NOTICE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Air Traffic Organization Policy

N JO 7110.594

Effective Date:
September 4, 2012

Cancellation Date:
March 7, 2013

SUBJ: ASR-11 Minima

1. Purpose of This Notice. This notice amends Federal Aviation Administration (FAA) Order JO 7110.65, Paragraph 5-5-4, Minima. This change adds the applicable radar separation minima for an ASR-11 radar when using Monopulse Secondary Surveillance Radar (MSSR) in a terminal environment.

2. Audience. This notice applies to the following Air Traffic Organization (ATO) service units: Terminal, Mission Support, and System Operations.

3. Where Can I Find This Notice? This notice is available on the MyFAA employee Web site at https://employees.faa.gov/tools_resources/orders_notices/ and on the air traffic publications Web site at http://www.faa.gov/air_traffic/publications/.

4. Procedures. Amend paragraph 5-5-4 to read as follows:

5-5-4. MINIMA

Title through subparagraph a3, no change.

4. For single sensor ASR-11 MSSR Beacon, when less than 60 miles from the antenna – *3 miles.*

NOTE−
Wake turbulence procedures specify increased separation minima required for certain classes of aircraft because of the possible effects of wake turbulence.

No further changes to paragraph.

5. Distribution. This notice is distributed to the following ATO service units: Terminal, Mission Support, and System Operations; the Office of ATO Safety and Technical Training; the Air Traffic Safety Oversight Service; and the Mike Monroney Aeronautical Center.

6. Background. At the request of Terminal Operations, Headquarters, FAA Flight Systems Laboratory conducted an analytical study to re-examine the separation standards that are applicable to terminal use of the ASR-11. This study addressed several paragraphs in FAA Order JO 7110.65, Chapter 5, Section 5, Radar Separation, including target separation, target resolution, vertical application, rules on the use of passing and diverging, the minimum separation from obstructions, minimum separation from adjacent airspace, and, if applicable, edge-of-scope separation. The performance of the ASR-11 with MSSR was compared against the performance of similar systems, specifically ASR-9 with Mode S, that are currently allowed to be used for these operations. The study concluded that performance of the ASR-11 (MSSR) is equivalent to the performance of an ASR-9 with Mode S. Therefore, allowing the use of the terminal separation standard minima of 3 NM for properly performing transponder-equipped aircraft at ranges from the radar of up to 60 NM from the sensor

antenna should incur no greater risk or hazard than the current separation standard minima. There are currently 68 ASR-11 radar systems installed in the National Airspace System (NAS). Increasing the usability of the existing installed infrastructure provided by the ASR-11 will increase the efficiency of the NAS, with no impact on overall safety.

Elizabeth L. Ray
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August 1, 2012
Date Signed