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A collaborative program between the
ADA National Network and the
U.S. Access Board



The Session is Scheduled to begin at 2:30pm Eastern Time
We will be testing sound quality periodically

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Webinar Features (con't)

- **Asking ?'s:** Highlight "GreatLakes" in the participant list and "right click" on your mouse to send a private message. Type your message into the chat area that appears. The question will be viewed by all moderators. (Keyboard - F6, Arrow up or down to locate "GreatLakes" and select to send a message)
- **Emotions/Hand-raising:** Please do not use these features during this session unless instructed by the presenter.

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Presenters



Peggy Greenwell



Bill Botten

U.S. Access Board

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Accessible Amusement Rides

Session Agenda

- Background & Effective dates
- Scoping provisions
- Technical provisions
- Transfer research
- Other related provisions
- Questions

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Background and Effective Dates



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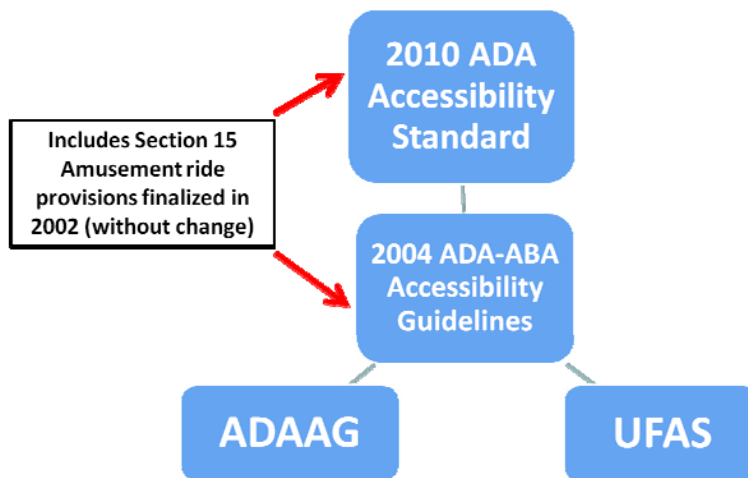
Guideline Development

- Recommendations from Recreation Access Advisory Committee (RAAC)
- Public comment and input from ride manufacturers, designers, operators, and patrons
- Final rule issued in 2002
- Provisions folded into the 2004 ADA-ABA Accessibility guidelines



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Updated Accessibility Guidelines and Standards



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New ADA Standards

DOJ's 2010 standards
(mandatory March 15, 2012)



Based on the Board's ADA-ABA Guidelines
(2004)

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Locating provisions

Table of Contents

ADA Application and Scoping

ADA Chapter 1: Application and Administration

ADA Chapter 2: Scoping Requirements

ABA Application and Scoping

ABA Chapter 1: Application and Administration

ABA Chapter 2: Scoping Requirements

Technical Chapters

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Chapter 4: Accessible Routes

Chapter 5: General Site and Building Elements

Chapter 6: Plumbing Elements and Facilities

Chapter 7: Communication Elements and Features

Chapter 8: Special Rooms, Spaces and Elements

Chapter 9: Built-In Elements

Chapter 10: Recreation Facilities

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Effective Date

- Start of physical construction or alteration on or after March 15, 2012

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Definitions

- *Amusement ride* – A system that moved persons through a fixed course within a defined area for the purpose of amusement
- *Amusement ride seat* – A seat that is built-in or mechanically fastened to an amusement ride intended to be occupied by one or more passengers.
- Unique attractions

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Rides not addressed

- Rides without seats
- Rides designed for small children
- Rides controlled by the rider
- Mobile and portable rides

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Rides without seats



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Rides designed for small children



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Rides controlled by the rider



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Other requirements

- Accessible route
- Accessible load/unload areas



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Mobile and portable rides

- Set up for short periods of time
- Regularly assembled and disassembled
- Covered entities required to provide general nondiscrimination opportunities to individuals with disabilities
- Required to be on an accessible route



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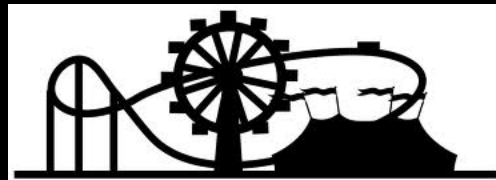
Alterations to Existing Rides

