

DOCKET NO. **SA- 516**

EXHIBIT NO. **13C**

**NATIONAL TRANSPORTATION SAFETY BOARD  
WASHINGTON, D.C**

**AIRPLANE PERFORMANCE STUDY**

**ADDENDUM NUMBER 1**

National Transportation Safety Board  
Office of Research and Engineering  
Washington, D.C.

April 17, 1998

AIRPLANE PERFORMANCE STUDY

ADDENDUM NUMBER 1 *DFL*

DCA-96-MA-070

**I. ACCIDENT**

Location: East Moriches, New York  
Date: July 17, 1996  
Time: 2031 Eastern Daylight Time (EDT)  
Aircraft: Boeing 747-131, N93119  
Carrier: Trans World Airlines (TWA), Flight 800

**II. GROUP IDENTIFICATION**

Chairman: Charles Pereira  
NTSB, RE-60  
Member: Joe Bracken  
Airline Pilots Association  
Member: Dave F. Warne  
TWA  
Member: Mark Sweepe  
Boeing Commercial Airplane Group  
Member: Don Wilson  
FAA Seattle ACO

**III. SUMMARY**

This addendum contains a listing of all radar data computer files used in generating the graphics contained in the Airplane Performance Study. The computer files listed can be obtained in compressed (PKZIP) ASCII format from the NTSB Office of Public Inquiries (phone number 202-314-6551).



Charles Pereira  
Aerospace Engineer/DFDR

Attachment

<u>FILENAME</u>	<u>RADAR</u>	<u>DESCRIPTION OF RADAR DATA</u>	<u>FILE SIZE</u>	<u>TIME OFFSET TO CORRELATE W/CVR TIMEBASE</u>
\\wa747\scndrysn\tracon\SEN0r125.csv	JFK ASR	TWA800 secondaries, 12.5 deg W mag var, x/y relative to ISP ASR	11KB	subtract 0.25 sec
\\wa747\scndrysn\tracon\SEN1r123.csv	EWR ASR	TWA800 secondaries, 12.3 deg W mag var, x/y relative to ISP ASR	10KB	subtract 0.25 sec
\\wa747\scndrysn\tracon\SEN2_97.csv	ISP ASR	TWA800 secondaries, 13.0 deg W mag var, x/y relative to ISP ASR	13KB	subtract 0.25 sec
\\wa747\scndrysn\tracon\SEN3r123.csv	HPN ASR	TWA800 secondaries, 12.3 deg W mag var, x/y relative to ISP ASR	11KB	subtract 0.25 sec
\\wa747\scndrysn\ctn\ny_97.csv	NY CTR	TWA800 secondaries, x/y relative to ISP ASR	2KB	subtract 2.25 sec
\\wa747\scndrysn\bsct\bos_97.csv	BOS CTR	TWA800 secondaries, x/y relative to ISP ASR	1KB	subtract 1.25 sec
\\wa747\scndrysn\orad\NIRD43.csv	NORAD Trevose, PA	TWA800 secondaries, x/y relative to ISP ASR	2KB	add 75.715 sec
\\wa747\scndrysn\orad\NIRD44.csv	NORAD Riverhead, NY	TWA800 secondaries, x/y relative to ISP ASR	2KB	add 75.715 sec
\\wa747\scndrysn\orad\NIRD47.csv	NORAD North Truro, MA	TWA800 secondaries, x/y relative to ISP ASR	2KB	add 75.715 sec
\\wa747\scndrysn\navy\Nyrp43.csv	NAVY Trevose, PA	TWA800 secondaries, x/y relative to Trevoese, PA	1KB	subtract 2.80 sec
\\wa747\scndrysn\navy\Nyrp44.csv	NAVY Riverhead, NY	TWA800 secondaries, x/y relative to Riverhead, NY	1KB	subtract 2.80 sec
\\wa747\scndrysn\navy\Nyrp47.csv	NAVY North Truro, MA	TWA800 secondaries, x/y relative to North Truro, MA	1KB	subtract 2.80 sec
\\wa747\otherac\scndrysn\tracon\jfk1414_97.csv	JFK ASR	AMTRANS 493 secondaries, 12.5 deg W mag var, x/y relative to ISP ASR	1KB	subtract 0.25 sec
\\wa747\otherac\scndrysn\tracon\isp1414_97.csv	ISP ASR	AMTRANS 493 secondaries, 13.0 deg W mag var, x/y relative to ISP ASR	1KB	subtract 0.25 sec

