



Advisory Circular

Subject: Airfield Pavement Surface Evaluation
and Rating Manuals

Date: DRAFT

AC No: 150/5320-17A

Initiated By: AAS-100

1 1 **WHAT IS THE PURPOSE OF THIS ADVISORY CIRCULAR (AC)?**

2 1.1 This Advisory Circular (AC) provides limited guidance on understanding and rating the
3 surface condition of flexible (asphalt) and rigid (concrete) airfield pavements.
4 Appendices 1 and 2 of this AC include the Asphalt and Concrete Airfield Pavement
5 Surface Evaluation and Rating Manuals (PASER Manuals). These manuals describe
6 types and causes of distress and provide a simple system to visually rate pavement
7 condition on a scale ranging from excellent to failed.

8 1.2 The rating system is modeled after the University of Wisconsin's Pavement Surface
9 Evaluation and Rating System (PASER). The rating manuals, found in Appendices 1
10 and 2, were produced for the FAA by Engineering Professional Development, College
11 of Engineering, University of Wisconsin–Madison. ASTM D5340, *Standard Test*
12 *Method for Airport Condition Index Surveys*, provides detailed guidance regarding
13 inspection of airfield pavements condition and development of Pavement Condition
14 Index (PCI) data.

15 2 **DOES THIS AC CANCEL ANY PRIOR ACS?**

16 This AC cancels AC 150/5320-17, *Airfield Pavement Surface Evaluation and Rating*
17 *Manuals*, dated July 12, 2004.

18 3 **TO WHOM DOES THIS AC APPLY?**

19 3.1 The manuals in Appendices 1 and 2 of this AC can help airport managers understand
20 the surface condition of airfield pavements. The FAA recommends the information and
21 procedures contained in the manuals for use by airport staff and consultants, directly or
22 in combination with additional testing and data collection, only when it is not possible
23 to complete a more detailed PCI survey as part of a more comprehensive pavement
24 maintenance management program.

25 3.2 The information in this AC is not intended to determine the need or timeliness for
26 pavement rehabilitation projects. These decisions should be made as a result of more
27 technical investigations that include a detailed pavement condition index (PCI) study, as
28 set forth in ASTM D 5340, *Standard Test Method for Airport Pavement Condition*
29 *Index Surveys*. ASTM D 5340 is the recommended method for pavement management
30 programs described in AC 150/5380-7, *Airport Pavement Management Program*.

31 3.3 The FAA recommends the PASER manuals' rating system as a source of information
32 for rating pavements under the airport safety data program. The manuals will help
33 provide a degree of uniformity to field observations made by individuals collecting data
34 for the Airport Master Record (FAA Form 5010). Information derived from the manuals
35 can be incorporated into the data element description for Surface Type/Condition (Data
36 Element 33 of the National Airspace System Resources database). Use of the PASER
37 manuals' rating system, however, is not a mandatory source of this information.

38 4 **WHAT IS THE PURPOSE OF THIS REVISION?**

39 This AC reissues the Asphalt and Concrete Airfield Pavement Surface Evaluation and
40 Rating Manuals (PASER Manuals) in Appendices 1 and 2. The manuals are unaltered.

41 5 **ARE THERE ANY RELATED DOCUMENTS?**

- 42 • AC 150/5380-7, *Airport Pavement Management Program*
- 43 • AC 150/5380-6, *Guidelines and Procedures for Maintenance of Airport Pavements*

44 6 **WHERE CAN I SEND COMMENTS OR SUGGESTIONS?**

45 Send comments or suggestions for improving this AC to:

46 Manager, Airport Engineering Division
47 Federal Aviation Administration
48 800 Independence Avenue SW
49 Washington DC 20591

50 7 **HOW CAN I GET THIS AND OTHER FAA PUBLICATIONS?**

51 You can view a list of all ACs at http://www.faa.gov/regulations_policies/.

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53 Director of Airport Safety and Standards