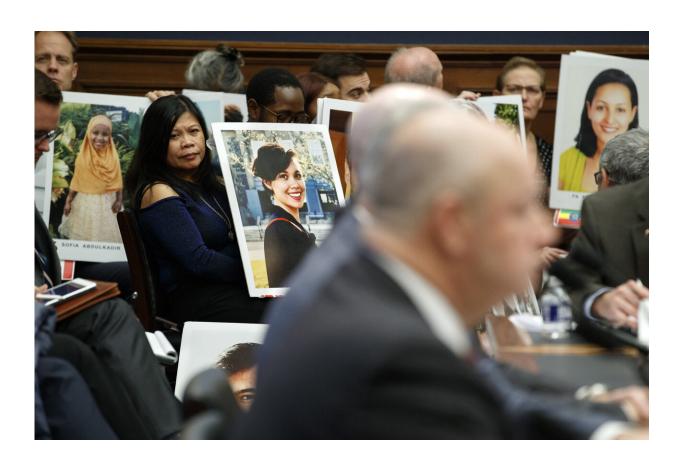


## FAA analysis predicted many more Max crashes without a fix

December 12 2019, by David Koenig



Family members of people who died in crashes of the Boeing 737 MAX hold photographs of their lost loved ones as FAA Administrator Stephen Dickson testifies during a House Transportation Committee hearing on the Boeing 737 MAX, Wednesday, Dec. 11, 2019, on Capitol Hill in Washington. (AP Photo/Jacquelyn Martin)



After the first crash of a Boeing 737 Max last year, federal safety officials estimated that there could be 15 more fatal crashes of the Max over the next few decades if Boeing didn't fix a critical automated flight-control system.

Yet the Federal Aviation Administration did not ground the <u>plane</u> until a second deadly <u>crash</u> five months later.

The FAA analysis was disclosed Wednesday during a hearing of the House Transportation Committee, which is investigating the FAA's oversight of Boeing and the Max.

"Despite its own calculations, the FAA rolled the dice on the safety of the traveling public and let the Max continue to fly until Boeing could overhaul its MCAS software," said Peter DeFazio, D-Ore., chairman of the committee.

MCAS is the name of Boeing's flight-control system that automatically pushed the noses of the doomed planes down in response to faulty readings from a sensor.

FAA Administrator Stephen Dickson declined to call the agency's decision not to immediately ground the plane a mistake. Instead, the FAA and Boeing issued notices reminding pilots how to handle a nosedown pitch of their plane.

"Obviously the result is not satisfactory," Dickson said. "The decision did not achieve the result that it needed to achieve."

The FAA concluded that more than 2,900 people could die in Max crashes over 45 years without the software fix. It assumed the fleet would eventually grow to 4,800 planes. Fewer than 400 were flying before they were grounded in March, after the second crash. And it



estimated Boeing could fix MCAS software in about seven months.



FAA Administrator Stephen Dickson testifies during a House Transportation Committee hearing on the Boeing 737 MAX, Wednesday, Dec. 11, 2019, on Capitol Hill in Washington. (AP Photo/Jacquelyn Martin)

The analysis was completed several weeks after the FAA had already issued the emergency notice to pilots—the agency took no additional steps after estimating 15 future crashes.

An FAA spokesman said the analysis is one of several tools the agency uses to analyze <u>safety issues</u>.



A Boeing spokesman said the company's response to the first crash was "fully consistent with the FAA's analysis and established process."

Dickson said that as Boeing seeks to return the Max to flying, his agency is controlling the process and won't delegate any of that authority to Boeing.

Dickson defended the safety record of U.S. aviation while saying "what we have done in the past and what we are doing now will not be good enough in the future."

A retired Boeing production manager told the lawmakers about "alarming" conditions at Boeing's 737 factory in Renton, Washington, where two Max planes that crashed were built.





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The manager, Edward Pierson, said the assembly line fell far behind schedule by mid-2018 because of cascading problems that began with late delivery of key parts. There weren't enough mechanics and other workers, he said. Yet Boeing went ahead with its plan to boost production from 47 to 52 planes a month.

"By June 2018, I had grown gravely concerned that Boeing was prioritizing production speed over quality and safety," Pierson said in prepared remarks. "I witnessed a factory in chaos and reported serious concerns about production quality to senior Boeing leadership months before the first crash" and again before the second crash.

Pierson said he told his bosses at Boeing that they should shut down the <u>assembly line</u> to deal with safety and quality-control issues, but no action was taken. Executives didn't mention the problems in <u>financial reports</u>.

Pierson, who retired last year, said he wrote to Dickson and other officials. He said he has been interviewed by the Justice Department—it is conducting a criminal investigation of Boeing—but the FAA never responded. Earl Lawrence, the FAA's executive director of aircraft certification, said the agency is investigating and has interviewed Renton production workers.