- Accessible route to load or unload areas of ALL altered rides
- No changes required to the ride itself unless the **structural or operational characteristics of the ride are altered to the extent that the amusement ride's performance differs from that specified by the manufacturer**

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Existing rides and facilities



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Requirements for Existing ADA Facilities

- **Title II — Program accessibility**
- **Title III — Readily achievable barrier removal**

For more information, contact DOJ @ 800 514-0301

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Safe Harbor – Existing Facilities

- **Elements that comply with 1991 Standards do not need to be modified to meet the 2010 Standards unless those elements are altered on or after March 15, 2012.**

Safe Harbor does not apply to elements in existing facilities that were not subject to specific requirements in the 1991 Standards

For more information, contact DOJ @ 800 514-0301

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Elements in 2010 Standards Not Subject to Safe Harbor

- | | |
|-----------------------------------------------|-------------------------------------------------|
| (A) Residential facilities and dwelling units | (I) Saunas and steam rooms |
| (B) Amusement rides | (J) Swimming pools, wading pools, and spas |
| (C) Recreational boating facilities | (K) Shooting facilities with firing positions, |
| (D) Exercise machines and equipment | (L) Miscellaneous. |
| (E) Fishing piers and platforms | (1) Team or player seating |
| (F) Golf facilities | (2) Accessible route to bowling lanes |
| (G) Miniature golf facilities | (3) Accessible route in court sports facilities |
| (H) Play areas | |

For more information, contact DOJ @ 800 514-0301

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Tax Incentives for Improving Accessibility

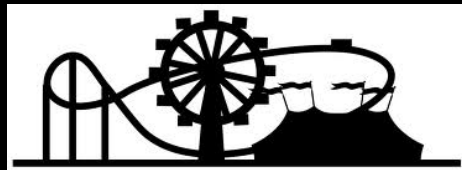


- Section 44 of IRS Code
- Tax credit - maximum credit \$5,000
- Tax deduction – maximum \$15,000

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Amusement Ride Scoping



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Access Options

- One of the following per ride:
- Wheelchair space OR
- Ride seat designed for transfer OR
- Use of a transfer device
- YOUR CHOICE



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Accessible routes

Serving
EACH ride

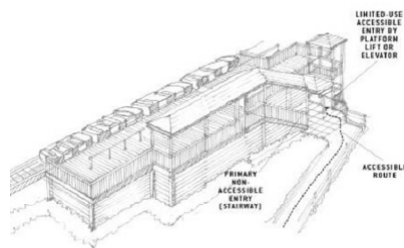


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Accessible routes

- If structurally or operationally infeasible -
 - 1:8 max slope in load/unload or on ride
 - handrails not required
- LULA's permitted
- Maneuvering space



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Signage

- At the entrance of the queue/waiting line for each accessible ride
- Identify the type of access provided (e.g., rides with wheelchair spaces or transfer rides).
- Where the route to the accessible load area is different for persons with disabilities than for other riders, signage must indicate the location of the accessible load area

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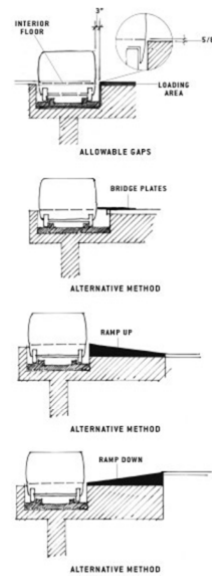
Amusement Rides with Wheelchair Spaces



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Rides with wheelchair spaces

- Approach
- Load/unload areas
- Floor or ground surface
- Gaps



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Rides with wheelchair spaces

- Width/length
- Side entry

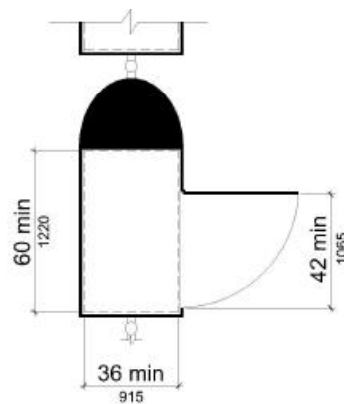


Fig. A9
Wheelchair Spaces - Side Entry

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Rides with wheelchair spaces

