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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

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BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

| In the Matter of: | , |
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| TEXAS UTILITIES ELECTRIC COMPANY, et al. |) Dockets Nos. 50-445-2 and 50-446-2 |
| (Comanche Peak Steam Electric Station, Units 1 and 2) |) (Applications for) Operating Licenses) |

PREFILED TESTIMONY OF GEORGE W. CHANEY

- Q1. Please state your name.
- Al. George W. Chaney.
- Q2. By whom and where are you employed, Mr. Chaney?
- A2. I am the principal Questioned Document Examiner of James L. Lewis and Associates, 5934 Royal Lane, Suite 255, Dallas, Texas 75230.
- Q3. Please briefly describe your employment background.
- A3. I was a Special Agent with the United States Secret
 Service from 1954 to 1977, and worked in the San
 Antonio, Dallas, and Washington, D.C. field offices.
 From 1963 to 1969, I was Assistant Special Agent in
 Charge of Personnel and Training. From 1969 to 1974, I
 was Assistant Special Agent in Charge of the Dallas
 Field Office. From 1974 to 1977, I was Special Agent in
 Charge of the E1 Paso Field Office. I retired from the
 Secret Service in February, 1977.

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- Q4. Have you had any training in the examination of documents?
- A4. Yes. As a Special Agent, I attended 120 hours of the Secret Service's Questioned Document School. I later taught at the Questioned Document School, in the Training Division.
- Q5. Did your employment with the Service include work with questioned documents?
- A5. Yes, I worked with documents extensively as a Special Agent. My duties included the investigation of forgeries and alterations of United States Treasury checks, Savings Bonds, and the counterfeiting of United States currency and other obligations. I also investigated anonymous and threatening letters to the President and other dignitaries. As Assistant Special Agent in Charge of the Dallas Field Office, and as Special Agent in Charge of the El Paso Office, I was directly responsible for all forgery and other document investigations assigned to those offices. During my work as a Special Agent, I reviewed and examined thousands of documents for forgery or alteration.
- Q6. When did you begin working with James L. Lewis and Associates?
- A6. In March, 1977.
- Q7. Please describe your work with Lewis and Associates.

- A7. As a Questioned Document Examiner, I examine documents, such as deeds, wills, promissory notes, checks, leases, and anonymous writings, for forgery, alteration, verification of typing, and other attributes. I have examined thousands of documents during my employment with Lewis and Associates.
- C8. Have you testified regarding documents in any judicial or administrative proceedings?
- A8. Yes. As a Special Agent with the Secret Service, I testified numerous times in criminal cases as a document expert. More re tly, I have testified in State and Federal courts in numerous cases involving questioned documents.
- Q9. Mr. Chaney, I show you two documents marked as

 Attachments 1 and 2 to your testimony. Have you been asked to examine the originals of those documents?
- A9. Yes. On October 2, 1984, I examined the originals of these documents under a microscope. I also directed the photography of aspects of two of the documents.
- Q10. Did you add any markings to the documents identified as Attachments 1 and 2?
- AlO. My photographer made certain marks on the documents, which are copies of the originals, to identify the frame numbers of the film. On Attachment 1, for example, next to lines 5 and 6 on the right-hand side,

- my photographer wrote "42" and "43" with arrows, to identify the frame number and item that he photographed.
- Qll. Mr. Chaney, please identify Attachment 3 to your testimony.
- All. Attachment 3 is an enlarged print of part of frame 43, showing a portion of lines 5 and 6 of the original of Attachment 1.
- Q12. Please identify Attachment 4 to your testimony.
- Al2. Attachment 4 is an enlarged print of part of frame 22, showing an area on the left-hand side of the original of Attachment 2.
- Q13. Mr. Chaney, were you given any other documents in connection with your examination?
- Al3. Yes. I also examined Attachments 5 and 6 to my testimony.
- Q14. With respect to the original of Attachment 1, what were you asked to examine?
- Al4. I was asked to examine the area on lines 5 and 6 of the document where the dates "1/14/84" had been corrected to read "1/17/84." Specifically, I was asked to determine whether the "17" appearing above the crossed-out "14" on each line was made by the same person who wrote the full entries on those two lines, and whether the "17" above the crossed-out "14" was made with the same writing instrument as the other

