

Continued Airworthiness Notification to the International Community

To: Civil Aviation Authorities

Date: June 8, 2018

From: Federal Aviation Administration
Aircraft Certification
System Oversight Division, AIR-800
2200 South 216th Street
Des Moines, WA 98198

Subject: This message is to advise you of the FAA's ongoing activities related to the potential for all six flight deck displays blanking on The Boeing Company Model 747-8/8F airplanes with a certain Airport Map Database (AMDB) installed.

Situation description: A recent Jeppesen AMDB release includes content that can cause all six flightcrew displays to blank on the 747-8/8F airplane. Boeing is recommending interim flight crew operational restrictions and is developing maintenance actions to mitigate this issue. There are two companies (Jeppesen and LIDO) that provide AMDB databases. Only airplanes that have Jeppesen AMDB with the current cycle release (24 May 2018 - 20 June 2018) with the Sydney, Australia airport (YSSY) installed are affected. Because this AMDB could be installed on any Model 747-8/8F, this issue is applicable to all Model 747-8/8F airplanes.

Aircraft/engine make, model, and series: Boeing Model 747-8/8F airplanes.

U.S.-registered fleet: approximately 19 airplanes; **Worldwide fleet:** approximately 127 airplanes

Operators: There are 22 operators worldwide. The largest fleets known to have Jeppesen AMDB installed include Korean Air, Atlas Air Inc., Air China, and UPS.

Ongoing activities: On June 5, 2018, Boeing released a Multi-Operator Message (MOM) MOM-MOM-18-0324-01B which advised operators of potential display blanking that may occur if a Flight Management Computer (FMC) flight plan or flight plan modification is executed with YSSY in the origin or destination field.

We received a report where an airline experienced all six displays blanking out on a Model 747-8/8F airplane while on-ground. This occurred after a route with YSSY, entered as the destination airport in the FMC, was activated and executed. After further investigation, Boeing determined that there is a data structure in the Jeppesen AMDB which the EFIS/EICAS Interface Unit (EIU) has difficulty processing and in result, can cause display blanking. Jeppesen has confirmed that this data structure has been found to be ONLY present in the Sydney Airport (YSSY) of the current cycle release (24 May 2018 - 20 June 2018) of the Jeppesen AMDB. This issue can manifest itself whenever YSSY is entered as an origin or destination and the flight plan is activated and executed. In flight, this issue can occur by execution of a diversion with YSSY as the selected diversion airport; in this case, additional flight deck effects can include an autothrottle disconnect and an autopilot mode fail.

The FAA agrees with Boeing that appropriate immediate interim mitigating action is to NOT operate Model 747-8/8F airplanes that have Jeppesen AMDB with the current cycle release installed, to Sydney Airport (YSSY), either as a destination or as an alternate. Affected operators should not enter YSSY into the FMC flight plan as either an origin or destination, by any method.

We continue to coordinate with Boeing to develop interim and long term solutions for affected operators. We are considering airworthiness action to address the interim action within the next week.

For additional questions regarding this safety issue, please contact Ross Landes, AIR-780, at (206) 231-3500.

Next update, if any: N/A

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