

DOCKET NO. **SA-516**

EXHIBIT NO. **20I**

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

**FBI CHEMICAL STUDY OF RESIDUE  
(3 pages)**

1 (Rev. 2-21-91)

1- Jourdan  
1- Heckman  
1- Bishea

FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D. C. 20535

To: ADIC, New York

Date: April 25, 1997

FBI File No. 265A-NY-259028

Lab No. 61114052 S AD HK  
70207064 S AD HK  
70224039 S AD HK

Reference: Your communications dated February 6 and 19, 1997

Your No. 265A-NY-259028

Re: UNSUBS;  
EXPLOSION OF TWA FLIGHT 800;  
AOT-IT-EOD

Specimens received: February 7 and 24, 1997

Specimens received February 7, 1997 under cover of communication dated February 6, 1997 (70207064 S AD HK):

- Q128 One piece of splatter material (your item #MM1 CW-504 LBL-104)
- Q129 One piece of splatter material (your item #MM3 CW-504 LBL-106.72)
- Q130 One piece of splatter material (your item #MM4 CW-504 LBL-106)
- Q131 One piece of splatter material (your item #MM5 CW-114)
- NE8 One blade

265A-NY-259028-SUB LAB

Page 1

RJH:mrc (6)

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Specimens received February 24, 1997 under cover of communication dated February 19, 1997 (70224039 S AD HK):

- K3 One sample of fiberglass like material taken from floor board (your item #57-1)
- K4 One sample of foam like material taken from floor board (your item #57-2)
- K5 One sample of fiberglass like material taken from air duct (your item #59-1)
- K6 One sample of foam like material taken from air duct (your item #59-2)
- K7 One sample of fiberglass like material taken from air duct (your item #61-1)
- K8 One sample of foam like material taken from air duct (your item #61-2)

Results of Examination:

GENERAL INFORMATION:

This report provides the results of examinations conducted in the Chemistry Unit on specimens Q110 - Q116, Q128 - Q131, K3 - K8.

For a complete listing of specimens and the results of previous examinations please refer to previous report dated 3/26/97 (Lab. #60723031 S AD AR, 60730006 S AD RU, 60730007 S AD RU, 60806002 S AD ZG, 60909001 S AD AR RU, 61118011 S AD HJ, 61127057 S AD HK, 60727032 S AD AR, 60728031 S AD AR, 60804032 S AD AR, 60817031 S AD AR, 60818061 S AD AR, 60830005 S AD AR, 60912038 S AD AR, 61007055 S AD AR).

Examinations are continuing on Q25 - Q81 and Q109 in the Special Photography Unit. You will be advised of the results of these examinations in a separate report.

CHEMICAL ANALYSES:

Specimens Q110 - Q116 were examined microscopically. Red material and amber material from specimen Q110 and red material from specimen Q111 were further examined instrumentally, including Fourier Transform Infrared Spectroscopy, Pyrolysis-Gas Chromatography/Mass Spectrometry, and Scanning Electron Microscopy/Energy Dispersive X-Ray Analysis. The materials from Q110 and Q111 are consistent with a chlorinated, polymeric material, commonly used as a contact adhesive. Based upon the comparison examinations conducted, with noted differences, specimens Q110 - Q116 are consistent with a common origin.

Specimens Q128 - Q131 (FBI Laboratory #70207064) and specimens K3 - K8 (FBI Laboratory #70224039) were examined microscopically. Specimens Q128 - Q131 and specimens K6 and K8 were further examined instrumentally with Pyrolysis-Gas Chromatography/Mass Spectrometry and Fourier Transform Infrared Spectroscopy. Based upon the comparison examinations conducted, specimens Q128 - Q131 are consistent with having originated from the sources represented by K6 and K8, or a similar source.

Specimens K3, K5, K6 and K7 (70224039) ostensibly represent construction products that utilize fiber glass fabrics. These fabrics generally consist of woven and non-woven bundles of continuous-filament glass fibers. Specimens Q128 - Q131 (70207064) also contain continuous-filament glass fibers, but they cannot be specifically associated with specimens K3, K5, K6 and K7. The small size, limited amounts, and the altered and adulterated nature of specimens Q128 - Q131 preclude any further comparison.

DISPOSITION OF SPECIMENS:

The submitted specimens referenced in the above analyses will be returned to your office under separate cover via registered mail or equivalent.