FEDERAL AVIATION AGENCY
FLIGHT STANDARDS SERVICE
Washington 25, D. C.

January 29, 1962

CIVIL AIR REGULATIONS DRAFT RELEASE NO. 62-3

SUBJECT: Air Transportation of Magnetic Materials

The Flight Standards Service of the Federal Aviation Agency has under consideration amendments to Part 49 of the Civil Air Regulations to require the shippers of magnetic materials to clearly mark packages containing magnetic materials and where possible install the keeper bar on permanent magnets. The reasons therefor are set forth in the explanatory statement of the attached proposal which is being published in the Federal Register as a notice of proposed rule making.

The Flight Standards Service desires that all persons who will be affected by the requirements of this proposal be fully informed as to its effect upon them and is therefore circulating copies in order to afford interested persons ample opportunity to submit comments as they may desire.

Because of the large number of comments which we anticipate receiving in response to this draft release, we will be unable to acknowledge receipt of each reply. However, you may be assured that all comments will be given careful consideration.

It should be noted that comments should be submitted in duplicate to the Docket Section of the Federal Aviation Agency, and in order to insure consideration must be received on or before April 9, 1962.

George C. Pratt

Director,
Flight Standards Service

FEDERAL AVIATION AGENCY
FLIGHT STANDARDS SERVICE

[14 CFR Part 49]
[Regulatory Docket No. 1049; Draft Release No. 62–3]

NOTICE OF PROPOSED RULE MAKING

Magnetic Materials

Pursuant to the authority delegated to me by the Administrator (14 CFR 405.27), notice is hereby given that there is under consideration a proposal to amend Part 49 of the Civil Air Regulations as hereinafter set forth.

Interested persons may participate in the making of the proposed rules by submitting such written data, views, or arguments as they may desire. Communications should be submitted in duplicate to the Docket Section of the Federal Aviation Agency, Room C–226, 1711 New York Avenue, N.W., Washington 25, D.C. All communications received on or before April 9, 1962, will be considered by the Administrator before taking action on the proposed rules. The proposal contained in this notice may be changed in the light of comments received. All comments submitted will be available in the Docket Section for examination by interested persons when the prescribed date for return of comments has expired.

Explosives and other dangerous articles defined by Part 49 of the Civil Air Regulations do not include magnetic materials. Air shipments of magnets and magnetic devices can adversely influence the accuracy of magnetic compasses and devices unless they are properly packed and kept at a safe distance from the aircraft's compass. In order to safeguard the navigation of aircraft, it is necessary to require the shippers of magnetic materials to clearly mark packages containing magnetic materials and where possible install the keeper bar on permanent magnets. The identification marking of such packages will alert operators of aircraft to arrange their stowage at a location where they will not interfere with the navigational equipment of the aircraft.

In consideration of the foregoing, it is proposed to amend Part 49 of the Civil Air Regulations as follows:

1. By amending § 49.1(a) by adding between the words "articles" and "shall" the phrase ", or any other articles specifically regulated by the rules of this part,".

2. By adding a new § 49.16 to read as follows:

49.16 *Packing and marking requirements for magnetic materials.* No shipper shall offer magnetic materials for shipment by air unless:

(a) The outside package has been plainly marked "Magnetic Materials";

(b) Magnets or magnetic devices such as magnetrons and light meters have been packed so that the polarities of the individual units oppose ane another; and

(c) Permanent magnets, where possible, have the keeper bar installed. No other certification, labeling, or quantity limitations are prescribed for the shipment of magnetic materials by the provisions of this part.

3. By amending § 49.21 by adding a new paragraph (d) to read as follows:

49.21 *Cargo location.* * * *

(d) Magnetic materials shall not be loaded on the aircraft in the vicinity of the magnetic compasses or compass master units which are a part of the instrument equipment of the aircraft so as to affect their operation. If it is not possible to meet this requirement a special aircraft swing and compass calibration shall be made.

These amendments are proposed under the authority of sections 313(a), 601, 604, 902 of the Federal Aviation Act of 1958, (72 Stat. 752, 775, 778, 784; 49 U.S.C. 1354(a), 1421, 1424, 1472).

George T. Pugh

Director,
Flight Standards Service

Issued in Washington, D.C., on January 29, 1962.