## ORIGINAL

## UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

In the matter of:

TEXAS UTILITIES ELECTRIC COMPANY, et al

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

Docket No. 50-445 50-446

Deposition of: Gilbert Smith Keeley

Location: Glen Rose, Texas

Date: Tuesday, July 10,1984

Pages: 36,187-36,216

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TAYLOE ASSOCIATES

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## UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

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BEFORE THE ATOMIC SAFETY & LICENSING BOARD

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In the matter of:

COMPANY, et al.

TEXAS UTILITIES ELECTRIC

Station, Units 1 and 2)

(Comanche Peak Steam Electric

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Glen Rose Motor Inn Glen Rose, Texas

: Docket Nos. 50-445

50-446

July 10, 1984

Deposition of: Gilbert Smith Keeley called by examination by counsel for the Applicant taken before Marilyn Nations, Court Reporter, beginning at 6:15 p.m., pursuant to agreement.

Whereupon,

was called as a witness and, having been first duly sworn, was deposed and testified as follows:

GILBERT SMITH KEELEY

MR. HARTMAN: I would like to begin this deposition by making a few brief remarks.

My name is Sanford Hartman. I am a member of the law firm of Bishop, Liberman, Cook, Purcell & Reynolds, counsel for Texas Utilities, the applicant in this proceeding. I appear here today in that capacity and as an attorney for Mr. Keeley, a TUGCO employee.

Before proceeding further I wish to point out that Mr. Keeley is appearing voluntarily and that he is not under subpoena. Mr. Keeley's testimony has been requested from the applicant by CASE, intervenor in this proceeding, on the topics specified in CASE's letter to Leonard W. Belter dated June 27, 1984, a copy of which has been marked for identification by the reporter and appended to the transcript of Mr. Vega's deposition as Appendix A.

The applicant has already noted objections to the deposition procedures and the schedule ordered by the Board and it intends in no waiver of those objections by Mr. Keeley's appearance today.

Thank you

MR. FIRFO: I would simply note for the 2 record the same objection -- the same observation I had 3 earlier on the part of the staff that we do not consider applicant's attorney to be representing Mr. Keeley in a 5 personal capacity. 6 MS. SAGINAW: I concur and I would also like 7 to reserve other factual objections until a later time. 8 EXAMINATION BY MS. SAGINAW: 10 Mr. Keeley, my name is Jane Saginaw and I 11 represent the intervenors in this case. I believe you 12 told me before the deposition began that you didn't bring 13 a resume with you here today; is that right? 14 That's correct, yes. 15 I'm going to have to develop with you, 16 if you will, your resume for the record; okay? 17 Yes. 18 Would you state your full name for the record? 0 19 My full name is Gilbert Smith Keeley. A 20 And where do you presently reside? C 21 2421 Sir Guy, Grand Prarie, Texas. 22 Is that s-u-r? 0 23 S-i-r G-u-y. S-i-r. Two words. In Grand Prarie? 0 25 Right. A

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- 1	Q	How long have you lived there?
2	A	A year last May.
3	Q	Where did you live before you moved to
4	Sir Guy?	
5	A	Jackson, Michigan.
6	Q	Do you have an address for us there?
7	A	Yeah. 6108 Crest Road in Jackson.
8	Q	And how long did you live there?
9	A	I lived there 21 years.
10	Q	Where were you born, Mr. Keeley?
11	A	Lincoin, Nebraska.
12	Q	Did you go to high school there?
13	A	I went two years to high school there,
14	graduated	from Topeka, Kansas High School.
15	Q	Did your family move to Topeka?
16	A	Yes.
17	Q	And did you go directly from high school to
18	university	or college?
19	A	Yes.
20	Q	Where did you go?
21	A	I went to Kansas City, Missouri Junior
22	College.	
23	Q	Did you graduate from there?
24	A	Yes.
25	Q	When did you enter Kansas City, Missouri

•

1	Junior College	?
2	A	Fall of 1940.
3	Q	And when did you graduate?
4	A	1942.
5	Q	And you got what kind of degree?
0	A	Associate of Science degree.
7	Q	Associate?
8	A	Of science, yes.
9	Q	Is that a special two-year program?
10	A	No, that's a general science degree in
11	engineering.	
12	Q	But you went through it in two years?
13	A	Yes. At the junior college.
14	Q	Then did you go on to another college?
15	A	Yes.
16	Q	Where did you go?
17	A	The University of Missouri at Rala.
18	Q	I am assuming that Kansas City, Missouri
19	Junior College	was in Kansas City?
20	A	That's correct.
21	Q	And then you moved and you went to the
22	University of 1	Missouri. What did you study there?
23	A	Electrical engineering.
24	Q	And did you enter in 1942?
25	A	No. I entered there in 1946.

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1	Q What did you do between the time you
2	finished up at Kansas City, Missouri Junior College and the
3	time you entered the University of Missouri?
4	A I was in the Coast Guard, U.S. Navy.
5	Q From the whole time of 1942 to 1946?
6	A That's correct.
7	Q Where were you stationed?
8	A I as stationed with the U.S. Coast Guard
9	Academy as a cadet and then I enlisted in the U.S. Navy.
10	I was stationed at Great Lakes Training Station for boot
11	camp. Then at the repair base in San Diego. And I was
12	stationed aboard a repair ship for about six months.
13	Q In California?
14	A No. Overseas.
15	Q Overseas. Where were you?
16	A Japan.
17	Q And when you came back in 1946 that is when
18	you entered the University of Missouri?
19	A The fall of '46, yes.
20	Q And when did you graduate from the University
21	of Missouri?
22	A 1948.
23	Q And you spent those two years studying
24	electrical engineering?
25	A That's correct.

