

The following analysis was conducted by the Chief Pilot and Flight Operations Department of Columbia Helicopters, Inc. in May 2010. It was updated using revised NTSB reports in August 2010.

TRANSCRIPT OF N612AZ CVR APPEARS AS BLACK TEXT ON YELLOW BACKGROUND

ANALYSIS BY COLUMBIA HELICOPTERS, INC. APPEARS AS WHITE TEXT ON RED BACKGROUND.

Source Documents Used:

NTSB Vehicle Recorder Division, Group Chairman's Factual Report of Investigation LAX080PA259 dated August 17, 2009 – Cockpit Voice and Flight Data Recorder

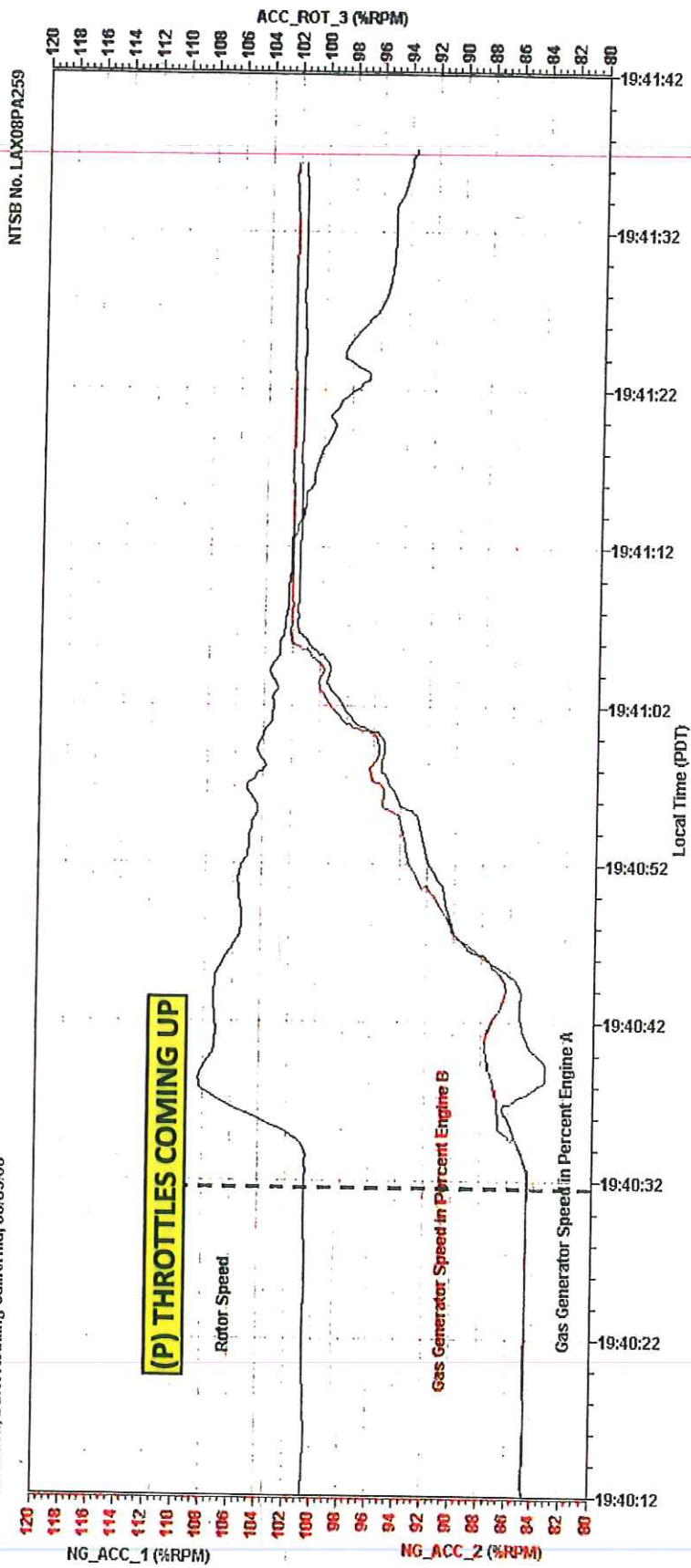
NTSB Vehicle Recorder Division, Group Chairman's Report of Investigation LAX080PA259 dated May 21, 2009 – Sound Spectrum Study Cockpit Voice Recorder

NTSB Vehicle Recorder Division, Group Chairman's Report of Investigation LAX080PA259 dated April 13, 2010 – Addendum Sound Spectrum Study Cockpit Voice Recorder

19:40:31.4

Carson S61 Accident Takeoff from H44

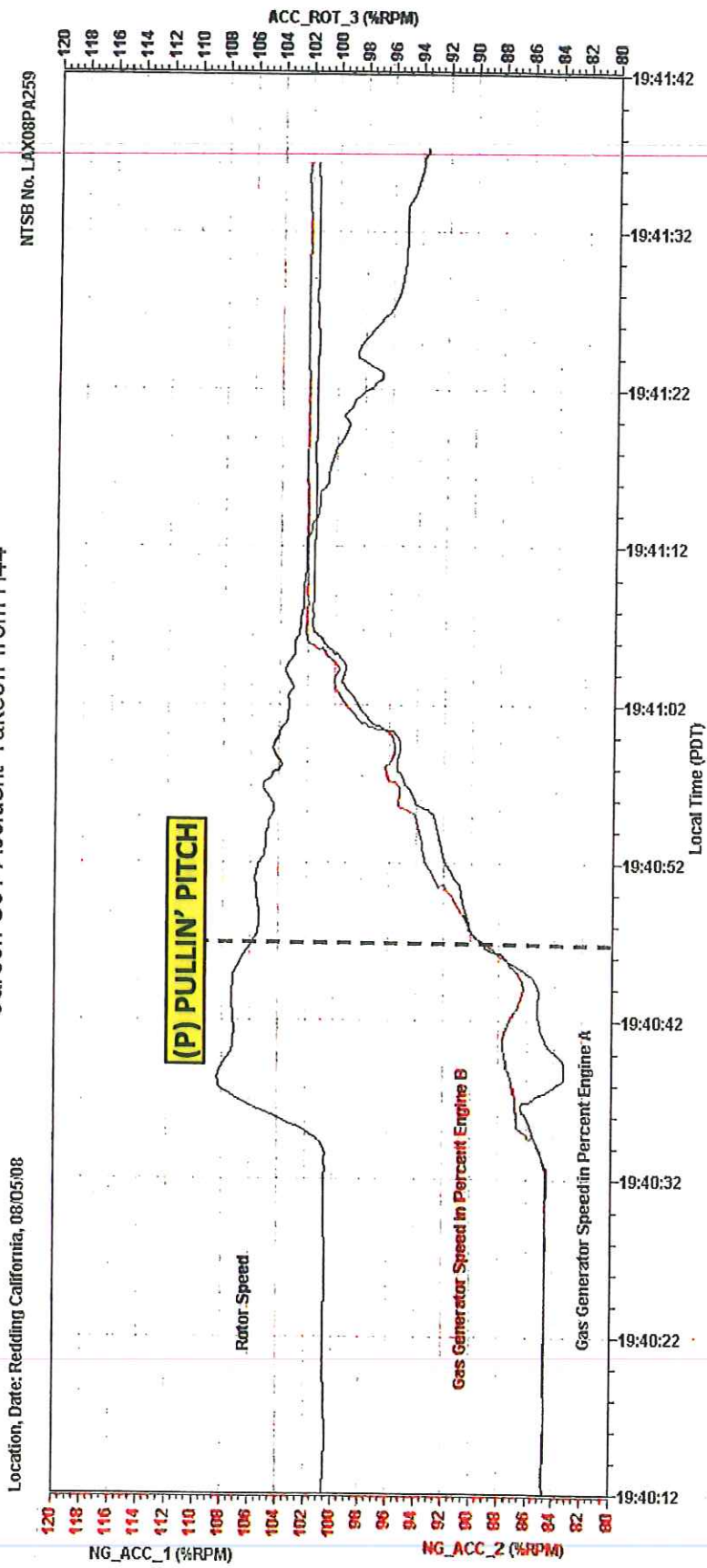
Location, Date: Redding California, 08/05/08



