Federal Aviation Administration, DOT

Pt. 65, App. A

- (a) Structure and Characteristics, Both Vertical and Horizontal.
- (b) Frontal Types.
- (c) Frontal Weather Flying.
- (15) Theory of Storm Systems:
- (a) Thunderstorms.
- (b) Tornadoes.
- (c) Hurricanes and Typhoons.
- (d) Microbursts.
- (e) Causes, Formation, and Dissipation.
- B. Weather, Analysis, and Forecasts
- (1) Observations:
- (a) Surface Observations.
- (i) Observations made by certified weather observer.
- (ii) Automated Weather Observations.
- (b) Terminal Forecasts.
- (c) Significant En route Reports and Forecasts
- (i) Pilot Reports.
- (ii) Area Forecasts.
- (iii) Sigmets, Airmets.
- (iv) Center Weather Advisories.
- (d) Weather Imagery.
- (i) Surface Analysis.
- (ii) Weather Depiction.
- (ii) Would' Deplotent.(iii) Significant Weather Prognosis.(iv) Winds and Temperature Aloft.
- (v) Tropopause Chart.
- (vi) Composite Moisture Stability Chart.
- (vii) Surface Weather Prognostic Chart. (viii) Radar Meteorology.
- (ix) Satellite Meteorology.
- (x) Other charts as applicable.
- (e) Meteorological Information Data Collection Systems.
- (2) Data Collection, Analysis, and Forecast Facilities.
- (3) Service Outlets Providing Aviation Weather Products.
- C. Weather Related Aircraft Hazards
- (1) Crosswinds and Gusts.
- (2) Contaminated Runways.
- (3) Restrictions to Surface Visibility.
- (4) Turbulence and Windshear.
- (5) Icing
- (6) Thunderstorms and Microburst.
- (7) Volcanic Ash.
- III. Navigation
 - A. Study of the Earth (1) Time reference and location (0 Lon-gitude, UTC).

 - (2) Definitions.
- (3) Projections.
- (4) Charts.
- B. Chart Reading, Application, and Use. C. National Airspace Plan.
- D. Navigation Systems.
- E. Airborne Navigation Instruments.
- F. Instrument Approach Procedures.
- (1) Transition Procedures.
- (2) Precision Approach Procedures.
- (3) Non-precision Approach Procedures.
- (4) Minimums and the relationship to weather
- G. Special Navigation and Operations.
- (1) North Atlantic.

- (3) Global Differences.
- IV. AIRCRAFT

(2) Pacific.

- A. Aircraft Flight Manual.
- B. Systems Overview.
- (1) Flight controls.
- (2) Hydraulics.
- (3) Electrical
- (4) Air Conditioning and Pressurization.
- (5) Ice and Rain protection.
- (6) Avionics, Communication, and Navigation
- (7) Pov Units. Powerplants and Auxiliary Power
- (8) Emergency and Abnormal Procedures.
- (9) Fuel Systems and Sources
- C. Minimum Equipment List/Configuration
- Deviation List (MEL/CDL) and Applications
- D. Performance.
- (1) Aircraft in general.
- (2) Principles of flight:
- (a) Group one aircraft.(b) Group two aircraft.
- (3) Aircraft Limitations.
- (4) Weight and Balance.
- (5) Flight instrument errors.
- (6) Aircraft performance:
- (a) Take-off performance.
- (b) En route performance.
- (c) Landing performance.
- V. Communications
- A. Regulatory requirements.
- B. Communication Protocol.
- C. Voice and Data Communications.
- D. Notice to Airmen (NOTAMS).

C. Airspace classification and route struc-

VII. Emergency and Abnormal Procedures A. Security measures on the ground.

mation on overdue or missing aircraft. E. Means of declaring an emergency.

F. Responsibility for declaring an emer-

(b) Generation and Evaluation of Alter-

G. Required reporting of an emergency.

H. NTSB reporting requirements. VIII. Practical Dispatch Applications

B. Security measures in the air.

C. FAA responsibility and services. D. Collection and dissemination of infor-

- E Aeronautical Publications.
- F. Abnormal Procedures.
- VI. Air Traffic Control
- A. Responsibilities.
- B. Facilities and Equipment.

D. Flight Plans. (1) Domestic.

(2) International.

E. Separation Minimums.

F. Priority Handling. G. Holding Procedures. H. Traffic Management.

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A. Human Factors.

(1) Decisionmaking: (a) Situation Assessment.