\\wa747\otherac\scndr\ys\nyt\tracon\hpn\1414_97.csv	HPN ASR	AMTRANS 463 secondaries, 12.3 deg W mag var, x/y relative to ISP ASR	1KB	subtract 0.25 sec
\\wa747\otherac\scndr\ys\nyt\ctr\1414_97.csv	NY CTR	AMTRANS 463 secondaries, x/y relative to ISP ASR	1KB	subtract 2.25 sec
\\wa747\otherac\scndr\ys\bos\ctr\1414_97.xy	BOS CTR	AMTRANS 463 secondaries, x/y relative to ISP ASR	1KB	subtract 1.25 sec
\\wa747\otherac\scndr\ys\nyt\tracon\jfk\2237_97.csv	JFK ASR	USAIR 217 secondaries, 12.5 deg W mag var, x/y relative to ISP ASR	2KB	subtract 0.25 sec
\\wa747\otherac\scndr\ys\nyt\tracon\isp\2237_97.csv	ISP ASR	USAIR 217 secondaries, 13.0 deg W mag var, x/y relative to ISP ASR	2KB	subtract 0.25 sec
\\wa747\otherac\scndr\ys\nyt\tracon\hpn\2237_97.csv	HPN ASR	USAIR 217 secondaries, 12.3 deg W mag var, x/y relative to ISP ASR	2KB	subtract 0.25 sec
\\wa747\otherac\scndr\ys\nyt\ctr\2237_97.csv	NY CTR	USAIR 217 secondaries, x/y relative to ISP ASR	1KB	subtract 2.25 sec
\\wa747\otherac\scndr\ys\bos\ctr\2237_97.xy	BOS CTR	USAIR 217 secondaries, x/y relative to ISP ASR	1KB	subtract 1.25 sec
\\wa747\otherac\scndr\ys\nyt\tracon\jfk\3004_97.csv	JFK ASR	TWA 900 secondaries, 12.5 deg W mag var, x/y relative to ISP ASR	1KB	subtract 0.25 sec
\\wa747\otherac\scndr\ys\nyt\tracon\ewr\3004_97.csv	EWR ASR	TWA 900 secondaries, 12.3 deg W mag var, x/y relative to ISP ASR	1KB	subtract 0.25 sec
\\wa747\otherac\scndr\ys\nyt\tracon\isp\3004_97.csv	ISP ASR	TWA 900 secondaries, 13.0 deg W mag var, x/y relative to ISP ASR	1KB	subtract 0.25 sec
\\wa747\otherac\scndr\ys\nyt\tracon\hpn\3004_97.csv	HPN ASR	TWA 900 secondaries, 13.0 deg W mag var, x/y relative to ISP ASR	1KB	subtract 0.25 sec
\\wa747\otherac\scndr\ys\nyt\ctr\3004_97.csv	NY CTR	TWA 900 secondaries, x/y relative to ISP ASR	1KB	subtract 2.25 sec
\\wa747\otherac\scndr\ys\bos\ctr\3004_97.xy	BOS CTR	TWA 900 secondaries, x/y relative to ISP ASR	1KB	subtract 1.25 sec
\\wa747\otherac\scndr\ys\nyt\tracon\jfk\5627_97.csv	JFK ASR	JET EX 18 secondaries, 12.5 deg W mag var, x/y relative to ISP ASR	1KB	subtract 0.25 sec

\\wa747\primaries\bosctr\apri97\Bospri2.xy	BOS CTR NAVY Trevose, PA	primaries, xy relative to ISP ASR	8KB	subtract 1.25 sec
\\wa747\primaries\navy\vp43\invypri_97.xy	NAVY Riverhead, NY	primaries, xy relative to ISP ASR	1KB	subtract 2.80 sec
\\wa747\primaries\navy\vp44\invypri_97.xy	NAVY North Truro, MA	primaries, xy relative to ISP ASR	2KB	subtract 2.80 sec
\\wa747\primaries\navy\vp47\invypri_97.xy	NAVY North Truro, MA	primaries, xy relative to ISP ASR	1KB	subtract 2.80 sec
\\wa747\primaries\nytracon\isp150.xy	ISP ASR	primaries 150-160 deg mag azimuth, 0030-0040 GMT	15KB	subtract 0.25 sec