Revised: 8 April 2010

19:40:46.9

Carson S61 Accident Takeoff from H44

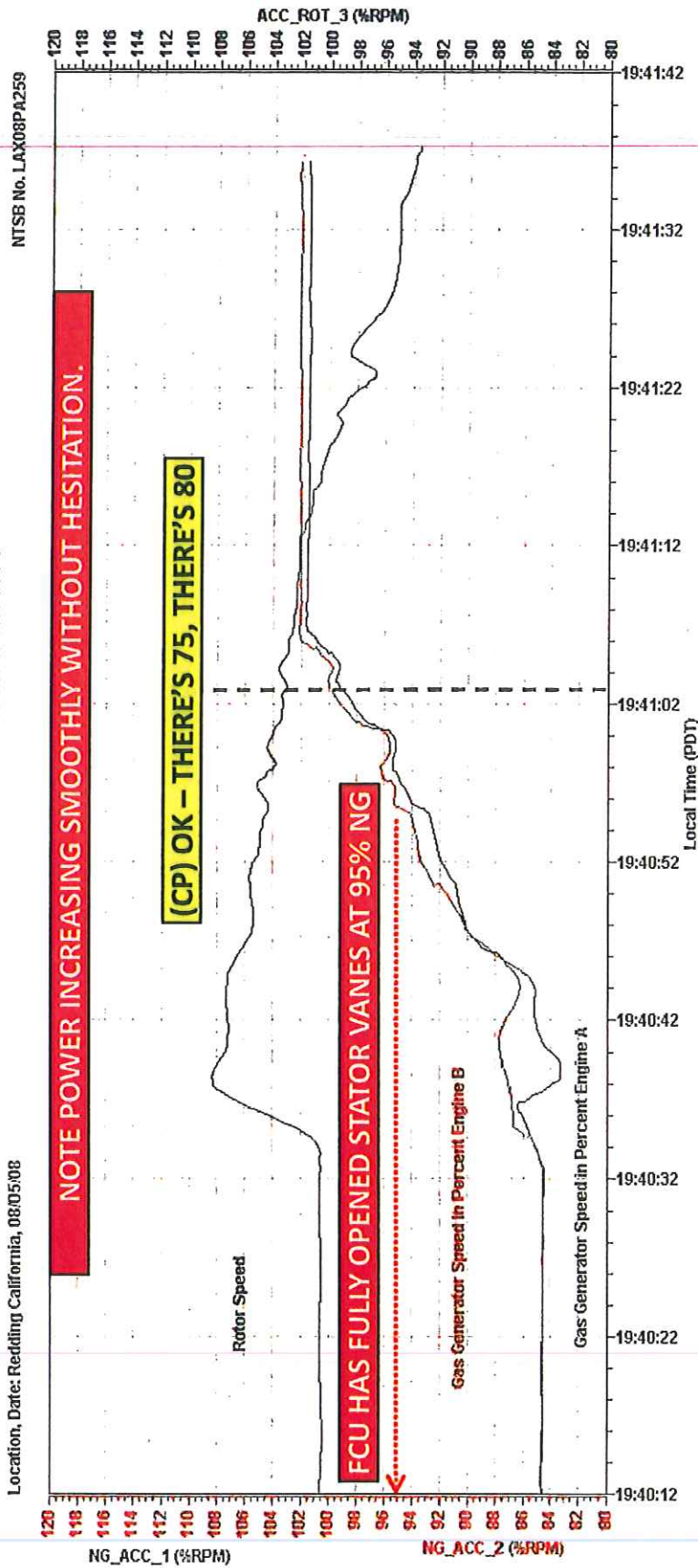


Revised: 8 April 2010

National Transportation Safety Board

19:41:02.9

Carson S61 Accident Takeoff from H44

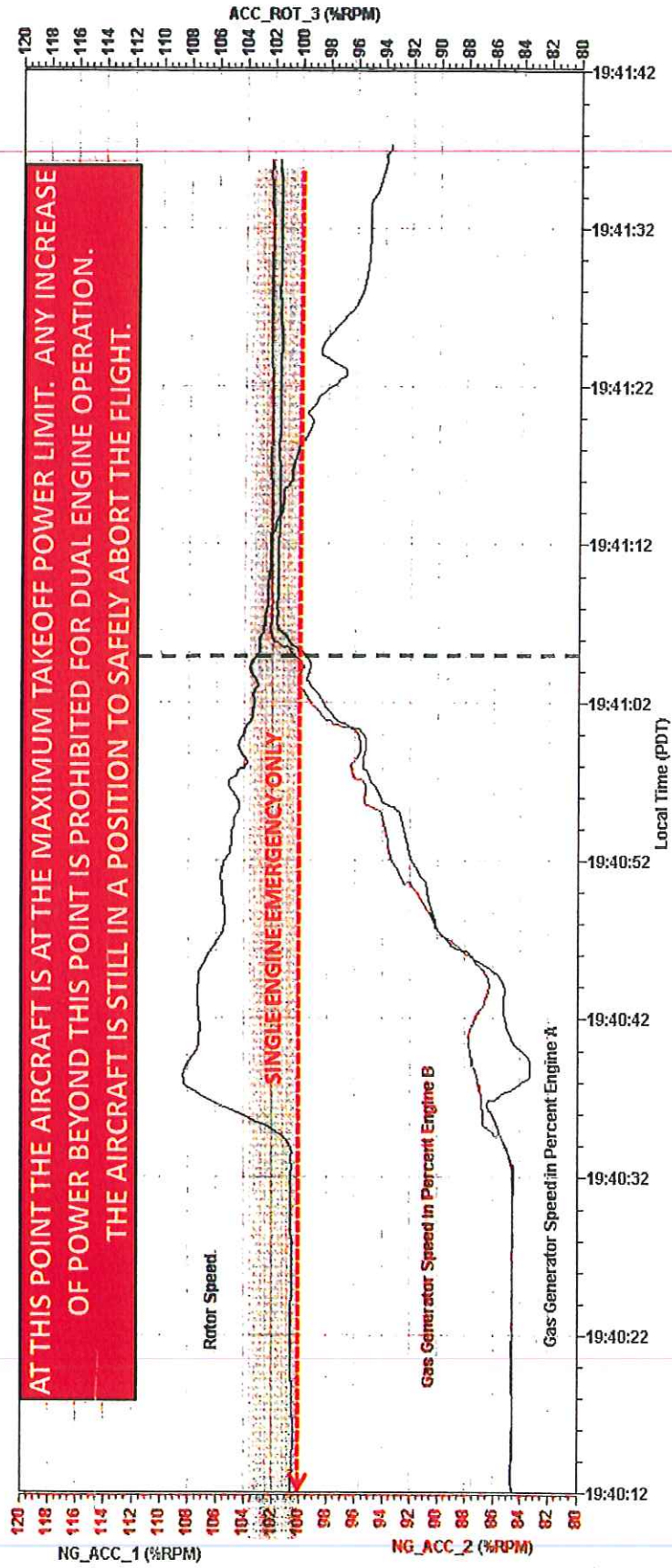


19:41:05.0

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



Revised: 8 April 2010

National Transportation Safety Board

19:41:06.4

Carson S61 Accident Takeoff from H44

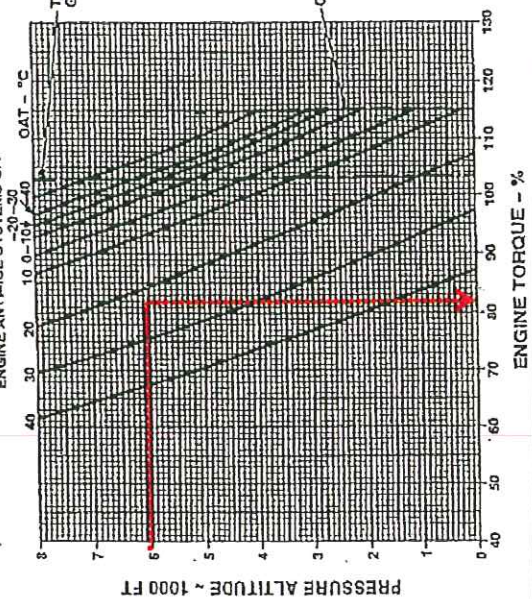
Location, Date: Redding California, 08/05/08

Carson Helicopters Inc.
Perkasie, Pa 18944
RFMS # 5

S61N

**POWER AVAILABLE
TAKEOFF POWER (5 MIN TWIN, 30 MIN OEI)
CT58-140-1, -2 ENGINE(S)
103% NR**

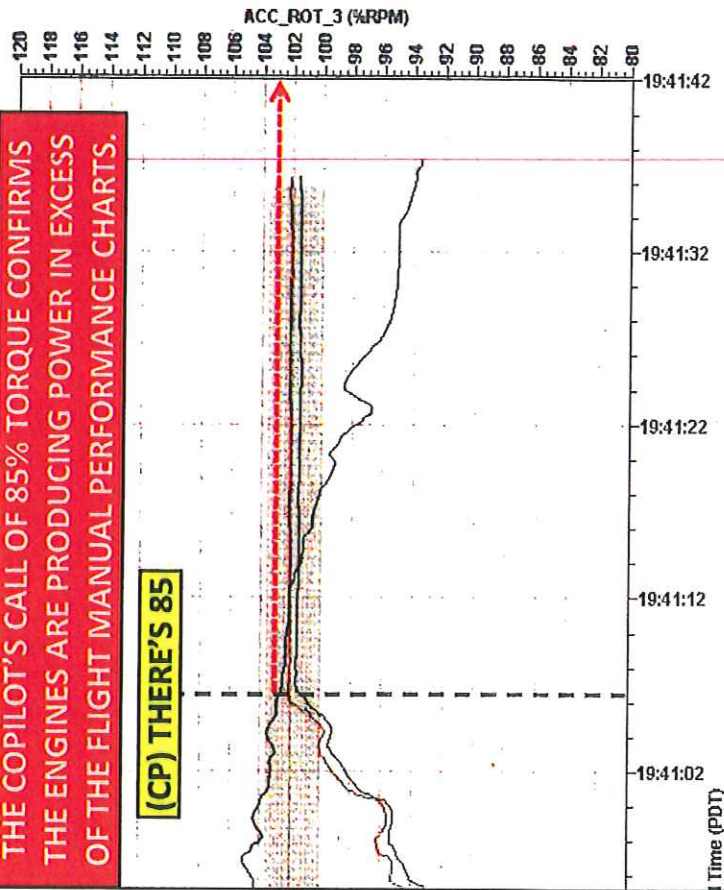
SPECIFICATION POWER
ENGINE ANTI-ICE SYSTEMS OFF



NTSB No. LAX08PA259

**THE COPILOT'S CALL OF 85% TORQUE CONFIRMS
THE ENGINES ARE PRODUCING POWER IN EXCESS
OF THE FLIGHT MANUAL PERFORMANCE CHARTS.**

