Air Radar System Designed to Prevent Crashes Is Demonstrated by the F.A.A

By RICHARD WITKIN cial to The New York Times

DENVER, Feb. 6-A new radar system that could have prevented several recent air tragedies, including the December crash near Washington in which 92 persons were killed, was given its initial public demonstration here today.

Federal officials refining the system in current tests said that they expected it would start be-ing put into regular operation by the year's end at a number of the 61 major airports for which it is tentatively designed. New York City's airports would ze near the top of the list, they

At the heart of the systtem

other Messages Considered
At the moment, the groundto-air message is a simple, undramatic: "Your altitude readout shows you at (so many thousand) feet." This cautious approach is attributable to the often acrimonious debate between pilot and controller groups, following the Trans. World Airlines crash near Washington, over the interpretation of traffic procedures and over the respective reresponsibilities of pilots and controllers for keeping planes at safe altitudes.

William M. Flener, an as
a well-ministration he said that Mr. Butterfield had been reconciled this. He said that Mr. Butterfield had been reconciled to leaving, and added:

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"He didn't want to go out the sounds a few the public some confiing a proach is another move to give the public some confiing the tweet that we are doing things."

The new radar system is not to be confused with the atia.

The new radar system is not to be computer was programed to anticipate when an approach is at saled on board all the nation's at sounds a loud "Whoop!"

This is a system in the cockpit the radar scope just above the plane's call sign. Again, the was informed, and he was informed, and he radioed back: "Roger, pulling in the area.

Soon, the F.A.A. Dinglet the area.

Soon, the F.A.A. plane, fly-when a plane is headed toward a hilliside or is making a danerously lo

ize a controller to radio: "Pull Stapleton International Airport up.

week.

Suspicions have been voiced that Mr. Butterfield scheduled tha Suspicions have been voiced that Mr. Butterfield scheduled pilot his altitude, at which the today's demonstration several pilot replied: "Roger, pulling weeks are as part of a good up."

controllers for keeping planes is headed toward a hilliside or at safe altitudes.

William M. Flener, an associate administrator of the federal Aviation Administration, acknowledged that merely reminding an endangered pilot what his current altitude was might fall far short of meeting tem operates in two types of

an emergency. He said that situation, both illustrated today more explicit messages were in a test flight by an F.A.A. Convair-580 turboprop that was would go so far as to authortower here.

Today's demonstration of the system came at a time when the aviation administration was being subjected to perhaps the heaviest criticism in its history because of its handling of safety issues.

The head of the agency, Alexander P. Butterfield, is understood to have been told by the White House that he should plan on leaving next month. A successor is expected to be nominated soon, perhaps next week.

Today's demonstration of the was the plane flew a landing approach toward the runway, its target was represented on the scope, and also its changing altitude and air speed.

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'Roger, Pulling Up'

Next, the plane headed south-west toward the highest peak in the area, Mount Evans, at 14,300 feet. The computer pro-gram for that geographical lo-