

American Nuclear Society

**estimating tornado, hurricane, and
extreme straight line wind characteristics
at nuclear facility sites**

an American National Standard

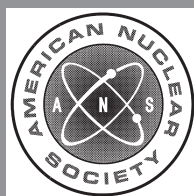
REAFFIRMED

June 29, 2016

ANSI/ANS-2.3-2011; R2016

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This standard does not necessarily reflect recent industry initiatives for risk informed decision-making or a graded approach to quality assurance. Users should consider the use of these industry initiatives in the application of this standard.



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**American National Standard
Estimating Tornado, Hurricane, and
Extreme Straight Line Wind Characteristics
at Nuclear Facility Sites**

Secretariat
American Nuclear Society

Prepared by the
**American Nuclear Society
Standards Committee
Working Group ANS-2.3**

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American National Standard

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Foreword

(This Foreword is not a part of American National Standard “Estimating Tornado, Hurricane, and Extreme Straight Line Wind Characteristics at Nuclear Facility Sites,” ANSI/ANS-2.3-2011.)

This standard is a revision to ANSI/ANS 2.3-1983, “Standard for Estimating Tornado and Extreme Wind Characteristics at Nuclear Power Sites.” The revision of the 1983 standard began in May of 2005. In this revision, the scope of the standard was expanded to include hurricane wind characteristics. A change to the Fujita damage scale as a function of wind velocities, adopted in 2007 by the National Weather Service, resulted in the wind speeds associated with the Fujita damage scale being replaced by the Enhanced Fujita Scale as shown in Table 1. Also included in the scope expansion is the applicability of this standard to all nuclear facility sites, not just nuclear power plant sites.

This standard might reference documents and other standards that have been superseded or withdrawn at the time the standard is applied. A statement has been included in the reference section that provides guidance on the use of references.

This standard does not incorporate the concepts of generating risk-informed insights, performance-based requirements, or a graded approach to quality assurance. The user is advised that one or more of these techniques could enhance the application of this standard.

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