(CP) THERE'S 85



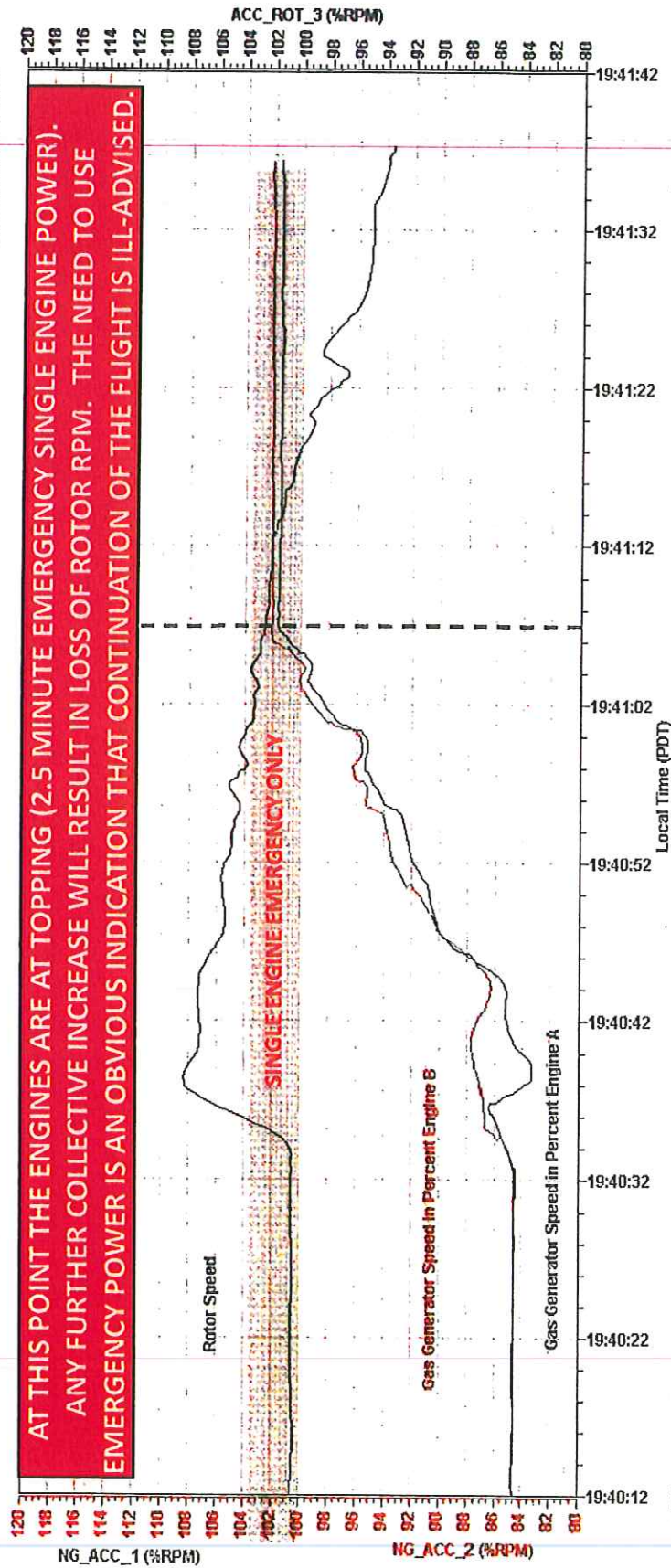
National Transportation Safety Board

19:41:07.0

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259

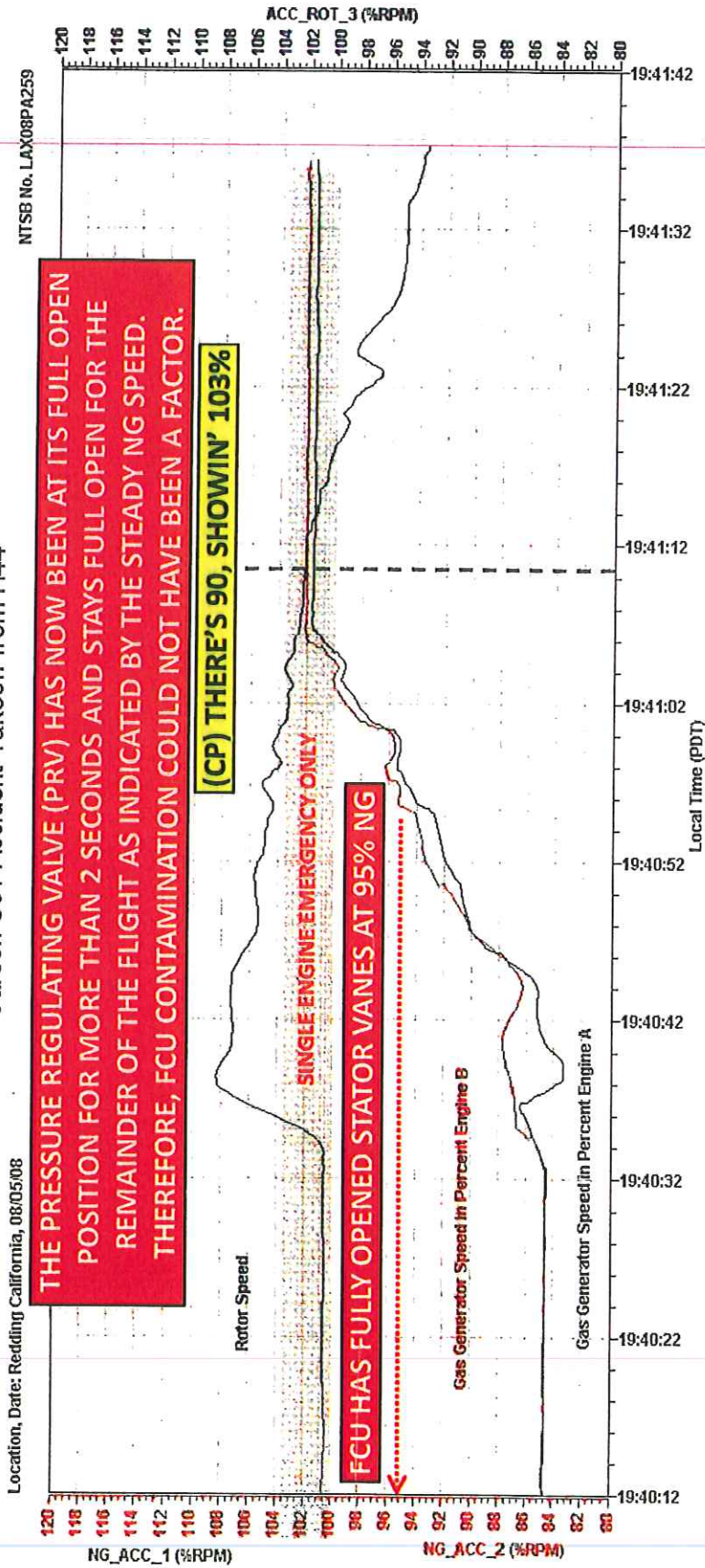


Revised: 8 April 2010

National Transportation Safety Board

19:41:10.5

Carson S61 Accident Takeoff from H44



Revised: 8 April 2010

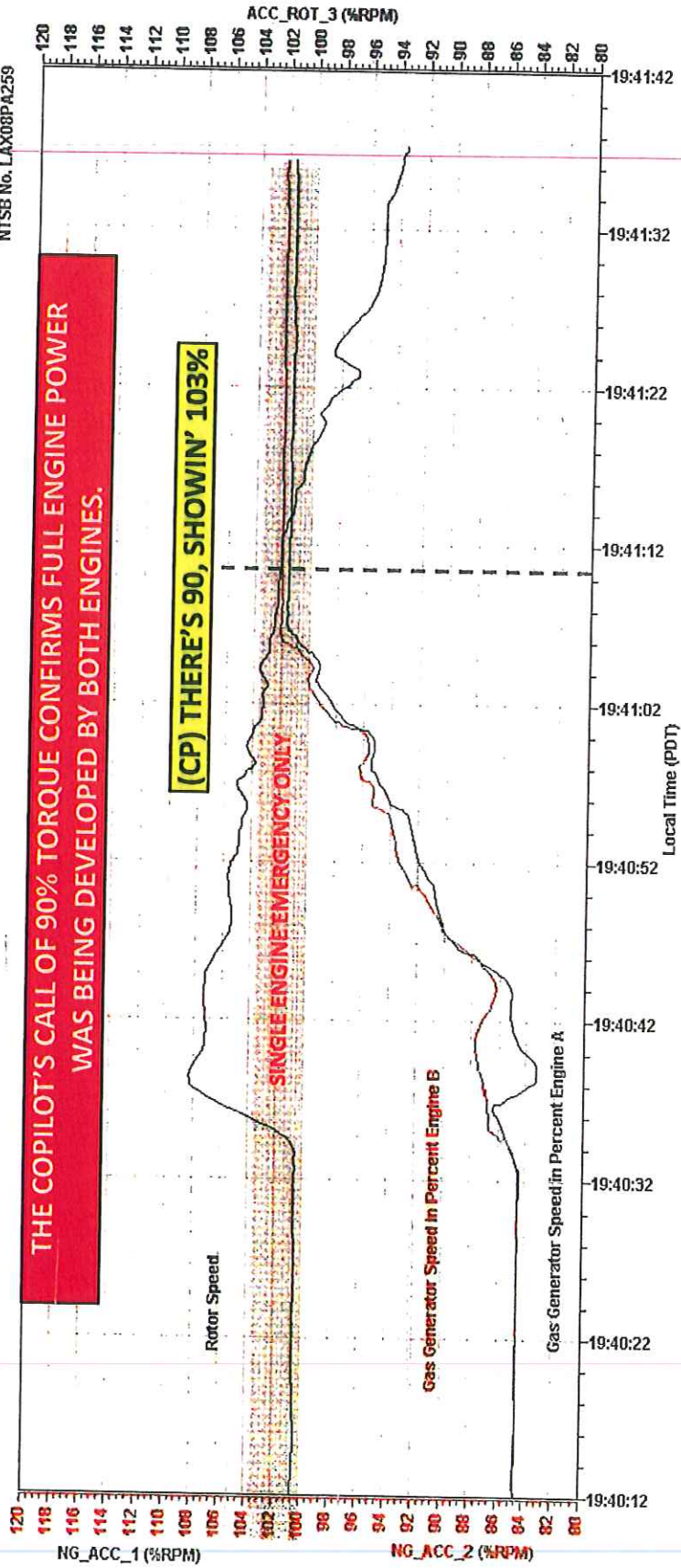
National Transportation Safety Board

19:41:10.5