- **Protrusions**

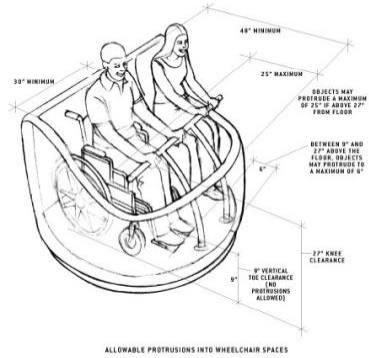
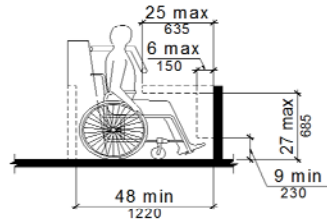
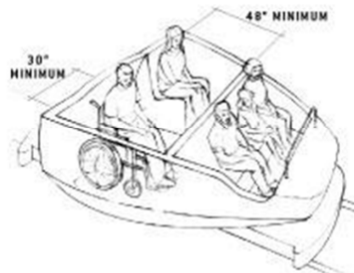


Fig. 58
Protrusions in Wheelchair Spaces

Rides with wheelchair spaces

- Companion seats – interior width > 53"
- Shoulder to shoulder



WHEELCHAIR SPACE WITH COMPANION SEATING
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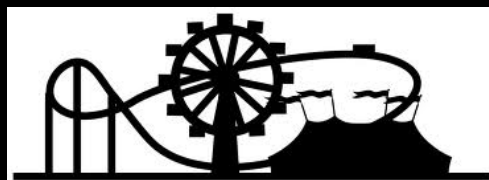
Rides with wheelchair spaces



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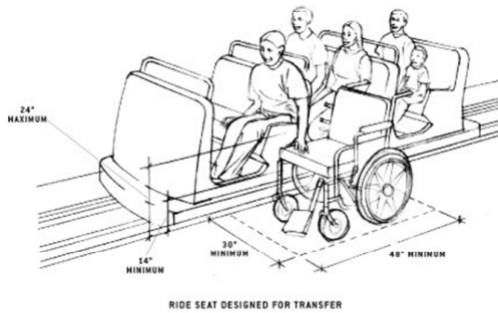
Ride seats designed for transfer



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Ride seats designed for transfer

- One transfer to ride seat
- Clear floor or ground space



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Ride seats designed for transfer

- Transfer entry
- Wheelchair storage space



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Transfer practice vehicle or seat



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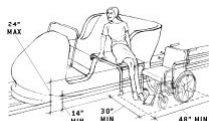
Other options



TRANSFER DEVICE: PORTABLE TIER



TRANSFER DEVICE: FIXED TIER

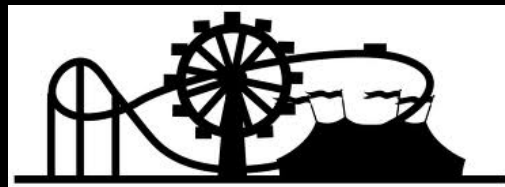


TRANSFER DEVICE: PORTABLE BENCH

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Use of a Transfer Device



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Transfer devices for use with amusement rides

- Clear floor or ground space
- Transfer height
- Wheelchair storage space

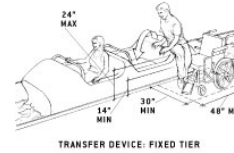
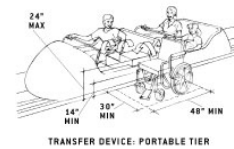


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Transfer devices



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Transfer devices



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Transfer Devices



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Wheelchair storage space

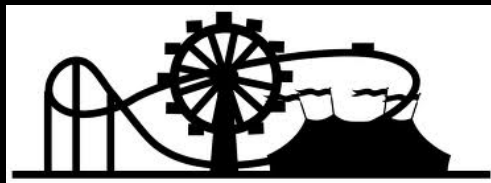
- A 30" X 48" space in or adjacent to load/unload platform
- May not overlap any required means of egress or accessible route



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Transfer Research



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Transfer Research



Study: The Impact of Transfer Setup on the Performance of Independent Wheelchair Transfers

