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DL 100-10461
RPG:mja

Under date of December 20, 1963, the FBI Laboratory furnished the following information concerning a photographic examination requested by the Dallas Office, December 5, 1963:

Specimens received 12/6/63

K51 One Bell and Howell Zoomatic 8mm motion picture camera SN AS13486, obtained from Mr. Abraham Zapruder

Result of examination:

The K51 8mm motion picture camera has been tested to determine the running speed of this camera, and it has been determined that this camera when operated at normal "RUN" speed operates at 18 1/3 frames per second.

While it is not possible to establish accurately from the film the moment of impact of the first two shots, applying the above camera speed to the film previously submitted which was exposed by Abraham Zapruder and which recorded the assassination, it has been determined that the best estimate of the elapsed time between the first and third shots lies between approximately five and six seconds. It is noted that the President's car moves behind a signboard at about the time of the first shot, and the President's movements during this period are not observable. However, he begins to fall forward immediately upon emerging from behind the sign.

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DL 100-10461
RPG:gmf

Under date of December 27, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by the Dallas Office on December 13, 1963:

"Specimens received 12/20/63

K52 A replica sack made at the Texas School Book Depository Building from paper and tape available in the shipping room of the Texas School Book Depository

Result of examination:

It was determined that the paper and tape used for specimen K52 is different from the paper and tape used for the Q10 paper bag that was previously submitted in this case."

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DL 100-10461
RFG:mva

Under date of December 20, 1963, the FBI Laboratory furnished the following information concerning an examination requested by the Dallas Office on November 27, 1963:

Specimens received November 27, 1963

- Q228 Pamphlets entitled "The Crime Against Cuba" by Corliss Lamont (Dallas Item #303)
- Q229 Booklet entitled "The Socialist Workers Party" by Joseph Hansen (Dallas Item #305)
- Q230 Russian book dated 1962 at Sofia (Dallas Item #324)

Result of examination:

In these specimens certain letters, words and entire phrases have been excised.

No cryptographic significance could be attached to this material.

DL 100-10461
RFG:cv
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Under date of December 18, 1963, the FBI Laboratory furnished the following information concerning a firearms examination requested by the Dallas Office on December 10, 1963:

Specimens received December 12, 1963

- Q258 - Q261 Four 8.5 mm cartridge cases obtained from Mrs. VIRGINIA GOODWIN

Results of examination:

The four cartridge cases, Q258 through Q261, were compared with OSWALD's rifle, Kl. As a result of this comparison, it was determined that Q258 through Q261 could not have been fired in this rifle.

DL 100-10461
RPG:cv
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Under date of December 16, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by the Dallas Office on December 13, 1963:

Specimens received December 14, 1963

Q265 Brown paper envelope bearing handwritten address "LEE OSWALD 601 West Nassaus St Dallas Texas," postmarked "IRVING, TEX. 5 30 AM 1963 (date illegible)"

Q266 Accompanying portion of long, narrow paper bag and strip of brown corrugated paper

Result of examination

The papers of specimens Q265 and Q266 were found to differ in observable physical characteristics from the paper of specimen Q10, a wrapping paper in the shape of a large bag which was previously submitted and believed to have contained the assassination rifle.

50

COMMISSION EXHIBIT No. 2444--Continued

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DL 100-10461
RPG:mja

Under date of December 23, 1963, the FBI Laboratory advised as follows concerning a firearms examination requested by the Dallas Office, on December 11, 1963:

Specimens received 12/16/63

Q267 - Q331 Sixty-five cartridge cases

Results of examination:

The 65 cartridge cases, Q267 through Q331, were examined and two of them were found to be the same caliber as Oswald's rifle, K1. It was determined, however, that these two cartridge cases could not have been fired in Oswald's rifle.

