CIVIL AIR REGULATIONS

PART 29 PHYSICAL STANDARDS FOR AIRMEN

As amended to October 1, 1949

CIVIL AERONAUTICS BOARD



WASHINGTON, D. C.

Sec.

29 1 Physical standards

29 2 First class.

29.3 Second class.

29 4 Third class.

29.5 Waiver of physical standards.

AUTHORITY: §§ 29.1 to 29.5 issued under sec. 205 (a), 52 Stat. 984; 49 U. S. C. 425 (a). Interpret or apply secs. 601, 602, 52 Stat. 1007, 1008; 49 U. S. C. 551, 552.

Source: §§ 29.1 to 29.5 contained in Amendment 29-0, Civil Air Regulations, 7 F. R. 3925, except as noted following sections affected.

§ 29.1 Physical standards. The physical standards for airmen shall be as set forth in §§ 29.2-29.4.

§ 29.2 First class—(a) Eye. Appli-

cant shall have:

- (1) A visual acuity of at least 20/20 in each eye separately without correction: Provided, That if the vision in either or both eyes is not poorer than 20/50 and is brought up to 20/20 or better in each such eye by glasses, the applicant may be qualified upon condition that correcting glasses be worn while exercising the privileges of his airman certificate.
- (2) An average depth perception of 30 millimeters or less on a prescribed depth perception apparatus with or without correction: Provided, That if the depth perception is greater than 30 millimeters without correction, and is corrected to at least 30 millimeters average by glasses. the applicant may be qualified upon condition that such glasses be worn while exercising the privileges of his airman certificate.
- (3) No diplopia in any meridian within 35 degrees from the point of visual fixation.
- (4) Not more than one diopter of hyperphoria in either eye.
- (5) Not more than 10 diopters of esophoria.
- (6) Not more than 5 diopters of exophoria.
- (7) An abduction of not less than 3 diopters nor more than 15 diopters.
- (8) An adduction of 6 or more diopters. (9) An accommodation of at least V=1.00 at 18 inches with each eye separately without the use of correcting
 - (10) Normal color vision.

glasses.

- (11) Normal visual fields.
- (12) No acute or chronic pathological condition of either eye or adenexae, which may interfere with its proper function, may progress to that degree, or may be aggravated by flying.
- (b) Ear, nose, throat, and equilibrium. (1) Applicant shall be able to hear the

whispered voice at 8 feet with each ear separately; shall have no acute or chronic disease of the middle or internal ear; no disease of the mastoid; no unhealed (unclosed) perforations of the ear drum: no disease or malformation of the nose or throat which may interfere with or be aggravated by flying; and no disturbance of equilibrium.

(2) If the hearing acuity for the whispered voice is less than 20 feet in either ear the applicant shall possess a hearing acuity of at least 50% of normal in each ear throughout the effective speech and radio range as demonstrated by a standard audiometer.

(c) General physical condition. (1) Applicant shall have no organic or functional disease or structural defect or limitation which would interfere with the safe piloting of aircraft, or other duties of his airman certificate.

(2) Reclining blood pressure shall not exceed 135 mm. systolic, nor 90 mm., diastolic.

(3) Applicants 40 years of age or over shall demonstrate a degree of circulatory efficiency compatible with the safe operation of aircraft at high altitudes.

(d) Nervous system. Applicant shall have no disease of the mental or nervous system and no abnormality of the personality.

§ 29.3 Second class-(a) Eye. Applicant shall have:

(1) A visual acuity of at least 20/20 In each eye separately without correction: Provided, That if the vision in either or both eyes is not poorer than 20/50 and is brought up to 20/20 or better in each such eye by glasses, the applicant may be qualified upon condition that correcting glasses be worn while exercising the privileges of his airman certificate.

(2) An average depth perception of 30 millimeters or less on a prescribed depth perception apparatus, with or without correction: Provided, That if the depth perception is greater than 30 millimeters without correction, and is corrected to at least 30 millimeters average by glasses, the applicant may be qualified upon condition that such glasses be worn while exercising the privileges of his airman certificate.

- (3) No diplopia in any meridian within 35 degrees from the point of visual fixation.
- (4) Not more than one diopter of hyperphoria.
- (5) Properly balanced eye muscles with an abduction of 3 dippters or more, and adduction of six diopters or more.
 - (6) Sufficient accommodation to pass

a test prescribed by the Administrator based primarily upon ability to read official aeronautical maps.

(7) Normal fields of vision; and

(8) No pathology of the eye.

(b) Ear, nose, throat, and equilibrium. Applicant shall be able to hear the whispered voice at 8 feet with each ear separately; shall have no acute or chronic disease of the middle or internal ear: no disease of the mastoid; no unhealed (unclosed) perforations of the ear drum: no disease or malformation of the nose or throat which may interfere with or be aggravated by flying; and no disturbance of equilibrium.

(c) General physical condition. Applicant shall have no organic or functional disease or structural defect or limitation which would interfere with the safe piloting of aircraft, or other duties of his air-

man certificate.

(d) Nervous system. Applicant shall have no disease of the mental or nervous system and no abnormality of the personality.

§ 29.4 Third class-(a) Eye. Applicant shall have:

(1) A visual acuity of at least 20/50 in each eye separately without correction: Provided. That if the vision in either or both eyes is poorer than 20/50 and is brought up to 20/30 or better in each such eye by glasses, the applicant may be qualified upon condition that such glasses be worn while exercising the privfleges of his airman certificate.

(2) No serious pathology of the eye. (b) Ear, nose, throat, and equilibrium. Applicant shall be able to hear the whispered voice at 3 feet; shall have no acute or chronic disease of the internal ear, no disease or malformation of the nose or throat which may interfere with or be aggravated by flying, and no disturbance

in equilibrium.

(c) General physical condition. No applicant shall have an organic or functional disease which would interfere with the safe piloting of aircraft, or other duties of his airman certificate. An⊽ structural defect or limitation shall be noted on the medical certificate.

(d) Nervous system. Applicant shall have no disease of the mental or nervous system and no abnormality of the per-

sonality.

[Amdt. 29-0, 7 F. R. 3925, as amended by Amdt. 29-2, 9 F. R. 11675, Amdt. 29-3, 10 F. R. 37951

§ 29.5 Waiver of physical standards. An airman certificate shall be issued to an applicant, other than an applicant

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for the original issuance of an air-line transport pilot certificate, who does not meet the appropriate physical standards if his aeronautical experience, ability, and judgment compensate for his physical deficiency and he meets all other re-

quirements for the issuance of said certificate. Any certificate issued under these circumstances shall state that the applicant does not meet the appropriate physical standards prescribed herein but that his physical deficiencies were found to be compensated by his demonstrated aeronautical experience, ability, and judgment. Such certificate may be limited as to type of operation, type of aircraft, or period of reexamination.

[Amdt. 29-1, 8 F. R. 16888]

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