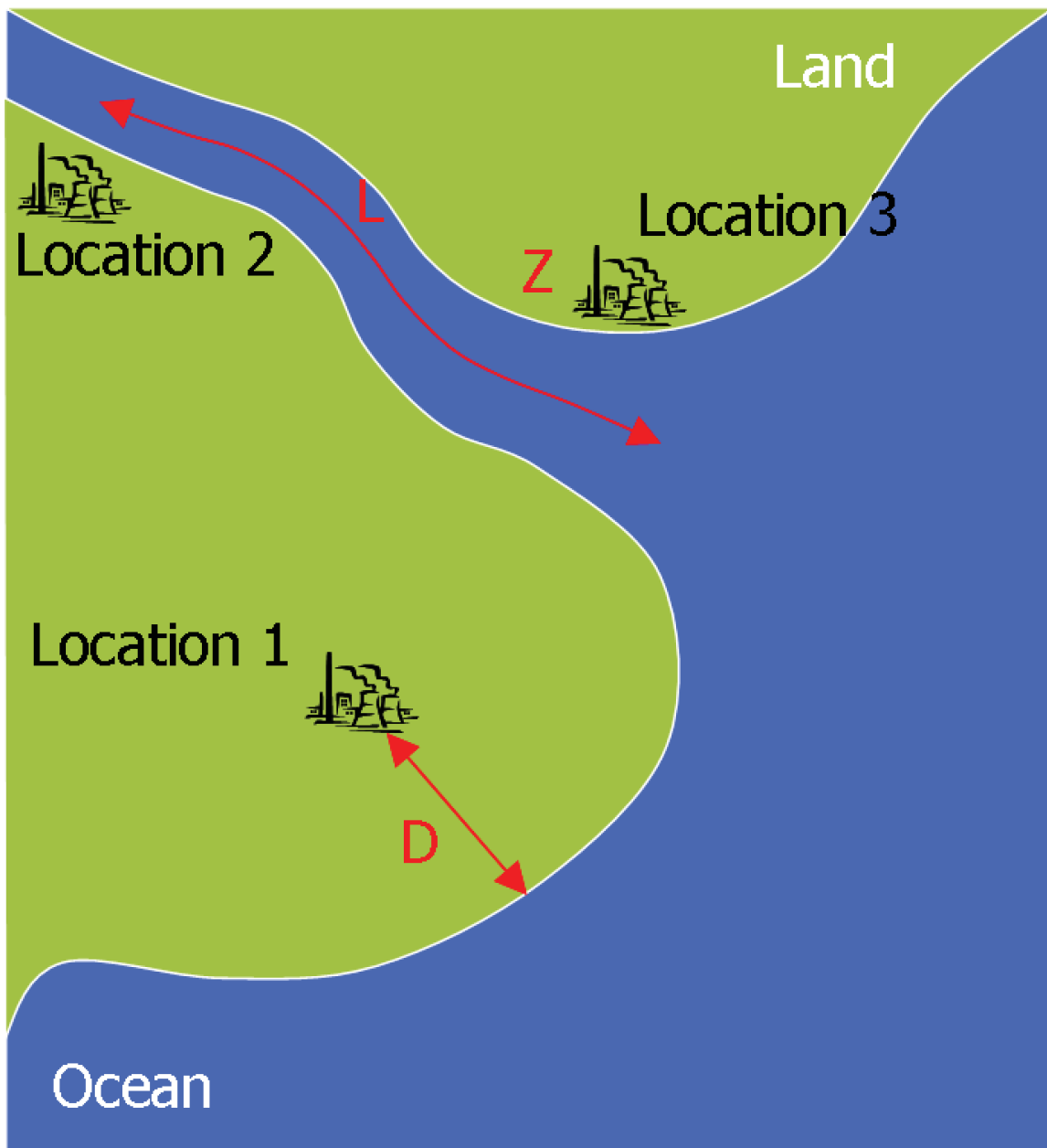


Figure 2-1. The DLZ screening rule.

Location 2, located on a river near an estuary, could be safe if the backwater effects or bores induced by the PMT affected areas in extent less than the longitudinal distance (L) measured along the river. Bores can be induced by a tsunami (Koch and Chanson 2005) and were observed in

Hawaii in 1946, in Japan in 1983 and 2003, and in Thailand, Malaysia, and Sri Lanka in 2004. Bores propagating upstream from the mouth of a river may be caused by tsunamis under favorable hydraulic conditions and can travel upstream several tens of miles (km) from the estuary