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



Revised: 8 April 2010

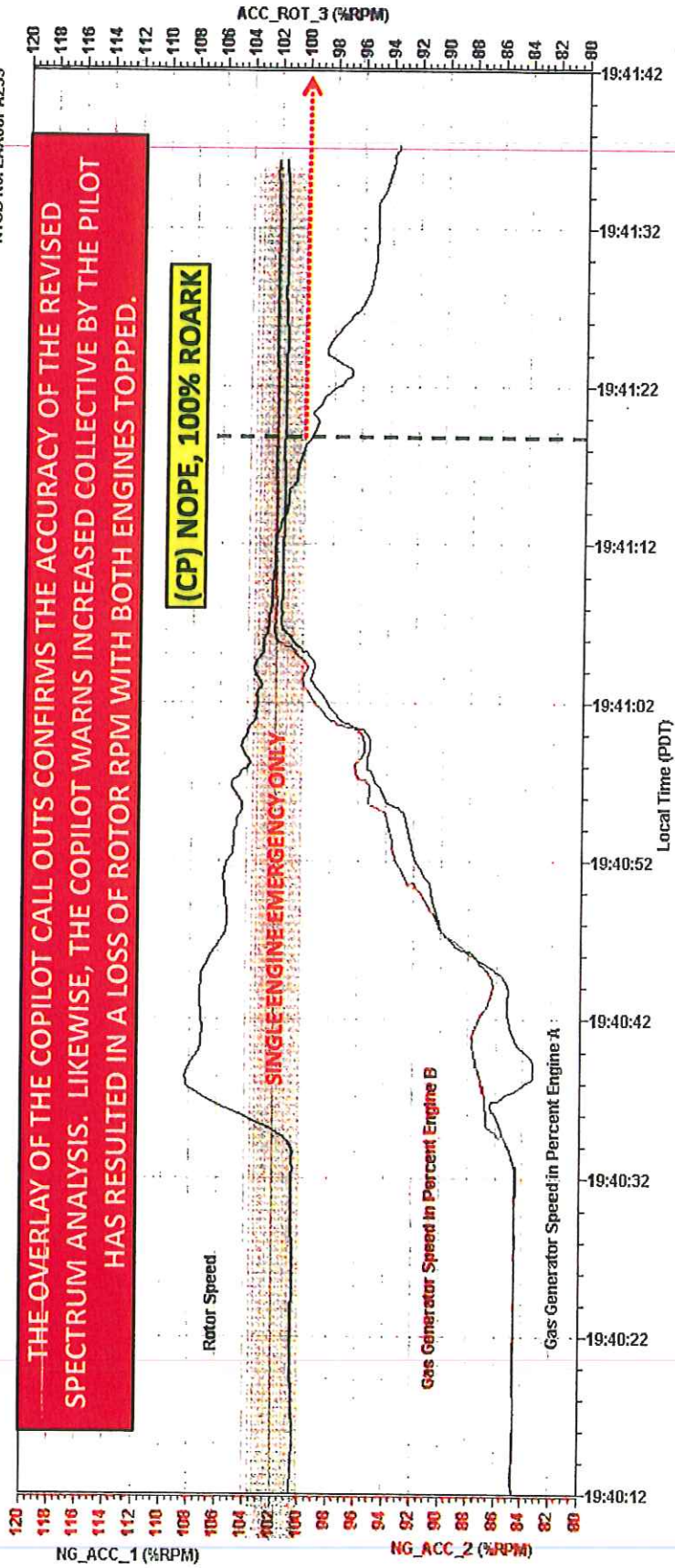
National Transportation Safety Board

19:41:18.8

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



Revised: 8 April 2010

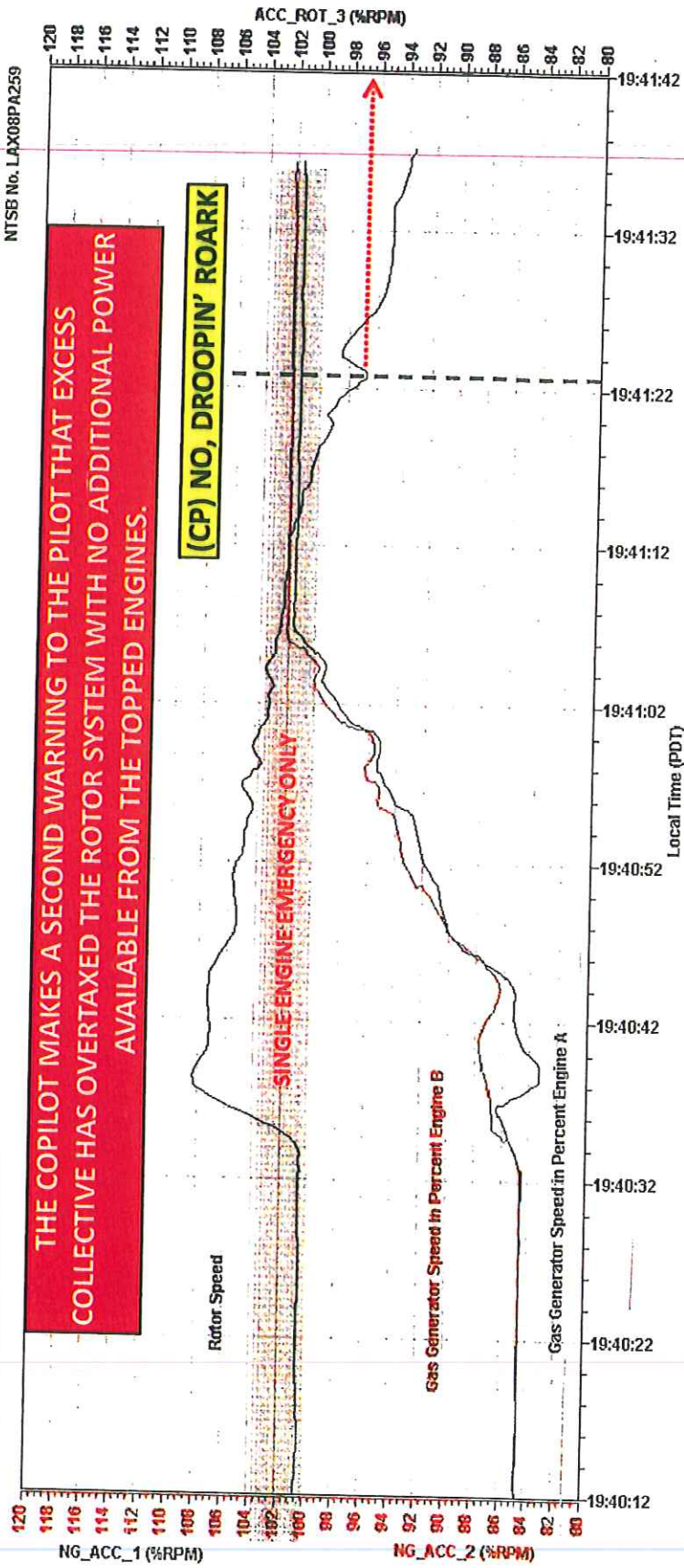
National Transportation Safety Board

19:41:22.9

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



Revised: 8 April 2010

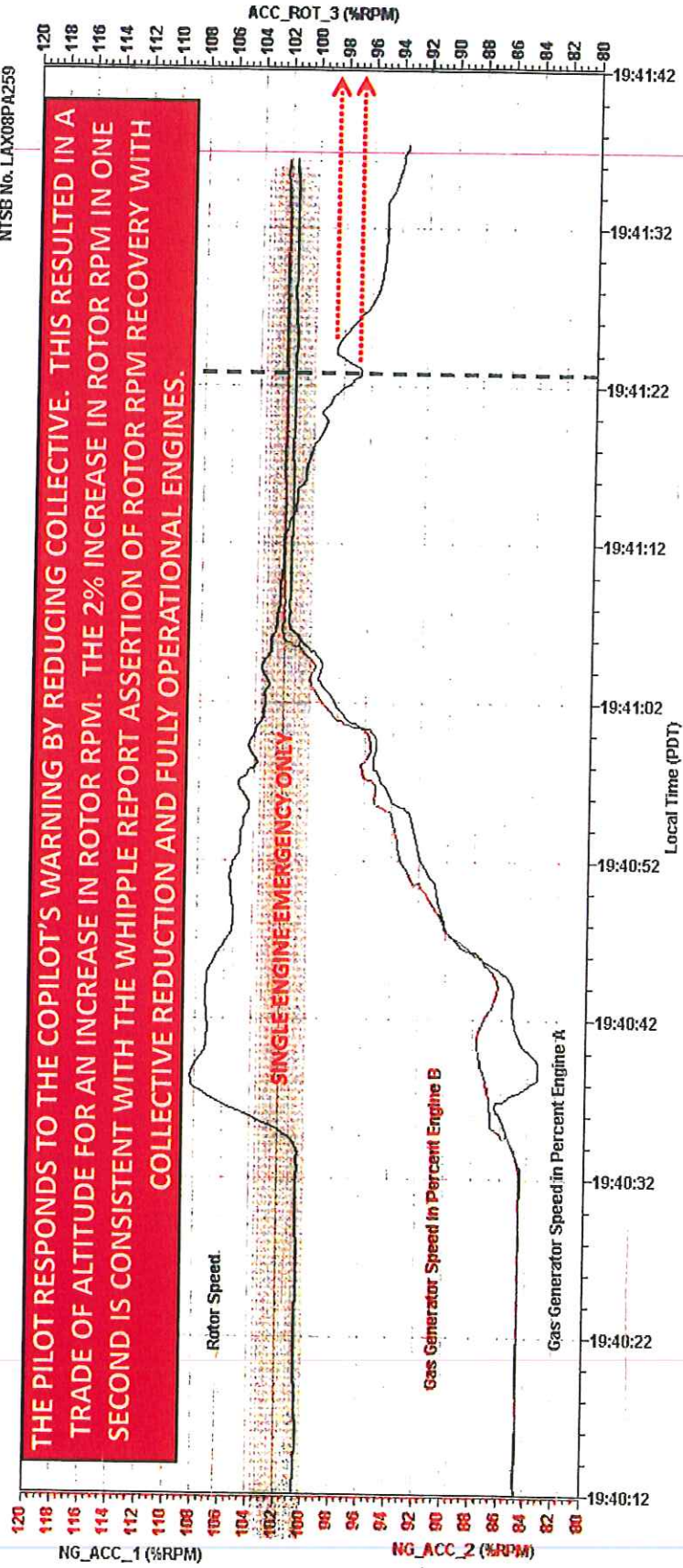
