



**Federal Aviation
Administration**

Airport Design

Update to Advisory Circular 150/5300-13A

Presented to: Aviation Industry Representatives

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Work Group – 150/5300-13A

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Principal Changes

- **Taxiway Design & Airfield Safety.**
- **Taxiway Design Group (TDG) Concept for Fillet Design.**
- **Practical Examples on Declared Distances.**
- **Runway Design Code (RDC).**
- **Guidance for Intersecting and non-intersecting runway geometry.**
- **Wind Rose via Airport GIS tool.**
- **Aircraft Data Base.**
- **Consolidation of numerous runway design tables to one standard design matrix – Table 3-5 (a,b,c ...).**
- **Runway Protection Zone (RPZ) Language.**



New Document

- **New PDF Format – searchable with electronic bookmarks and hyperlinks**
- **Improved and consolidated tables**
- **New and Improved figures**
- **Pulled Appendices into Chapters**
- **Revised and organized Chapters**



Chapters – New versus Old

- Chapter 1. Introduction
- Chapter 2. Design Process
- Chapter 3. Runway Design
- Chapter 4. Taxiway & Taxilane Design
- Chapter 5. Aprons
- Chapter 6. Navigation Aids & On-Airport ATC Facilities
- Chapter 7. Airfield Bridges & Tunnels
- Chapter 1. Regulatory Req. and Definition of Terms
- Chapter 2. Airport Geometry
- Chapter 3. Runway Design
- Chapter 4. Taxiway & Taxilane Design
- Chapter 5. Surface Gradient and Line of Sight
- Chapter 6. Site Req. for Navaid and ATC Facilities
- Chapter 7. Runway and Taxiway Bridges
- Chapter 8. The Effects and Treatment of Jet Blast



Appendices

- **Appendix 1. Aircraft Characteristics**
- **Appendix 2. Wind Analysis**
- **Appendix 3. The Effect & Treatment of Jet Blast**
- **Appendix 4. End-Around Taxiway (EAT) Screens**
- **Appendix 5. General Aviation Aprons & Hangars**
- **Appendix 6. Compass Calibration Pad**
- **Appendix 7. Acronyms**



Appendices ? – Moved / Shuffled / Removed

OLD

- Appendix 1 – Wind Analysis
- Appendix 2 – Runway End Siting Req.

- Appendix 3 – Airport Reference Point
- Appendix 4 – Compass Calibrated Pad
- Appendix 5 – Small Airports & GA Hangars
- Appendix 6 & 7
- Appendix 8 – Runway Design Rationale
- Appendix 9 – Taxiway and Taxilane Design Rationale
- Appendix 10 – Taxiway Fillet Design
- Appendix 11 – Computer Program
- Appendix 12 & 13 – Airplane Data & ARC

- Appendix 14 – Declared Distances
- Appendix 15 – Transfer of Electronic Data

New

- Appendix 2
- Chapter 3

- Chapter 2
- Appendix 6
- Appendix 5

- Cancelled by AC 150/5070-6
- Chapter 3
- Chapter 4

- Chapter 4
- Removed
- Appendix 1

- Chapter 3
- Removed



Appendices - Continue

- **Appendix 16 – New Instrument Approach Procedures**
 - **Appendix 17 – Minimum Distances Between Certain Airport Features and Any On-Airport Agriculture Crops**
- **Chapter 3**
 - **Chapter 3**



Milestones

- **Internal coordination in progress**
- **Federal Register**
- **Industry Review Period (60 days)**
- **Publish 5300-13A by September 30, 2012**



Questions

