

**Aviation Safety Investigation Report
199502611**

**Boeing Co
B747-238B**

14 August 1995

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NOTE: All air safety occurrences reported to the ATSB are categorised and recorded. For a detailed explanation on Category definitions please refer to the ATSB website at www.atsb.gov.au.

1.3 The rejected takeoff was accomplished at a speed reported by the captain to be approaching V one (V1), however the Flight Data Recorder information could not be retrieved and the actual speed is unknown. V1 is the maximum speed from which the aircraft can be safely stopped when takeoff is discontinued. The aircraft was stopped at taxiway Bravo 4 (B4) which is approximately 2200 metres from the threshold of runway 15.

1.4 Examination of procedures in the Qantas Airport Services Manual revealed that there was no standard procedure for loading and unloading a container compartment. The manual states that many variations of loading and unloading can be accomplished with proper selection of control switches and restraint hardware. The design of the sill locks is such that although they are painted red, there is no visual indicator to warn that they are not locked down before the compartment door is closed. There is no reason to believe that had the loader not been interrupted in his task that he would not have put the sill locks down. The leading hand who asked the loader to man the tug for pushback, omitted to check that the locks were engaged before he closed the door. He stated that this was due to a variance of procedure, because he deploys the locks before lowering the bridge, and the loader deploys the locks after lowering the bridge. The interruption to the procedure, at the point where the locks would have otherwise been engaged was thus unfortunate, and led to the omission.

1.5 The sill locks provide vertical and lateral restraint on one side of the container only. The container was restrained vertically and longitudinally by the remainder of the locking devices, and could not have moved if the aircraft had become airborne.

3. CONCLUSIONS

Findings.

1. A container in the rear cargo hold at position R44 was not fully restrained by the aircraft locking system.
2. The persons responsible were aware of their responsibility, but due to task interruption, and variance in procedures, a final check to ensure the sill locks were activated was omitted.
3. There was no warning device or mechanical means to prevent the door from being closed when the sill locks were not activated.
4. There was no specific procedure laid down for loading or unloading, however the Load Instruction Report certifies that the aircraft has been loaded in accordance with the Aircraft Load and Balance Manual, and that the load is secured by the aircraft locking system.

Significant factors

1. The aircraft departure was late.
 2. The loading team changed positions to save time.
 3. Loading procedures were not standardised.
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