National Transportation Safety Board

19:41:22.9

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



Revised: 8 April 2010

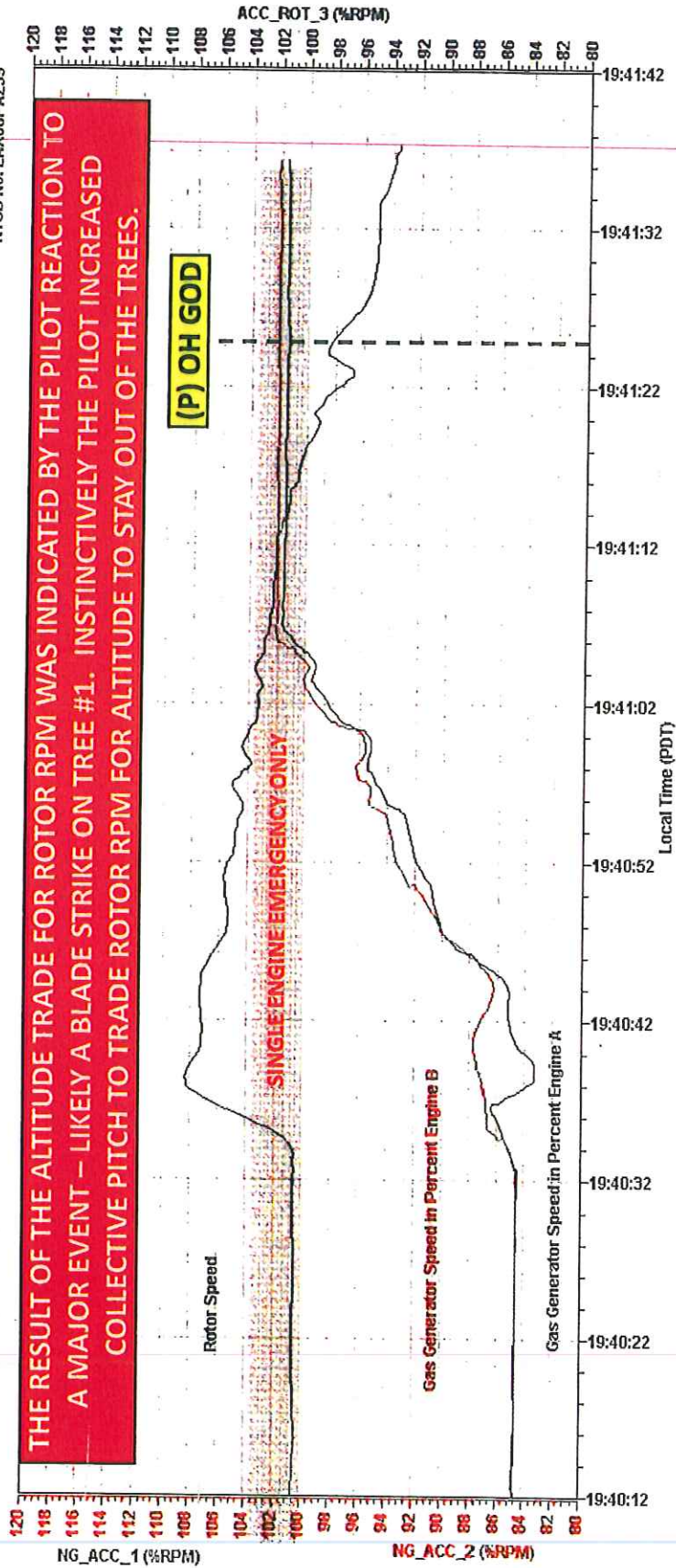
National Transportation Safety Board

19:41:24.8

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



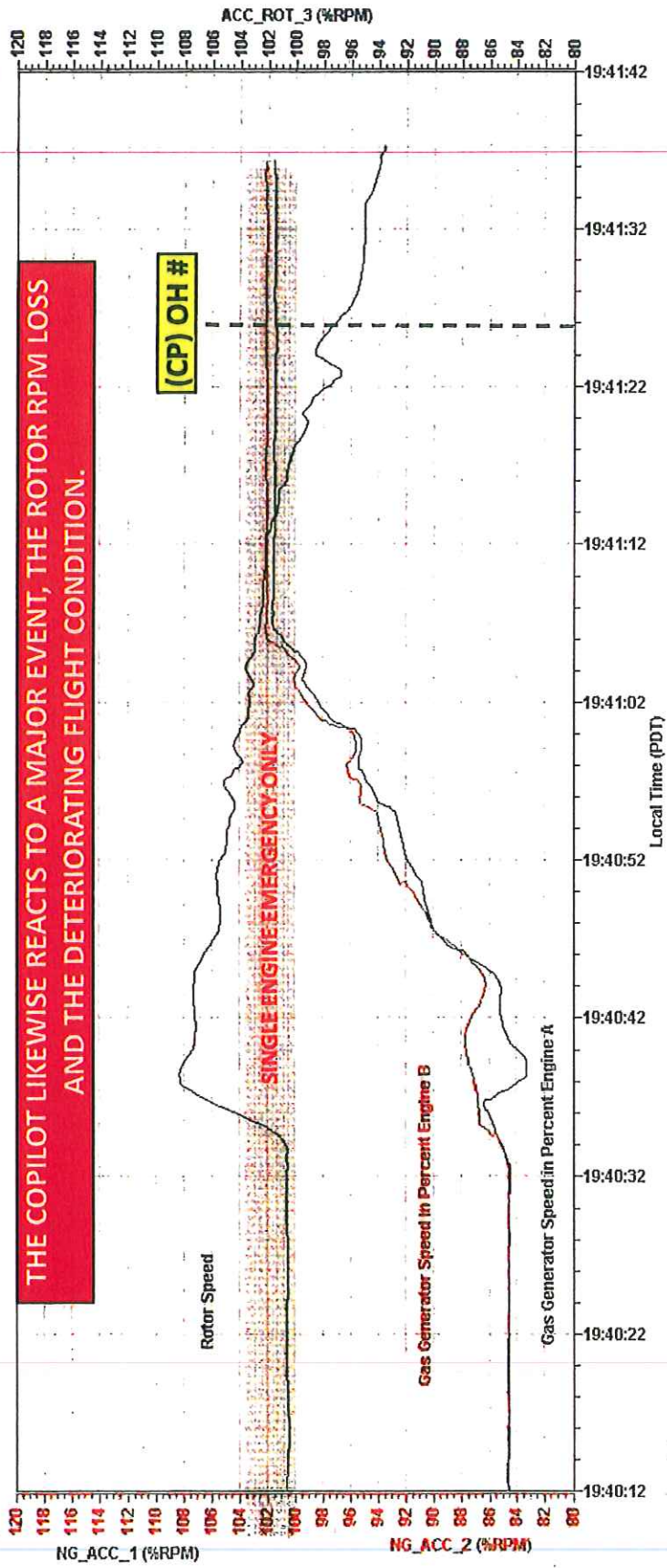
Revised: 8 April 2010

19:41:25.8

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259