51

COMMISSION EXHIBIT No. 2444--Continued

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DL 100-10461
RPG:mja

Under date of December 17, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by Confidential Informant Dallas T-3 on December 13, 1963:

Specimens received 12/16/63 from Confidential Informant, Dallas T-3

Q332 Transportes Frontera bus company passenger list covering a trip made by bus No. 340 from Mexico City to Laredo, Texas, 10-2-3-63, bearing the name "Oswald" in the space for seat No. 4

Result of examination:

It was concluded that the name of the passenger and the destination on Line 4 of Q332 were not written by LEE HARVEY OSWALD, whose known writing appears on K4 and K5 in this case.

Due to the limited amount of comparable writing, no conclusion was reached whether the name and destination on Line 4 of Q332 were written by the writer of other entries on this specimen.

52

COMMISSION EXHIBIT No. 2444--Continued

1DL 100-10461
RPG:mja

Under date of December 18, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by Confidential Informant, Dallas T-3 on December 11, 1963:

Specimens received 12/17/63 from Confidential Informant Dallas T-3

Qc333 Photocopy of page of registry book of Hotel Del Comercio, Calle Sahagun 19, Mexico City, with signatures of guests registering on September 27, 1963, Line 18 bearing signature "Lee Harvey Oswald"

Result of examination:

It was concluded that the Lee Harvey Oswald signature on Line 18 of Qc333 was written by LEE HARVEY OSWALD, whose known writing appears on K4 and K5 in this case.

53

COMMISSION EXHIBIT No. 2444-Continued

1DL 100-10461
RPG:mja

Under date of December 23, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by the Dallas Office, on December 5, 1963:

Specimens received 12/9/63

Q334 Torn portion of a sheet of paper bearing handwritten message beginning "Father on Sept. 26th I was" and ending ".....of a True Catholic. Thank you" and signed "Fabian McElroy"

Result of examination:

Q334 was searched in the Anonymous Letter File without effecting an identification. Copies have been added to this file for future reference.

No fingerprint cards have been located for persons using the names or aliases Fabian McElroy and Fabion McElroy.

It was concluded that LEE HARVEY OSWALD, K4 and K5, did not prepare the questioned handwriting on Q334.

COMMISSION EXHIBIT No. 2444-Continued

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DL 100-10461
RPG:mja

Under date of December 20, 1963, the FBI Laboratory advised as follows concerning a document examination requested by the New Orleans Office, on December 16, 1963:

Specimens received 12/18/63

Q335 Hand printed employment agency application #500188, obtained from the Commercial Employment Agency, 1001 National Bank of Commerce Building, New Orleans, La., dated 5/7/63

Q336 Agency Agreement dated 5/7/63, bearing signature "Lee H. Oswald"

Result of examination:

It was concluded that the questioned hand printing on specimen Q335 (exclusive of the handwriting and other notations in red on the front and back of this specimen) and the signature "Lee H. Oswald" on specimen Q336 were written by LEE HARVEY OSWALD whose known handwriting is designated as specimens K4 and K5, et cetera, in this case.

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DL 100-10461
RPG:mva

Under date of December 20, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by the Dallas Office on December 13, 1963:

Specimens received December 20, 1963

Q337 Four-page handwritten and hand printed interview record form of the Devilbiss Company, Toledo, Ohio, bearing signature "Lee H. Oswald"

Q344 White envelope bearing writing "New Orleans Public Library, New Orleans, La."

Q345 Accompanying letter beginning "Dear Sirs: Through a clerical error of yours..." and ending "... handling the returned books, yours Truly"

ALSO SUBMITTED: New Orleans Public Library gift acknowledgment card

Result of examination:

It was concluded that the OSWALD signature and other writing on Q337, except the hand printing under item 13 of Q337, were written by LEE HARVEY OSWALD, whose known writing appears on K4 and K5 in this case.

No conclusion was reached whether the hand printing under item 13 of Q337 was prepared by OSWALD because of variations which were not accounted for based on the available writings.

It was also concluded that the handwriting on Q344 and Q345 was written by LEE HARVEY OSWALD, K4 and K5.

