American National Standard

National Waste & Recycling Association

for Equipment Technology and Operations for Wastes and Recyclable Materials ---
Facilities for the Processing of Commingled Recyclable Materials - Safety Requirements

NATIONAL WASTE & RECYCLING ASSOCIATION
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American National Standard
for Equipment Technology and Operations
for Wastes and Recyclable Materials

Facilities for the Processing of
Commingled Recyclable Materials—
Safety Requirements

Secretariat
National Waste & Recycling Association

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American National Standard

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FOREWORD  (This Foreword is not a part of American National Standard Z245.41 – 201X)

This standard establishes safety requirements for the design, manufacture, construction, modification, maintenance and operation of facilities used in the processing of commingled wastes and recyclable materials. It is a revision of the original safety standard, approved and published in 1997. It does not cover other types of facilities such as, waste-to-energy plants, scrap processing facilities, transfer stations, or mixed waste processing facilities, unless there is a commingled processing operation as part of these facilities. In those cases, this standard covers only the part of the facility, which performs the processing of commingled materials.

This standard was developed and revised by ANSI Accredited Standards Committee Z245 Subcommittee 4 on Facility Safety. Representatives from the following organizations also participated in the preparation of the standard and assisted the committee: National Waste & Recycling Association Processing Equipment Project Working Group, representatives of independent manufacturers, end-users, consultants, and equipment distributors.

Inquiries, requests for interpretation, and suggestions for improvement of this standard should be directed to the Secretary, Accredited Standards Committee Z245, c/o National Waste & Recycling Association, 1550 Crystal Drive, Suite 804, Arlington, Virginia 22202.

This standard was processed and approved for submittal to ANSI by the Accredited Standards Committee on Equipment Technology and Operations for Wastes and Recyclable Materials, Z245. Committee approval of this standard does not necessarily imply that all members voted for its approval. At the time it approved this standard, the Z245 Committee had the following members:

Susan Eppes, Chair

Alan Bortnick  Big Stuff, Inc.
Nathan Brainard  Insurance Office of America
Ed Correale  PTR Baler & Compactor Company
Steve David  Nu-Life Environmental, Inc.
Susan Eppes  EST Solutions, Inc.
Ralph A. Ford  Waste Industries
John Gilstrap  Institute of Scrap Recycling Industries, Inc.
David E. Malter  Malter Associates, Inc.
Shawn Mandel  Waste Connections Inc.
Stephen Martin  Republic Services, Inc.
W.A. Martin  Waste Management, Inc.
Chaz Miller  National Waste & Recycling Association
Paul Moore  NIOSH
Garry Mosier, CSP  Allied Waste Industries, Inc.
Denny Pool  SP Industries, Inc.
Mike Schwalbach  Rehrig Pacific Company
Karon Simoni  City of Rochester
John Wayhart  Assurance Agency, Ltd.
Jerald G. Zanzig  Zantec, Inc.
The ASC Z245 Subcommittee 4 (Facilities) that drafted this revised American National Standard had the following members:

Susan Eppes, Chair
Jerry Peters, Vice chair
Janice Comer Bradley, Secretary

Brad Agoston          David Loder
Nicolas Belanger      Dave Malter
Angela Beres          Shawn Mandel
Gaetan Bolduc         W. A. Martin
Gary Brooks           Steve Martin
Bill Buzzelli         Ayana Nickerson
Ed Correale           Milo Pipkin
Nick Davis            James Robbins
Pete Desjardins       Kelly Rooney
Jane Dolezal          Don Ross
John Downing          Mike Schwalbach
George Fink           Mark Stoltman
Gary Fleming          Richard Sweet
Ralph A. Ford         Jim Webb
Shannon Harrop        Brenda Westover
Ron Jackson           Alethea Wofford
Bill Johnson          Jerry Zanzig
Dave Lewis
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for Equipment Technology and Operations
for Wastes and Recyclable Materials—

Facilities for the Processing of Commingled
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Safety Requirements

1 Scope and purpose

1.1 Scope

This American National Standard is applicable to all persons who design, manufacture, assemble, modify,
operate, clean, maintain, service, or repair material recovery facilities (MRFs) which engage in receiving,
storing, and processing commingled recyclable materials which have been previously collected or
otherwise diverted from the solid waste stream. This standard does not apply to scrap processing facilities
(North American Industry Classification system code number 42193, formerly Standard Industrial
Classification number 5093), unless the scrap processing facility operates a MRF, which MRF would then
be subject to this standard.

The safety requirements are divided into 8 sections and are applicable as described in clauses 1.1.1
through 1.1.3.

1.1.1 Sections 1 through 3 provide general information and definitions and shall apply to all material
recovery facilities (MRFs) covered by this standard.

1.1.2 Sections 4 through 7 provide for physical plant, processing machinery and mobile equipment, and
warning signs requirements that shall apply to both new and existing MRFs.

1.1.3 Section 8 provides for safety programs and safety requirements that shall apply to both new and
existing MRFs.

1.2 Purpose

This standard establishes safety requirements with respect to the design, manufacture, installation,
reconstruction, modification, maintenance, and operation of facilities for the processing of commingled
recyclable materials.

1.3 Effective date

All facilities placed in operation eighteen (18) months after the approval date of this standard shall be
designed, constructed and operated in accordance with the requirements of this standard.