- entries. I was also asked whether the initials and dates appearing immediately below the signatures and dates on lines 5 and 6 were in the same hand, and by the same writing instrument, as the entries on lines 5 and 6. Finally, I was asked whether the line-out of the "14" on each line was performed with the same writing instrument as the other entries on those lines.
- Q15. Mr. Chaney, do you have an opinion as to whether all of the writing appearing on lines 5 and 6, as enlarged on Attachment 3, was performed by the same person?
- Als. Yes. Based on my microscopic and visual examinations, it is my opinion that all of the writings on lines 5 and 6 as shown on Attachment 3 were made by "JStanford," assuming that this is the person who made these entries. By "all of the writings," I mean the original dates of "1/1'/84," the cross-out bar through the "14s," the "17s" above the "14s," the initials "JS," and the dates "1/17/84" next to the initials.
- Q16. On what do you base your opinion?
- Al6. The signature "JStanford" on lines 5 and 6 is distinctive, and is repeated at several other places, both on Attachment 1 and on Attachment 5. The initials "JS" that appear immediately below lines 5 and 6, as shown on Attachment 3, conform to the "J" and "S" of the signatures. The intials "JS" also appear at other places on Attachment 1, in the same handwriting.

As to the dates, both the "8" and the "4" of the "84" in this individual's writing are distinctive. As clearly shown on Attachment 3, each of the "8s" is formed similarly, especially as to the opening in the upper right-hand corner in each of the "8s," top to bottom. The "8s" at other places next to the signature "JStanford" or initials "JS" elsewhere on Attachment 1 and on Attachment 5 reflect the same similarities. The "4s" are also similar, consisting essentially of a check mark with a downstroke to complete the "4."

The "7s" also share points of similarity.

Referring to the "7s" on Attachment 3, each "7" tends
to come to a point, or sharp angle, where the writer
makes the downstroke. This characteristic also appears
in the "7s" on Attachment 5. The top three "7s" on
Attachment 3 also show a tic at the point where the
writer began the figure; the tic is a short downstroke
in the upper left-hand corner of the figure. This tic
is more apparent from microscopic examination than in
Attachment 3, the enlargement.

The same tic appears in more pronounced fashion in the bars that cross out the "14s" in the "1/14/84" dates on lines 5 and 6 of Attachment 1. These tics clearly appear on Attachment 3, the enlargement.

- Referring to Attachment 1, the same tic appears in the bottom bar of the Roman "II" appearing to the right of the signatures and dates on lines 3, 4, 5 and 6.
- Q17. Mr. Chaney, do you have an opinion as to whether the signatures, initials, dates, and cross-out bars on lines 5 and 6 were written with the same instrument?
- Alf. All of these markings were made with a ball-point pen.

 The color is uniform for each of the writings. I

 cannot, however, determine whether all of these

 writings were made by the same pen.
- Q18. Are the bars through the "14s" and the "17s" above the crossed-out "14s," significantly different from the other writings on lines 5 and 6 of Attachment 1?
- Al8. As shown on Attachment 3, the bars through the "14s" and the uppermost "17" are somewhat darker in shade than the other writings on lines 5 and 6. This was caused by the writer's bearing down more heavily when he made these entries. This can be seen from the back side of the original of Attachment 1, where the indentation of the bar through the "14" on line 5 is plainly visible. The bar through the second "14" is not as apparent. The "17" above the crossed-out "14" on line 6 is not that much different from the "17" immediately above it. In my opinion, the principal differences between the bars through the "14s" and the