A Boeing 737 Max airplane being built for Norwegian Air International taxis for a test flight, Wednesday, Dec. 11, 2019, at Renton Municipal Airport in Renton, Wash. The chairman of the House Transportation Committee said Wednesday that an FAA analysis of the 737 Max performed after a fatal crash in 2018 predicted "as many as 15 future fatal crashes within the life of the fleet" during opening remarks at the committee's fifth hearing on the Boeing 737 Max. (AP Photo/Ted S. Warren)

Boeing hopes airlines will be able to use the plane again early next year after the company completes fixes to flight-control software and computers. Dickson has insisted that the FAA has no timetable for granting that approval.

DeFazio praised Dickson's recent comments but was harshly critical of



the agency and Boeing.

The FAA "failed to do its job. It failed to provide the regulatory oversight necessary to ensure the safety of the flying public," DeFazio said.

Published reports indicate that FAA officials knew very little about MCAS, which has been implicated in the October 2018 crash of a Max off the coast of Indonesia and the March 2019 crash of another Max in Ethiopia. In both crashes, investigators say, a faulty sensor caused MCAS to push the nose of the plane down and pilots were unable to regain control. In all, 346 people died.



A worker at right holds up protective covers that need to be removed before flight so the pilots of a Boeing 737 Max airplane can see them, Wednesday, Dec.

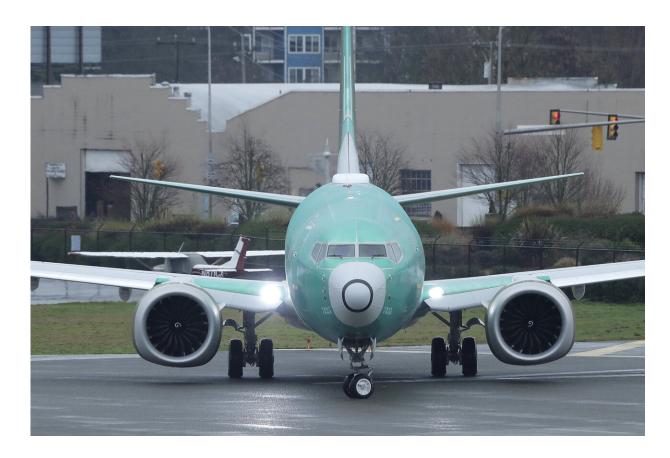


11, 2019, prior to a test flight at Renton Municipal Airport in Renton, Wash. The plane is being built for Norwegian Air International. (AP Photo/Ted S. Warren)



Workers enter a Boeing 737 Max airplane being built for Aeromexico, Wednesday, Dec. 11, 2019, at Renton Municipal Airport in Renton, Wash. The chairman of the House Transportation Committee said Wednesday that an FAA analysis of the 737 Max performed after a fatal crash in 2018 predicted "as many as 15 future fatal crashes within the life of the fleet." (AP Photo/Ted S. Warren)





A Boeing 737 Max airplane being built for Norwegian Air International turns as it taxis for take off for a test flight, Wednesday, Dec. 11, 2019, at Renton Municipal Airport in Renton, Wash. The chairman of the House Transportation Committee said Wednesday that an FAA analysis of the 737 Max performed after a fatal crash in 2018 predicted "as many as 15 future fatal crashes within the life of the fleet" during opening remarks at the committee's fifth hearing on the Boeing 737 Max. (AP Photo/Ted S. Warren)





Workers walk near a Boeing 737 Max airplane being built for Oman Air, Wednesday, Dec. 11, 2019, at Renton Municipal Airport in Renton, Wash. The chairman of the House Transportation Committee said Wednesday that an FAA analysis of the 737 Max performed after a fatal crash in 2018 predicted "as many as 15 future fatal crashes within the life of the fleet." (AP Photo/Ted S. Warren)





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Regulators around the world grounded the plane after the second crash.

Several relatives of passengers who died in the crashes attended Wednesday's hearing.

Dickson suggested that FAA will not delegate key review work to



## Boeing this time.

"The FAA fully controls the approvals process for the flight control systems and is not delegating anything to Boeing," Dickson said in his written testimony. "The FAA will retain authority to issue airworthiness certificates and export certificates of airworthiness for all new 737 Max airplanes manufactured since the grounding."

He said the plane will only return to flying after all safety issues have been addressed and pilots have received enough training to fly the plane safely.

DeFazio and other lawmakers have indicated they may offer legislation to overhaul the way the FAA certifies new aircraft. Dickson said that the FAA can do better, but the safety record of U.S. aviation—no deadly crashes of a U.S. airliner since 2009—shows that the FAA's oversight is working.

"The system is not broken," he said.

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