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Superseding AIR910B

Ozone in High Altitude Aircraft

RATIONALE

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## INTRODUCTION

Since airplanes are pressurized and air-conditioned with air obtained from outside the aircraft, ozone present in the outside air enters the cabin. Ozone in the cabin air may cause discomfort and health effects, and destroys many materials. The discomfort and ill effects depends on concentration, exposure time and on an individual's sensitivity to ozone. "Ozone discomfort" appeared frequently and among a large population on B-747SP flights between New York and Tokyo during the 1976-1977 season. These flights operated at high latitudes and altitudes where ozone concentrations are high. This occurrence prompted the FAA to introduce regulations to limit cabin-air ozone concentrations.

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