120 Subjects capable of independent transfer

Variety of configurations tested – including distance from seat

http://herl.pitt.edu/ab/transfer_assessment_report.html

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Transfer Research



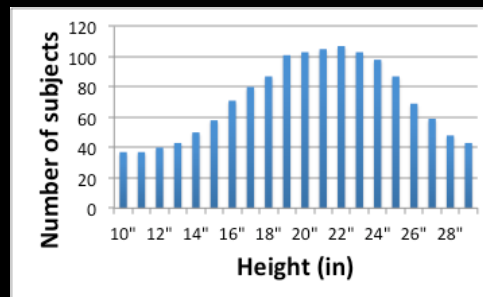
Height adjusted and spacers added at floor level

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Transfer Research

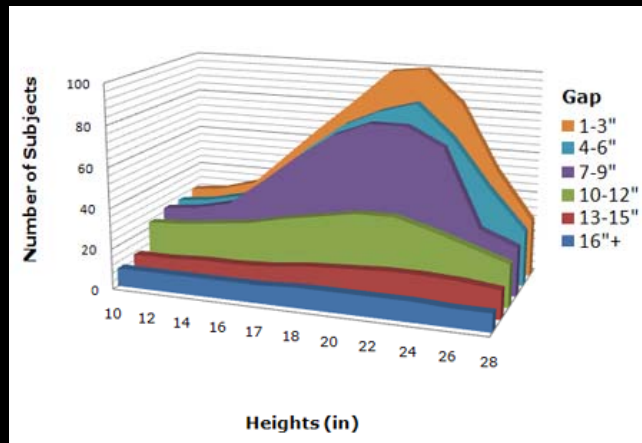
- 92% of users could transfer to a surface at a height similar to the median WMD seat to floor height of the sample (22 in)
- 43% could transfer to a surface 14" high and 85% could transfer to a surface 24" high with respect to floor when no gaps or obstacles were present.



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Transfer Research



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Transfer Research

Other issues -

- Handholds and grab bars
- Maneuvering space
- Transfer step height

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Other facility provisions

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CHAPTER 10

Recreation Facilities:

- amusement rides
- recreational boating facilities
- exercise machines
- fishing piers and platforms
- golf facilities
- miniature golf facilities
- play areas
- swimming pools, wading pools, and spas



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Surfaces

must be: firm, stable, “slip-resistant”

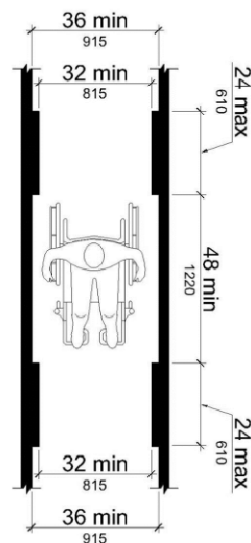


Loose materials generally not compliant
(unless properly treated) swimming pool lift
photo

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Accessible Routes

- Maximum running slope
- Cross slope
- Changes in level
- Minimum width



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Parking

Clarifications/ revisions:

- **Exempt:** parking for buses, trucks, delivery and law enforcement vehicles, impound
- **Marking of access aisles**
- **Sign height (60" min.)**
- **Van spaces:** increased scoping (1:6 instead of 1:8)
- **Angled vans spaces (aisle on passenger side)**



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Drinking Fountains

Where provided, 2 units required (wheelchair & standing access)

- **alternative:** single “hi-lo” unit
- **multiple installations:** 50% of each type



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Visual Signs

- “conventional form”
- character proportion/spacing
- character height based on viewing distance
- location (40” min. height)
- stroke thickness
- line spacing
- finish & contrast



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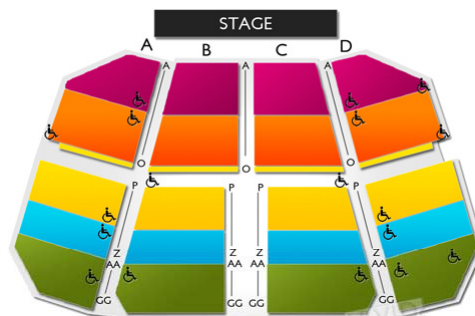
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Assembly Areas

