U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
Aircraft Certification Service Policy

ORDER IR 8110.102

Effective Date:
09/14/2007

SUBJ: Implementing Risk Based Resource Targeting (RBRT)

1. Purpose of This Order. This order introduces risk based resource targeting (RBRT) and explains how Federal Aviation Administration (FAA) management will implement it.

2. Audience. We've written this order for Aircraft Certification Service (AIR) employees responsible for the certification of aviation products or services, or both, as well as overseeing FAA designees for those aviation products or services, or both.

3. Where Can I Find This Order. You can find this order on the FAA website: http://rgl.faa.gov.

4. RBRT's Design. FAA aviation safety (AVS) services/offices are required to develop and implement a common AVS safety management system (AVSSMS). AVSSMS is based on risk management to ensure the most effective safety oversight of applicants and certificate holders. RBRT is part of the AIR contribution to AVSSMS, and is designed to:

a. Identify risk in a specific AIR business process, and

b. Provide management options to mitigate that risk through targeted application of resources.

The RBRT process employs a standardized, data driven, risk based methodology to assist AIR in establishing work priorities and allocating resources.

5. Where and How We Use RBRT. The AIR business processes initially subject to RBRT are:

- Type certification, including changes, amendments, and supplements.
- Production certification, including production certificates and changes to production limitation record.
- Technical standard order authorization.
- Parts manufacturer approval.
- Designee management.
- Certificate management, and
- Policy and guidance development.

a. RBRT is an automated safety management assessment tool linked to a national server. When using RBRT, AIR technical employees:

(1) Determine risk by assessing probability and severity.

(2) Review the identified risk management options.

(3) Communicate resource allocation recommendations to management, and

(4) Document the results.

b. RBRT is tentatively scheduled to be implemented for domestic supplemental type certificate (STC) projects by Dec 07. Implementation of RBRT in other processes will follow.

6. RBRT Training and Support.

a. Before we implement RBRT, we will provide web-based training. On-site briefings with demonstrations may also be provided.

b. After training, we will issue a formal implementation notice requiring use of RBRT in the business processes listed in paragraph **5**.

c. FAA Office of Quality, Integration, and Executive Services (AQS) software specialists will support the RBRT web-based assessment tool.

7. Distribution. Distribute this order to the following FAA offices: AIR branch levels of Washington headquarters and all aircraft certification directorates, including all aircraft certification offices; manufacturing inspection offices, manufacturing inspection district offices, manufacturing inspection certificate management offices, and manufacturing inspection satellite offices, directorate standards staffs, the Aircraft Certification Branch at the FAA Academy, and the Brussels International Policy Branch.

8. Authority to Change This Order. The Delegation and Airworthiness Programs Branch (AIR-140) is responsible for issuing, revising, or canceling the material in this order. AIR-140 will make all changes required to carry out FAA responsibility for implementing RBRT.

9. Suggestions for Improvement. If you find deficiencies, need clarification, or want to suggest improvements to this order, send a copy of FAA Form 1320-19, Directive Feedback Information (written or electronically) to the Aircraft Certification Service, Planning and Financial Resources Management Branch, AIR-530, Attention: Directives Management Officer. You may also send a copy to the Delegation and Airworthiness Programs Branch, AIR-140, Attention: Comments to Order 8110.102. A copy of the form is on the last page of this order for your convenience, or you may download it electronically from the FAA website. If you urgently need an interpretation, contact AIR-140 at (405) 954-4103. Always use Form 1320-19 to follow up each verbal conversation.

10. Records Management. Refer to Orders 0000.1, FAA Standard Subject Classification System; 1350.14, Records Management, and 1350.15, Records Organization, Transfer, and Destruction

Standards; or your office Records Management Officer or Directives Management Officer for guidance regarding retention or disposition of records.

John J. Hickey
Director, Aircraft Certification Service

Appendix A. Related Publications

The latest editions of the following publications are the primary references for preparing and maintaining this order. Use latest versions of order listed below:

- **FAA Order VS 8000.1**, Safety Management System Doctrine. http://www.faa.gov/regulations_policies/

- **FAA Order 8040.4**, Safety Risk Management. http://www.faa.gov/regulations_policies/

U.S. Department
of Transportation
Federal Aviation Administration

Directive Feedback Information

Please submit any written comments or recommendations for improving this directive, or suggest new items or subjects to be added to it. Also, if you find an error, please tell us about it.

Subject: Order 8110.102 Implementation of Risk-Based Resource Targeting

To: AIR-530 DMO

(Please check all appropriate line items)

☐ An error (procedural or typographical has been noted in paragraph _____on page _____.

☐ Recommend paragraph _____ on page _____ be changed as follows:
(attach separate sheet if necessary)

☐ In a future change to this directive, please include coverage on the following subject

(briefly describe what you want added):

☐ Other comments:

☐ I would like to discuss the above. Please contact me.

Submitted by:_____ Date:_____

FTS Telephone Number:_____ Routing Symbol:_____

FAA Form 1320-19 (8-89)