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DL 100-10461
RPG:mja

Under date of December 20, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by the Dallas Office, December 14, 1963:

Specimens received 12/20/63

Q338 One sample of gummed paper tape from the home of Mrs. RUTH PAINE, Irving, Texas

Q339 One sample of gummed paper tape from the home of Mrs. RUTH PAINE, Irving, Texas

Result of examination:

The tapes Q338 and Q339 were found to be nonidentical to the gummed tape on the wrapping in the shape of a sack believed to have contained the assassination rifle.

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Under date of December 23, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by the Dallas Office, on December 14, 1963:

Specimens received 12/20/63

Q340 Hand printed "COTTON PICKIN' APPLICATION", dated October 4, 1963, bearing the signature "Lee H. Oswald"

Result of examination:

It was concluded that the signature "Lee H. Oswald," on the reverse side of specimen Q340 was prepared by LEE HARVEY OSWALD, whose known specimens are designated as K4, K5, et cetera.

58

COMMISSION EXHIBIT No. 2444--Continued

COMMISSION EXHIBIT No. 2444--Continued

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DL 100-10461
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Under date of December 20, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by the Dallas Office on December 13, 1963:

Specimens received December 20, 1963

- Q341 White correspondence-type envelope obtained from property of LEE and MARINA OSWALD at the home of Mrs. Ruth Paine, 2515 West 5th Street, Irving, Texas
- Q342 White airmail-type envelope obtained from property of LEE and MARINA OSWALD at the home of Mrs. Ruth Paine, 2515 West 5th Street, Irving, Texas

Result of examination:

The envelopes, Q341 and Q342, were examined for development of indented writing. No intelligible indentations were developed.

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Under date of December 26, 1963, the FBI Laboratory furnished the following information concerning a document examination requested by the Dallas Office on December 14, 1963:

"Specimens received 12/24/63

- Qc343 Photocopy of a United States Marine Corps Certificate of Service identification card in the name 'Alek James Midell'

Result of examination:

An examination of Qc343 discloses that this item is a photograph of a fraudulent and counterfeit card made directly or indirectly from the retouched negatives of a United States Marine Corps Certificate of Service identification card in the name of LEE HARVEY OSWALD, 1653230. These negatives are a part of Qc65a submitted previously."

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DEPARTMENT OF STATE
WASHINGTON

June 15, 1964

Under date of December 26, 1963, the FBI Laboratory advised as follows concerning a document examination requested by the Charlotte Office under date of December 18, 1963:

"Specimens received 12/24/63

- Qc346 Photocopy of two-page letter dated Oct. 3, 1956, first page handwritten, beginning 'I am sixteen years of age...' and signed 'Lee Oswald,' second page bearing hand printed notation 'SEND TO: LEE Oswald 4936 Collinwood Fort Worth, TEX.'
- Qc347 Photocopy of advertisement coupon of 'The Socialist Call 303 Fourth Ave. New York 10, N.Y.' bearing the hand printed name and address 'LEE Oswald 4936 Collinwood Fort Worth TEXAS'

Result of examination:

It was concluded that the questioned handwriting and hand printing on Qc346 and the questioned hand printing on Qc347 were prepared by LEE HARVEY OSWALD, whose known writing appears on K4, K5, and K13 in this case."

Dear Mr. Rankin:

Enclosed is a copy of a note from the Cuban Ministry of Foreign Affairs to the Swiss Ambassador in Cuba, together with a copy of a translation of the note by the Department's Division of Language Services. A copy of the covering note from the Swiss Embassy in Washington to the Department is also enclosed.

Sincerely yours,

Leonard C. Meeker
Leonard C. Meeker
Acting Legal Adviser

Enclosures:

As stated.

The Honorable
J. Lee Rankin,
General Counsel,
President's Commission on the
Assassination of President Kennedy,
200 Maryland Avenue, N.E.,
Washington, D.C.

COMMISSION EXHIBIT No. 2445