



National Transportation Safety Board

Washington, DC 20594

Safety Recommendation

Date: October 6, 2016

In reply refer to: A-16-30 and -31

Mr. Dennis A. Muilenburg
Chairman, President,
and Chief Executive Officer
The Boeing Company
100 North Riverside
Chicago, Illinois 60606

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant accidents in other modes of transportation—railroad, highway, marine, and pipeline. We determine the probable cause of the accidents and issue safety recommendations aimed at preventing future accidents. In addition, we carry out special studies concerning transportation safety and coordinate the resources of the federal government and other organizations to provide assistance to victims and their family members affected by major transportation disasters. We are providing the following information to urge Boeing to take action on the safety recommendations being issued in this letter.

On September 13, 2016, we adopted our report concerning the March 5, 2015, accident in which Delta Air Lines flight 1086, a Boeing MD-88, N909DL, crashed after it departed the left side of runway 13 during landing at LaGuardia Airport, New York, New York.¹ Additional information about this accident and the resulting recommendations may be found in the report of the investigation, which can be accessed at our [Aviation Information Resources](#) webpage under report number NTSB/AAR-16/02.

As a result of this investigation, we issued 14 new recommendations, including 10 to the Federal Aviation Administration, 1 to US operators of MD-80 series airplanes, 1 to The Port Authority of New York and New Jersey, and the following 2 recommendations to Boeing:²

¹ National Transportation Safety Board, *Runway Excursion During Landing, Delta Air Lines Flight 1086, Boeing MD-88, N909DL, New York, New York, March 5, 2015*, NTSB/AAR-16/02 (Washington, DC: National Transportation Safety Board, 2016).

² US operators of MD-80 series airplanes are Delta Air Lines, American Airlines, and Allegiant Air.

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Collaborate with the Federal Aviation Administration and US operators of MD-80 series airplanes to (1) conduct a study to examine reverse thrust engine pressure ratio (EPR)-related operational data, procedures, and training and (2) identify industry-wide best practices that have been shown to be effective in reliably preventing EPR exceedances to mitigate the risks associated with rudder blanking

A-16-31

Explore the possibility of incorporating an alert in MD-80 series airplanes to aid pilots in preventing engine pressure ratio exceedances.

Chairman HART, Vice Chairman DINH-ZARR, and Members SUMWALT and WEENER concurred in these recommendations.

The NTSB is vitally interested in these recommendations because they are designed to prevent accidents and save lives. We would appreciate receiving a response from you within 90 days detailing the actions you have taken or intend to take to implement them. When replying, please refer to the safety recommendation by number. We encourage you to submit your response electronically to correspondence@ntsb.gov. If it exceeds 10 megabytes, including attachments, please e-mail us at the same address for instructions. Please do not submit both an electronic copy and a hard copy of the same response.

[Original Signed]

By: Christopher A. Hart,
Chairman