Wheelchair Spaces

lower scoping for assembly areas with more than 500 seats:

- 501 – 5,000 seats: 1 space/ every 150 seats (instead of 1%)
- > 5,000: 0.5% scoping



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Assistive Listening Systems

Required where:

- audible communication = integral to use of the space and
- audio amplification
- Courtrooms



Not triggered by fixed seating or occupant load
New technical criteria (sound pressure level, signal-to-noise ratio, peak clipping level)

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Leisure rivers

- One means of access
- Pool lift, sloped entry, or transfer system

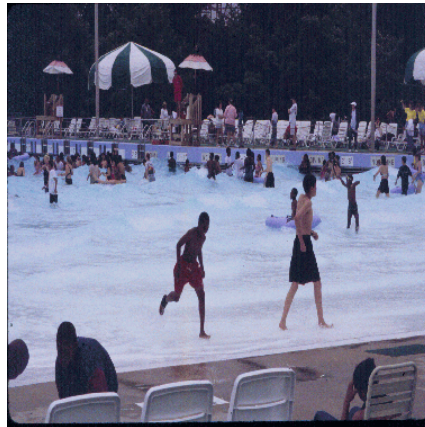


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Wave action pools

- One means of access
- Pool lift, sloped entry, or transfer system
- Clear width of handrails on slope entry does not apply



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Water slides

- Access not required to the top of the water slide
- Accessible route required to edge of catch pool



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Water Play Components



**Ground level access
and transfer access to
elevated play
components required**



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Dining Surfaces (226)

- **Access to at least 5%, not fewer than 1**
- **Knee clearance required**
- **Tops = 28 inches minimum – 34 inches maximum**



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Sales & Service Counters (227 and 904.4)

227 Scoping

- Counters – 1 of each type

904.4 Technical

- 36 inches maximum
- Accessible part same depth
- Parallel or forward approach
- No alternatives
- Exception for alterations
- Security glazing – voice communication



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Where to direct questions



U.S. Department of Justice

- Implementing regulation and additional requirements
- Requirements for existing facilities – title II & III

(800) 514-0301 (voice)

(800) 514-0383 (TTY)

www.ada.gov



U.S. Access Board

- 2010 Accessibility Standards for new construction and alterations

(800) 872-2253 (voice)

(800) 993-2822 (TTY)

(202) 272-0081 (FAX)

ta@access-board.gov

www.access-board.gov

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Questions?

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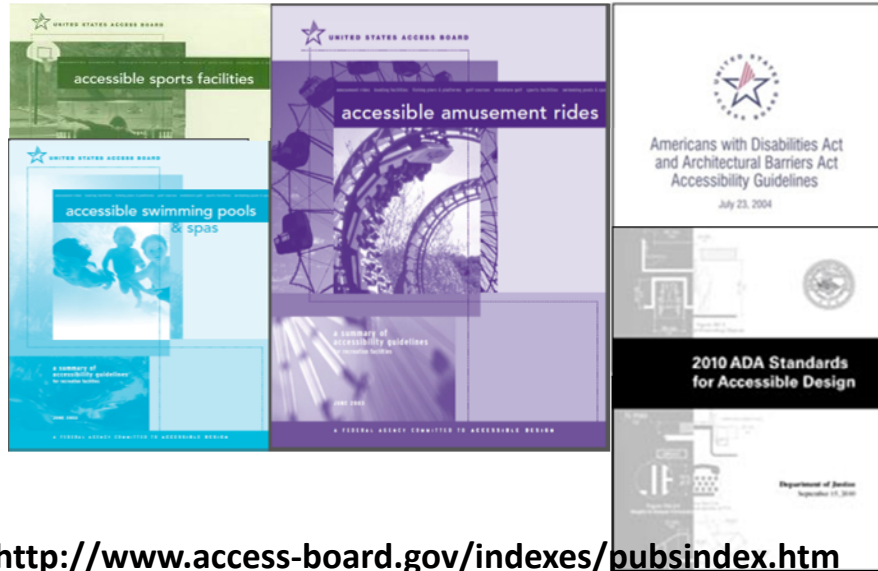
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Technical Assistance Material



**Thank you for participating
in today's webinar**



**Next scheduled session:
"Accessible Means of Egress"
February 7, 2012**

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