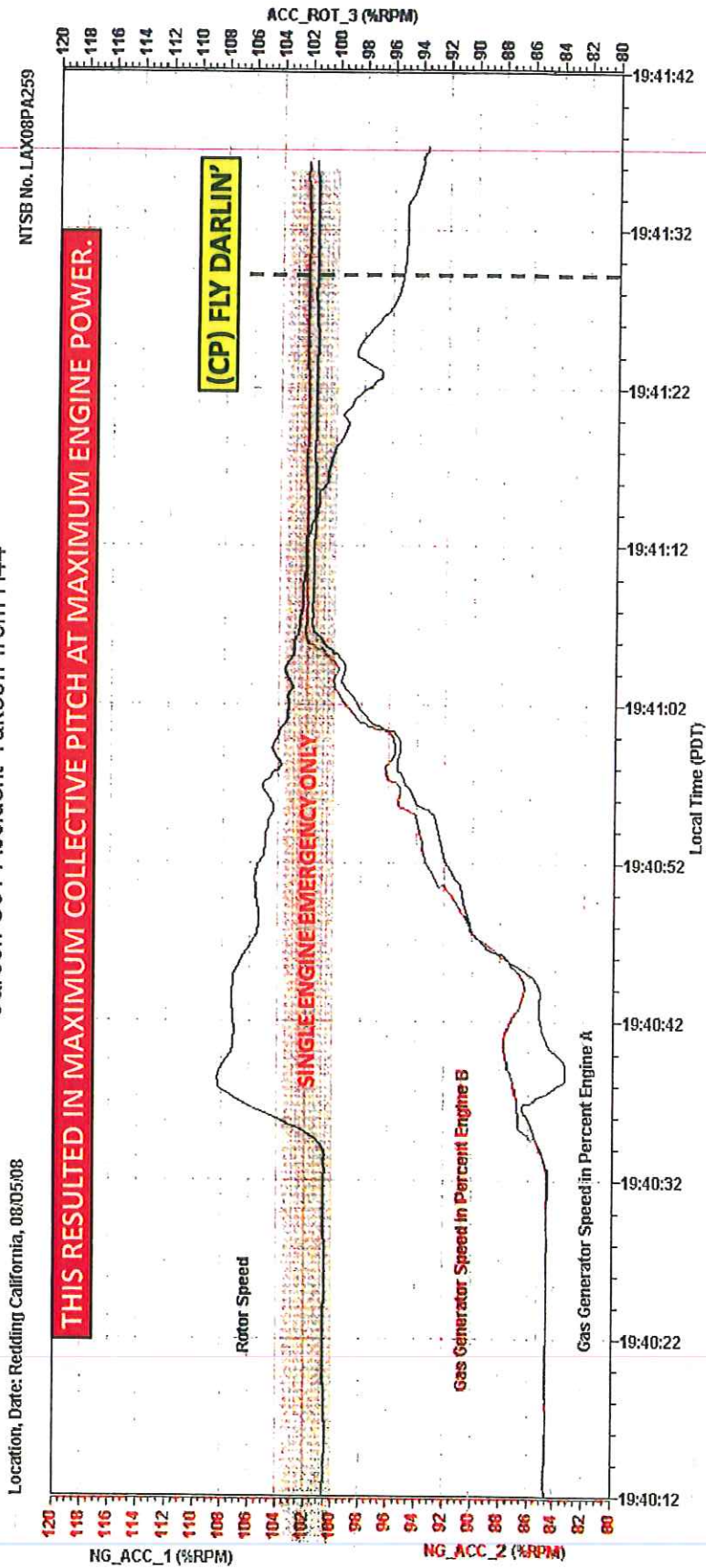


Revised: 8 April 2010

National Transportation Safety Board

19:41:29.1

Carson S61 Accident Takeoff from H44



Revised: 8 April 2010

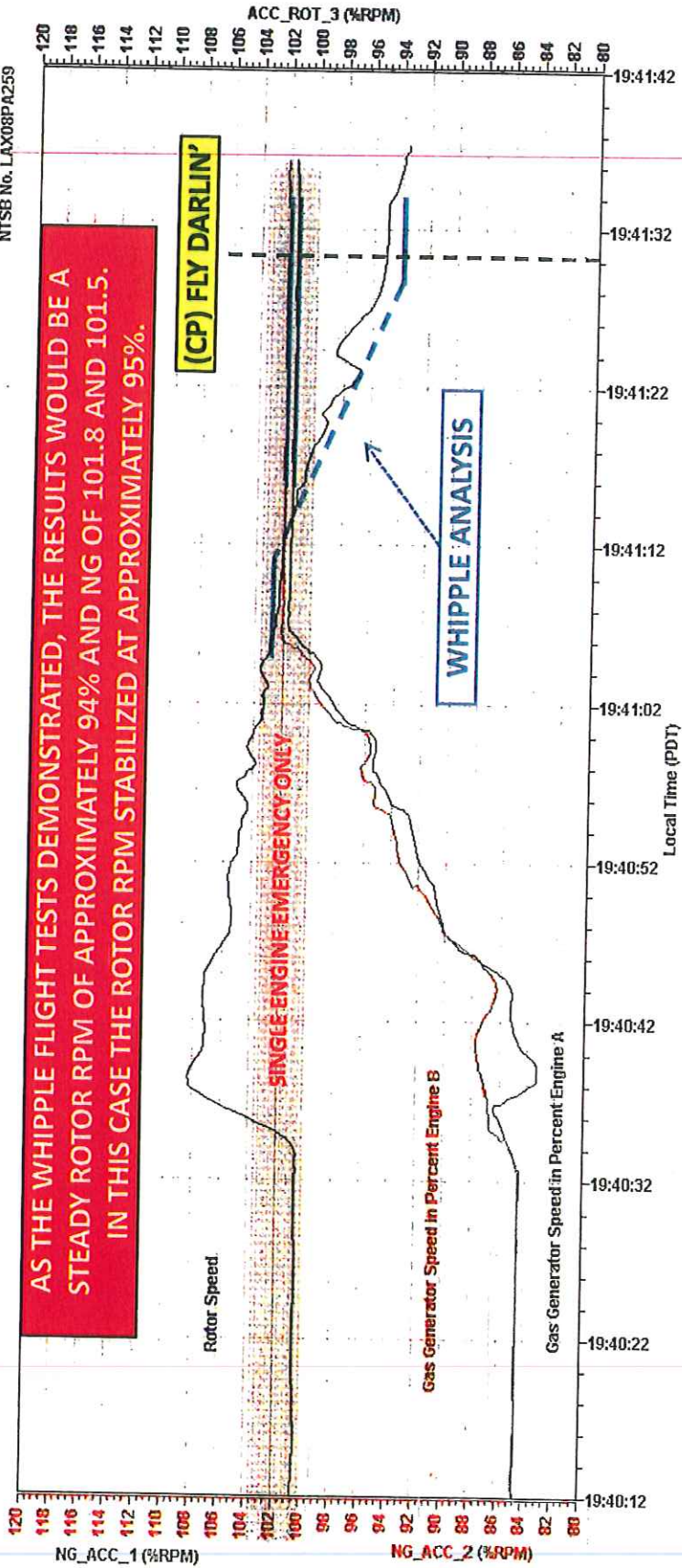
National Transportation Safety Board

19:41:30.3

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



Revised: 8 April 2010

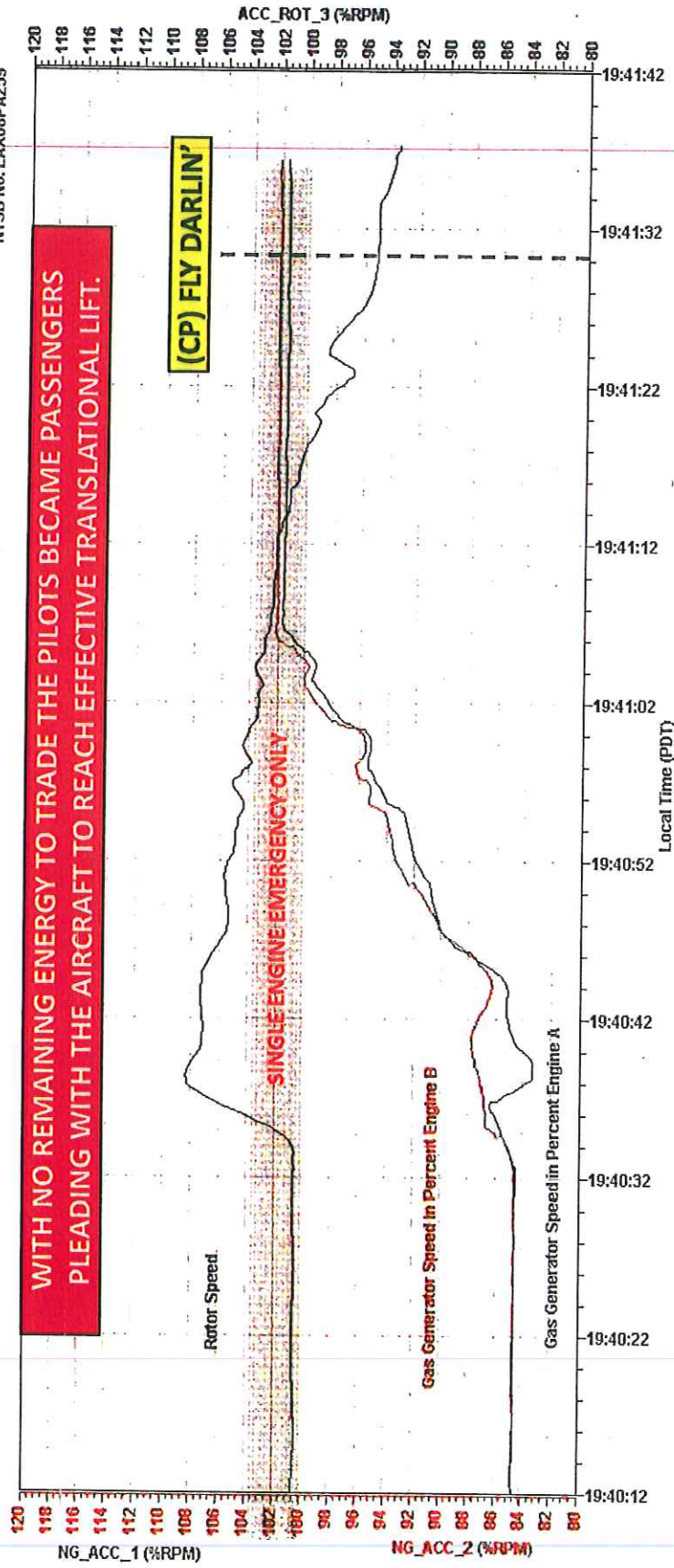
National Transportation Safety Board

19:41:31.3

