



## **NATIONAL TRANSPORTATION SAFETY BOARD**

Office of Aviation Safety  
Washington, D.C. 20594

February 2, 2015

**Attachment 26 – B747 Normal Takeoff Callouts**

# **OPERATIONAL FACTORS**

**DCA13MA081**



Phase of Flight	Condition	Callout [PM] unless noted
Takeoff	80 knots, takeoff thrust set, and HOLD indicated on the FMA	"80 knots, thrust set" "Check" [PF]
	5 knots prior to V1, and at VR	"V1", "ROTATE"
	When both the Altimeter and Vertical Speed displays show a positive rate of climb and airspeed above V2	"Positive climb" "Gear up" [PF]
Climb	Reaching Transition Altitude	"Transition"
	1,000 feet below assigned altitude	"1,000 to level off"
Cruise	+/- 100 feet deviation from assigned altitude	"Altitude"
Descent	1,000 feet above assigned altitude	"1,000 to level off"
	Reaching transition level	"Transition, ____ (in/hPa) set"
Approach	Localizer CDI starts first positive movement from full deflection.	"Localizer alive"
	VOR pointers are within 10 degrees of inbound course.	"Course alive"
	ADF bearing pointers are within 10 degrees of inbound course.	"Course alive"