



# Standard Practice for Calibrating Oil Spill Dispersant Application Equipment Boom and Nozzle Systems<sup>1</sup>

This standard is issued under the fixed designation **F1460/F1460M**; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This practice covers uniform procedures for determining and reporting the dosage rate of oil spill dispersant application equipment.

1.2 This practice is applicable to spray systems employing booms and nozzles and is not fully applicable to other systems such as fire monitors, sonic distributors, or fan-spray guns.

1.3 This practice is applicable to systems for use on ~~ships or boats and helicopters or~~ ships, boats, helicopters, or airplanes.

1.4 This practice is one of four related to dispersant application systems using booms and nozzles. One is on design, one on calibration, one on deposition, and one on the use of the systems. Familiarity with all four standards is recommended.

1.5 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and ~~health~~ environmental practices and determine the applicability of regulatory limitations prior to use.*

1.7 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

## 2. Referenced Documents

2.1 *ASTM Standards:*<sup>2</sup>

[F1413 Guide for Oil Spill Dispersant Application Equipment: Boom and Nozzle Systems](#)

## 3. Significance and Use

3.1 This practice will enable calibration of oil spill dispersant application equipment and ensure a desired dosage and uniformity across the swath width.

3.2 The data provided by the methods described herein will permit the preparation of a chart relating delivery rate with application vehicle speed, flow meter reading or pump setting so that in actual application, the desired dosage will be achieved.

3.3 This practice will ensure that a dispersant application system is functional, capable of delivering a specified dosage, and that major components are operational. This will also ensure that the unit is functioning according to design specifications as detailed in Guide **F1413**.

## 4. Apparatus and Materials

4.1 *Pails*—of capacity 7 to 20 L ( $\approx$  2 to 5 U.S. gal) to catch the spray from the nozzles.

<sup>1</sup> This practice is under the jurisdiction of ASTM Committee **F20** on Hazardous Substances and Oil Spill Response and is the direct responsibility of Subcommittee **F20.13** on Treatment.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](#), or contact ASTM Customer Service at [service@astm.org](#). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.