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



Revised: 8 April 2010

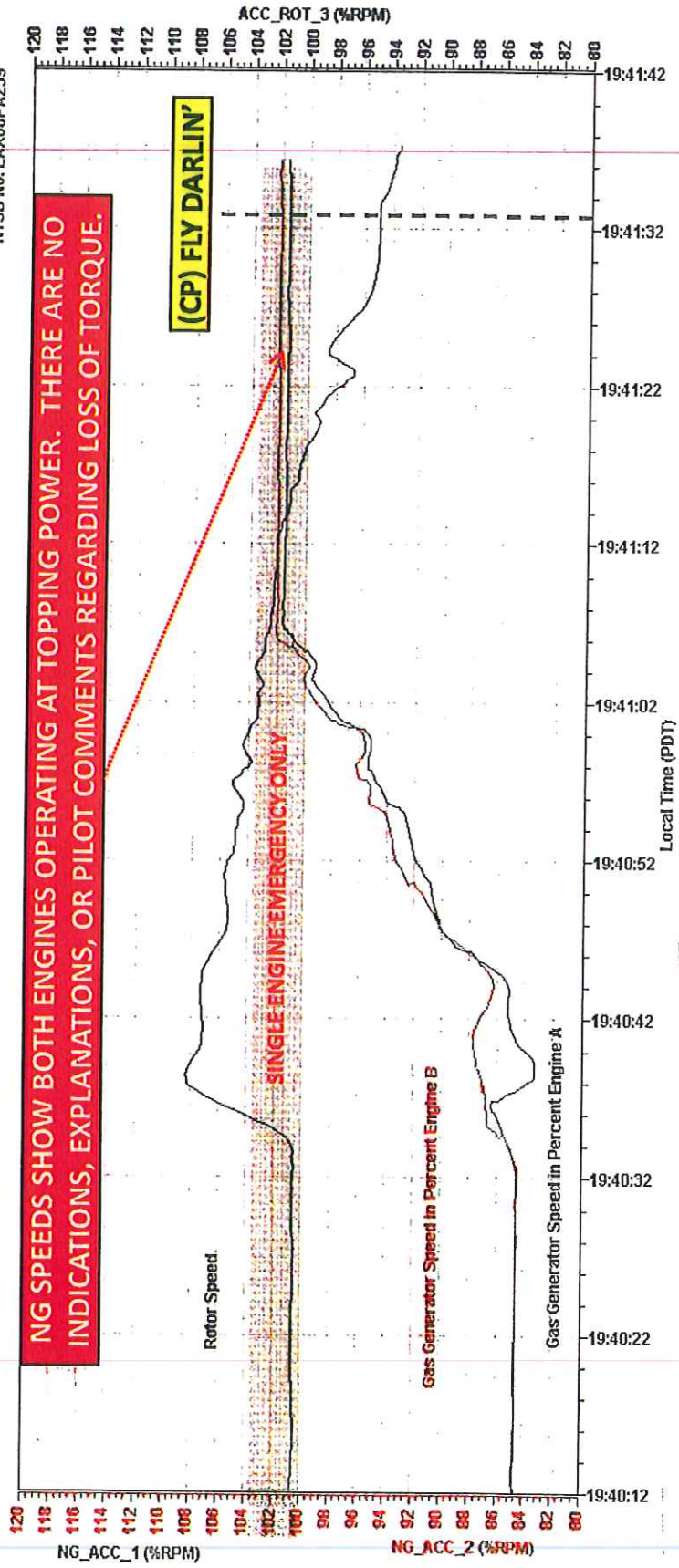
National Transportation Safety Board

19:41:32.9

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



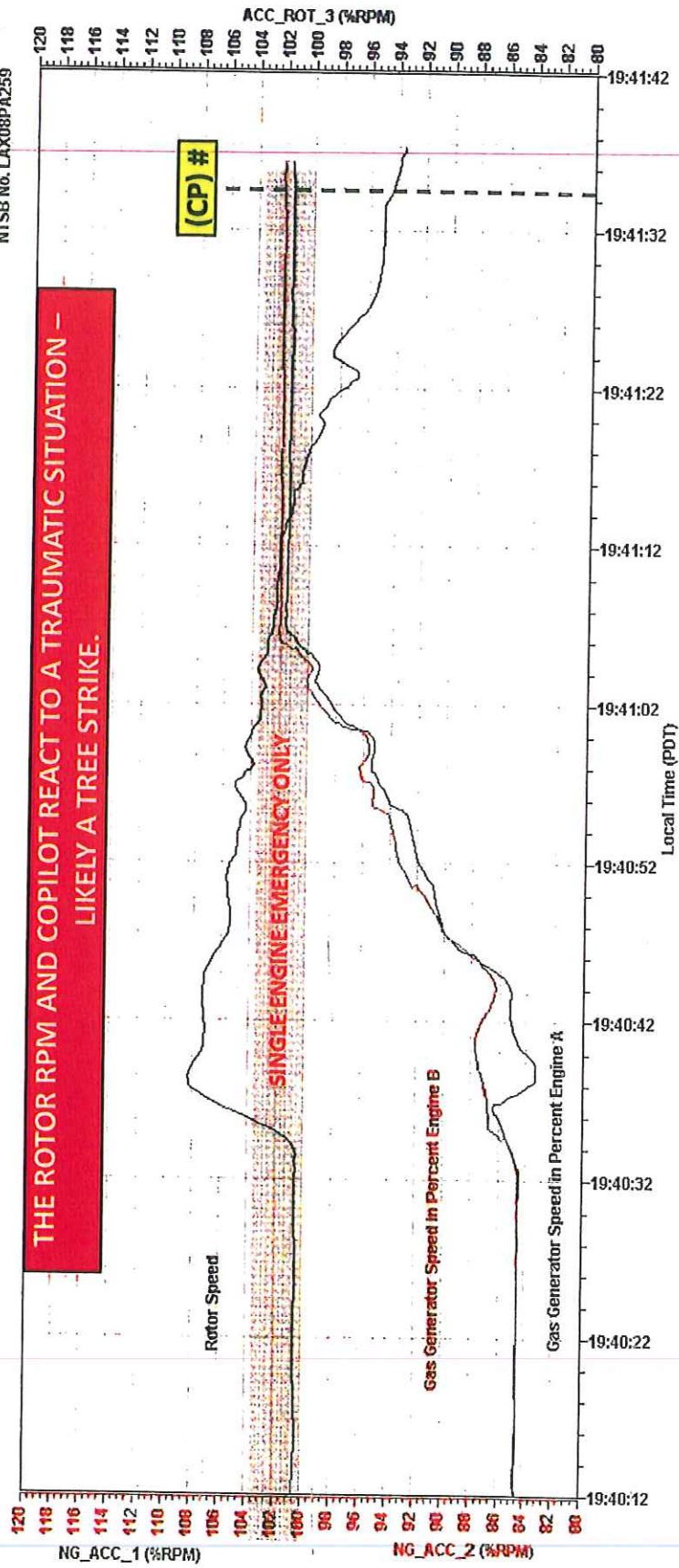
Revised: 8 April 2010

19:41:34.5

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

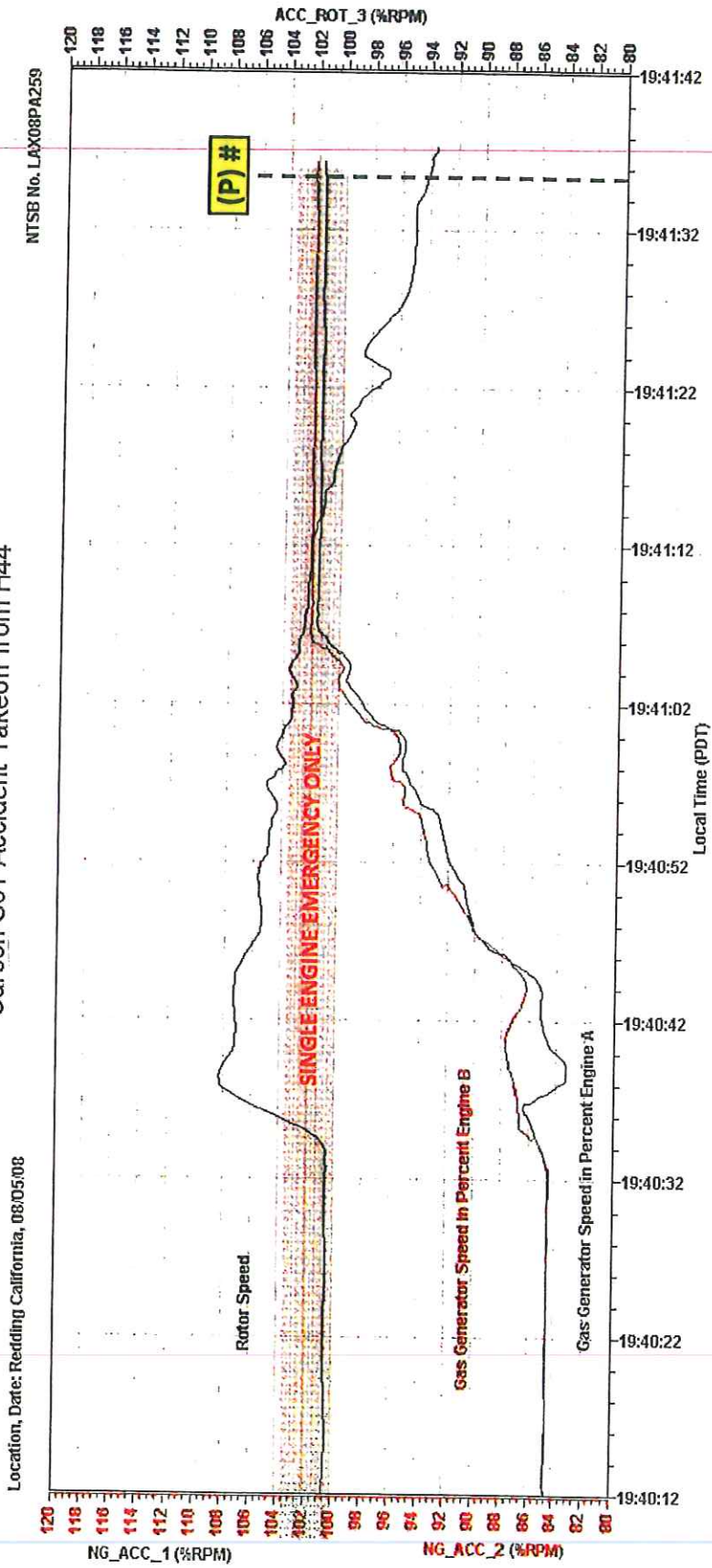
NTSB No. LAX08PA259



Revised: 8 April 2010

19:41:35.3