- "17s" above them and the other writing on lines 5 and 6 is that the writer pressed down more firmly as to some of these markings.
- Q19. Is there any reason, based on your experience as a document examiner, why the writer pressed down more firmly in marking through the "14s"?
- Al9. Yes. Almost anyone who is crossing out something on any document tends to do so firmly, more firmly than that person normally writes.
- Q20. Mr. Chaney, what were you asked to examine with respect to Attachment 4?
- A20. I was asked to examine the crossed-out "13s" and the "14s" immediately above them on lines 3 and 4, and to determine whether the writing instrument used to make those entries was the same instrument used on lines 5 and 6 of Attachment 1. I was also asked to determine whether the handwriting is the same.
- Q21. Mr. Chaney, do you have an opinion as to whether the writing instrument used in the entries you have described on Attachment 4 is the same instrument used in the entries on lines 5 and 6 of Attachment 1?
- A21. Yes, I do.
- Q22. What is your opinion?
- A22. As I have testified, all of the entries on lines 5 and 6 shown on Attachment 1 were made with a ball-point pen. The bars through the "13s" and the "14s" above

them shown on Attachment 4, which is an enlargement of Attachment 2, were made with a fluid ink pen. The entries on Attachment 4 were made with a fountain pen, a felt-tip pen, or a pen with a similar point, such as a Pentel. The differences are apparent by comparing Attachments 3 and 4. Attachment 4 also shows that the edges of the bars and the "l4s" are not sharply defined. This feature, which is even more apparent in a microscopic examination, is caused by the fluid ink soaking into the paper. All entries in Attachment 3, in contrast—including the bars—are sharply-edged. That is characteristic of a ball—point pen.

- Q23. Do you have an opinion as to whether the bars and "14s" on Attachment 4 were made by the same person who made the entries on lines 5 and 6 of Attachment 1?
- A23. In my opinion, the individual who made the entries on lines 5 and 6 of Attachment 1 was not the same person who marked through the "13s" and wrote the "14s" on Attachment 4. I base that opinion principally on the differences between the "4s" on the two documents.

 Attachment 3 reflects a uniform formation of the numeral "4," which appears there numerous times in the same hand. The "4s" on Attachment 4 are formed differently.
- Q24. Does that conclude your testimony?
- A24. Yes, it does.

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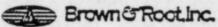
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Post Office Box 1001, Clen Rose, Texas 75043

QUALITY ASSURANCE DEPARTMENT VISUAL EXAMINATION CHECKLIST

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| | QUALITY ASSURANCE DEPARTME |
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No rejectable indications noted

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Inspector

Results Reject Certification Level Date 1-17-54

DOCKETED

UNITED STATES OF AMERICA 84 001 23 P4:02

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of

TEXAS UTILITIES ELECTRIC

COMPANY, et al.

(Comanche Peak Steam Electric Station, Units 1 and 2)

Docket Nos. 50-445-2 and 50-446-2

(Application for Operating Licenses)

CERTIFICATE OF SERVICE

I hereby certify that copies of the foregoing document in the above-captioned matter was served upon the following persons by hand-delivery,* overnight delivery,** or by deposit in the United States mail,*** first class, postage prepaid, this 23rd day of October, 1984:

*Peter B. Bloch, Esq.
Chairman, Atomic Safety and
Licensing Board
U.S. Nuclear Regulatory
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Washington, D.C. 20555

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*Herbert Grossman, Esq.
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Regional Administrator
Region IV
U.S. Nuclear Regulatory
Commission
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Suite 1000
Arlington, Texas 76011

***Chairman, Atomic Safety and Licensing Appeal Panel U. S. Nuclear Regulatory Commission Washington, D.C. 20555

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Board Panel
U. S. Nuclear Regulatory
Commission
Washington, D. C. 20555

McNeill Watkins II

cc: Homer C. Schmidt John W. Beck Robert Wooldridge, Esq.