

**Topics for Discussion with Kodak
September 11, 1996**

I. Introduction: ARRB

- A. ARRB's goals and interests regarding photographic experts.
- B. Films at issue.
 - a. Originals now available.
 - b. Other films that might be obtained.

II. Response: Kodak.

- A. General observations.
- B. Discussion of types of tests that can be performed on 1960s film stock with respect to:
 - a. determination of camera originals
 - b. alterations
 - c. enhancements
- C. To what extent should ARRB attempt to secure other originals?

III. Zapruder Film.

Preliminary examination of the Zapruder film (and two Secret Service copies) to determine whether Kodak might be able to provide assistance regarding some or all of the following issues:

- A. Evaluation
 - a. Determination whether the film is the camera original.
 - b. Determination whether there have been any alterations of the film.

- c. Determination whether beginning of motorcade sequence contains any “inertial effect” (or blue tint)
- d. Determination of locations, extent of splices
- e. Determination whether the presidential limousine stopped

B. Means

In addition to suggestions that Kodak may have, the following may be of use:

- a. Evaluation of frame and edge numbers
- b. Evaluation of images between sprocket holes
- c. Comparison of Zapruder film with “Secret Service” copies

C. Tests

What kinds of tests could/should be performed. Would any of the possible tests harm the film stock?

D. Condition of the Zapruder film.

To what extent has the film deteriorated or been damaged over time?

E. Making a “state of the art” copy.

What recommendations does Kodak have for making the best possible copy of the Zapruder film? What technology would be required and what would the approximate costs be?

IV. Autopsy-related images.

- A. “Right posterior occipital” photographs (nos. 15, 16, 42, and 43). What tests might be performed to evaluate authenticity and whether there has been any alteration?
- B. Photographs of brain (seven black and white negatives and seven color positive

transparencies) . What useful information might Kodak provide regarding the format of film used (duplex holder versus film pack), type of film (Ektachrome or Ansco), authenticity, generation, etc.

- C. Roll of 120 film. What useful information might Kodak provide regarding this roll, including the type of film (is it Ektachrome E3 film, or some other type?), format, exposures, whether there are images (and how many) and whether they can be enhanced.
- E. X-rays. Are there any additional tests that could be performed that would assist in evaluating authenticity.

V. Robert Groden material.

- A. Nix and Muchmore films.

When were these prints made? From what sources?

- B. Groden video.

Were Groden's Nix and Muchmore films the source material for the video?

- C. Are any of Groden's Willis slides originals?