INVESTIGATION EVENT MANAGEMENT CHECKLIST – EVENT 42: AIRCRAFT PERFORMANCE

INVESTIGATION NUMBER	AIRCRAFT TYPE / REGISTRATION MARKS/ OPERATOR
DATE	COMPLETED BY

S/N	Aircraft Perfromance (Events 3, 17 and 31 Refer)	Time	Action started	Action completed
1	Collect all information affecting aircraft performance, and review:			
A	– Flight crew and passenger interviews;			
B	– Air traffic services and cockpit voice recorder data;			
C	– Flight data recorder plots;			
D	– Flight data recorder information related to previous flights of the aircraft;			
E	– Eyewitness interviews;			
F	– Weather data;			
G	– Engine performance findings;			
H	– Structures findings; and			
I	– Systems findings.			
2	For take-off or landing phase accidents, the following basic information is required:			
A	– Aircraft gross weight;			
B	– Aircraft configuration;			
C	– Airfield elevation;			
D	– Temperature;			
E	– Pressure and density altitudes;			
F	– Wind direction and velocity;			
G	– Runway slope;			
H	– Runway surface (type and braking action);			
I	– Runway length;			
J	– Pertinent obstacles; and			
K	– Engine thrust.			
3	Complete a mathematical analysis of the theoretical take-off or landing performance of the aircraft;			
4	Compare actual and theoretical flight path and assess the significance of differences;			
5	Obtain specialist assistance as required;			
6	Consider the requirement for the conduct of flight tests or simulator tests to determine the effects of various combinations of aircraft configuration, engine performance and pilot techniques; and			
7	If required, assess accuracy of performance charts.			