SECTION 11

Radio Aids to Air Navigation—Standards of Field Strength and Interference Ratios

1. Whereas the Inter-American Radio Conference has carefully considered the various resolutions of the September 1937 Inter-American Technical and in particular resolutions XIV, XVII ered the various resolutions of the September are resolutions XIV, XVII and Aviation Conference of Lima, and in particular resolutions XIV, XVIII and XVIII which were referred to this Conference and

2. Considering

2. Considering

(a) the great importance of radio aids to air navigation, the phenomenal

(a) the great importance and the further expansion which will certain the great importance of radio and the further expansion which will certainly growth of air traffic and the further expansion which will certainly take place in the future;

(b) the exacting requirements of such radio aids to air navigation with the exacting requirements of such facted by multiple path trans-respect to stability of emissions as affected by multiple path transrespect to stability of emissions as the greatest extent by selection of mission which can be minimized to the greatest extent by selection of frequencies least subject to sky wave effects; (c) the extremely limited range of frequencies which possesses the necessary that the contract of the extremely limited range of frequencies which possesses the necessary that the contract of the extremely limited range of frequencies which possesses the necessary that the contract of the extremely limited range of frequencies which possesses the necessary that the contract of the extremely limited range of frequencies which possesses the necessary that the contract of the extremely limited range of frequencies which possesses the necessary that the contract of the extremely limited range of frequencies which possesses the necessary that the contract of the extremely limited range of frequencies which possesses the necessary that the contract of the extremely limited range of the extremely lin the extremely limited range of the extremely limited range of t

the extremely inflitted range states as mentioned in (b) above; sary propagation characteristics as mentioned in (b) above; sary propagation that (d) the absolute dependence of aircraft in flight upon radio for naviga.

tional guidance and communication;

- (e) the vast number of aircraft throughout the world that now use, and the vast number of aircraft throughout of frequencies suitable for must continue to share the limited number of frequencies suitable for must continue to share therefore making the strictest economy. must continue to snare the influence making the strictest economy of use aids to air navigation, therefore making the strictest economy of use aids to air navigation, therefore many of use necessary in order that all may be accommodated with a minimum of interference;
- (f) the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which therefore seems desirable in order to facility the standardization which is the standardization of the sta the standardization which the co-ordination, and, as far as possible, standardization of equipment and operating procedure;

(g) that it is possible for a single ground station such for instance as that it is possible for a single give navigational guidance as the radio range beacon to simultaneously give navigational guidance to a practically unlimited number of aircraft;

(h) the grave responsibility of radio aids to air navigation for rendering the grave responsibility of fauto under certain circumstances, may be reliable service to aircraft which, under certain circumstances, may be reliable service to aircraft which, entirely dependent for their safety upon uninterrupted reception of satisfactory navigational signal; and

(i) the short period of time that has been available for engineering study the short period of time that has study since the September 1937 Inter-American Technical Aviation Conference at Lima;

3. The Inter-American Radio Conference resolves:

(a) That in accordance with the recommendations of the Lima Conven-That in accordance with the total the conference should prepare and tion the countries participating in this conference should prepare and tion the countries participating of the following tables which may be exchange not later than Julie 1, 1000 wing tables which may serve as of value in the drafting of the following tables which may serve as of value in the draining of the application of the engineering principles herein set forth.

Table I listing various types of radio aids to air navigation which have been approved for service operation;