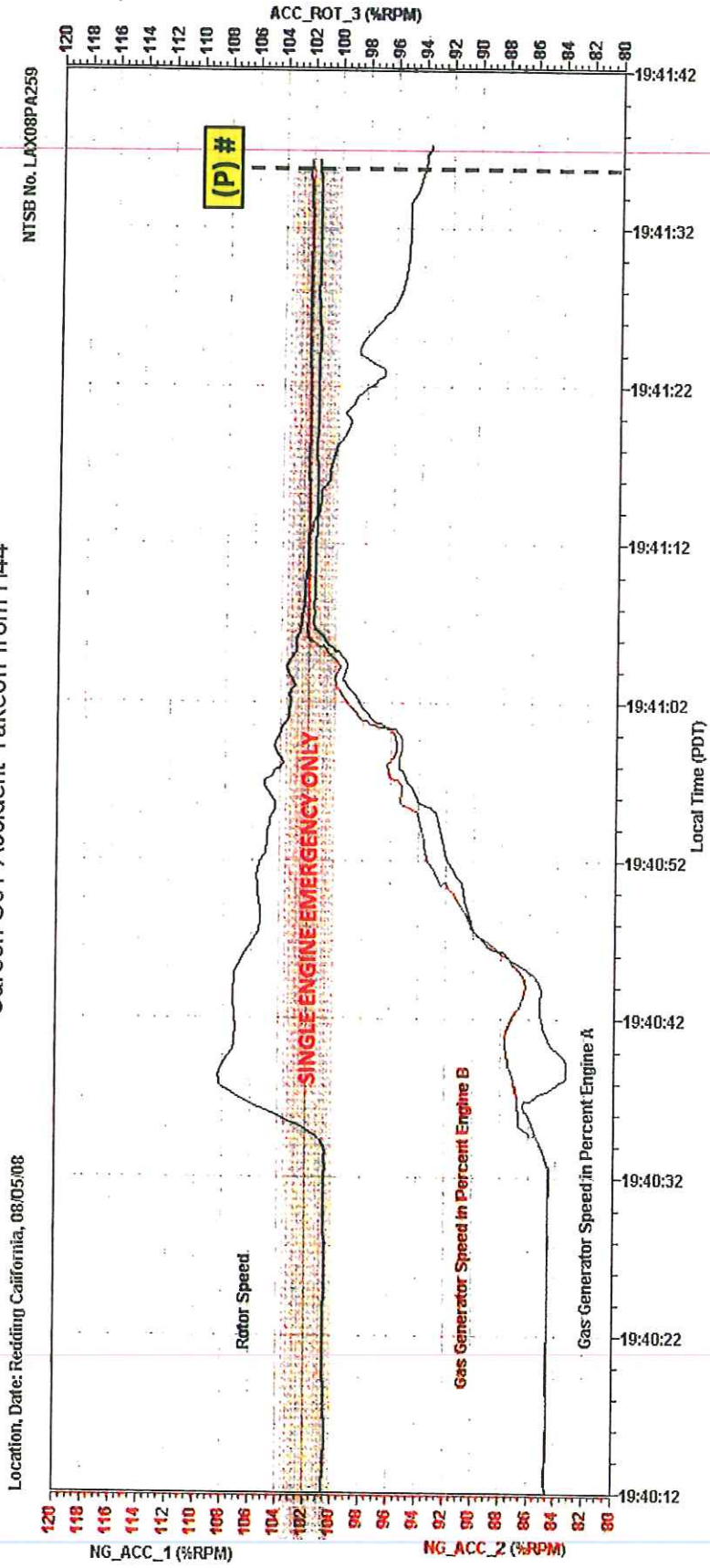
Carson S61 Accident Takeoff from H44



Revised: 8 April 2010

18:41:35.9

Carson S61 Accident Takeoff from H44



Revised: 8 April 2010

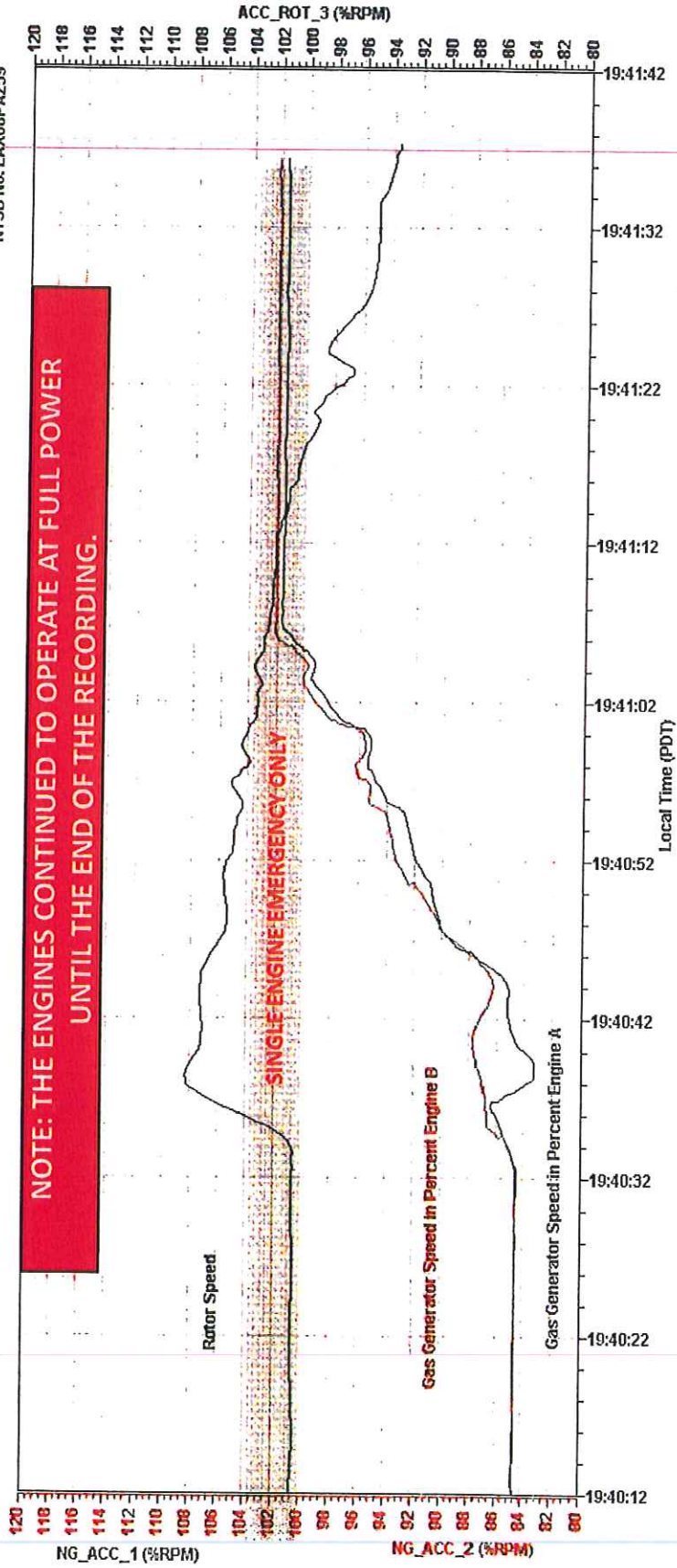
National Transportation Safety Board

END OF RECORDING

Carson S61 Accident Takeoff from H44

Location, Date: Redding California, 08/05/08

NTSB No. LAX08PA259



Revised: 8 April 2010

National Transportation Safety Board