1	Q	Did you work while you were in school in
2	Missouri?	
3	A	No.
4	Q	Where did you move in 1948 or did you
5	move in 1948 w	hen you graduated from the University of
6	Missouri?	
7	A	Yes. I moved to Schnectedy, New York.
8	Q	For what reason?
9	A	I worked for General Electric Company.
10	Q	In what capacity?
11	A	As a test engineer.
12	Q	What were your job duties as a test
13	engineer for G	E ?
14	A	We tested various pieces of equipment. I
15	had testing ex	perience in induction motors, electronic
16	controls, airc	raft armament controls.
17	Q	How long did you stay there?
18	A	I was there approximately one year.
19	Q	Until 1947?
20	A	No. '49. I graduated in '48.
21	Q	Oh, I'm sorry. Okay.
22		And in 1949 what did you move on to?
23	A	I went to work for Pacific Gas & Electric,
24	California.	
25	Q	Where in California?

1	A Let's see. I worked in San Francisco,
2	Moss Landing, Contra Costa.
3	Q Did you move around in the same job?
4	A Yes, that's correct.
5	Q What was your job for PG&E?
6	A I started out performing startup work on
7	steam plants and worked up to become electrical maintenance
8	foreman in a steam plant at Contra Costa.
9	Q Can you go through with me real briefly
10	in resume type fashion what your job titles were at PG&E
11	and when you moved from job to job within PG&E?
12	A ell, I was initially relay type electrician
13	for approximately two years.
14	Q 1949 to 1951?
15	A 1951. ANd then became electrical maintenance
16	foreman from '51 through most of '55.
17	Q And in both of those jobs you moved around
18	California quite a bit?
19	A No. Just the three places I mentioned.
20	Q Did you live in San Francisco?
21	A Yes.
22	Q What happned in 1955?
23	A 1955 I went to work for Westinghouse Atomic
24	Power Division in Idaho. At the Navy reactor facility.
25	Q Where in Idaho?

1		21 MIN (1917) - [1] 1 MIN (1917) - [1]
1	A	Outside of Idaho Falls.
2	Q	And what was your job title there?
3	A	Initially
4		MR. HARTMAN: Can we go off the record for
5	a moment?	
6		MS. SAGINAW: Yes.
7		(Discussion off the record.)
8		BY MS. SAGINAW:
9	Q	Okay. Before we took the little break
10	there you were	telling me what your job position was
11	initially when	you went to go to work for Westinghouse.
12	A	All right. Initially I was hired as a
13	reactor engine	er who had a responsibility for reactor
14	operations, the	e instrumentation and control of the reactor,
15	and to train a	nd qualify Navy personnel in those various
16	areas.	
17	Q	Was this a civilian facility?
18	A	No. This was a Navy reactor facility.
19	Q	How long were you in that position from '55
20	A	I was in that position approxijmately a year
21	and a half and	then I was transferred into the plant
22	engineering gro	oup.
23	Q	1957?
24	A	Yeah. Early '57.
25	Q	What is a plant engineering group?

176	[6] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4
1	A Plant engineering group is responsible for
2	design, procurement, installation of equipment in the
3	plant.
4	Q You are talking the same reactor?
5	A Yes.
6	Q And how long did you stay in that group?
7	A Well, I stayed there for approximately
8	six months when I was transferred to the Shippingport
9	Nuclear Power Plant which is a commercial reactor.
10	Q Where is that?
11	A That is in Shippingport, Pennsylvania.
12	To run the preoperational tests, construction type checkout
13	of equipment and to train and qualify the Duchesne Light
14	Company reactor operators.
15	Q But you were still working for Westinghouse
16	then?
17	A That's correct.
18	Q A different facility.
19	And how long did you work at the Shippingrort
20	plant?
21	A We were there approximately six or seven
22	months.
23	Q Was that largely a supervisory position?
24	A It was supervisory as far as qualifying people
25	and that, although I had the responsibility to serve as

1	chairman of the	board of review for the reactor operators.
2	Q	What did that entail?
3	A	That entailed initially setting up a
4	training progra	am and then conducting interviews and
5	questions of pe	ersonnel to determine how well they were
-6	qualified.	
7	Q	So you had people under you who would
8	actually do the	interviewing?
9	A	No, I did the interviewing.
10	Ó	You did the interviewing?
11	A	That's correct.
12	Q	Okay. And then you said you did that for
13	about six or se	even months?
14	A	Six or seven months.
15	Q	And then what did you do? We are still in
16	1957; right?	
17	A	No. This went on through the first part of
18	1958.	
19	Q	Okay.
20	A	Then I was transferred back to Idaho.
21	Q	Same plant?
22	Α	Still with Westinghouse.
23		No, on a large ship prototype Navy nuclear
24	plant, carrier	prototype.
25	Q	I am sorry. Would you repeat that?

	A Carrier, aircraft carrier prototype.
2	Q With nuclear facility on board?
3	A Yes.
4	Q And what did you do in that job? What was
5	your job title when you returned to Idaho?
6	A My job title there was I can't remember
7	the exact title. I was supervisor of the reactor
8	engineers. Again, who had responsibility for the reactor
9	operations, training, qualifying Navy personnel and doing
10	initial construction checkout on instrumentation and control
11	Q Did you ever go back and get any kind of
12	advanced degree in engineering?
13	A I had 18 hours credit from the University
14	of Idaho towards a master's but I didn't finish that
15	since I moved.
16	Q What were those 18 hours in? What courses?
17	A They were in electrical engineering
18	instrumentation and control.
19	Q So your experience in the nuclear aspect of
20	engineering was on the job training; is that right?
21	A On the job. I don't understand the
22	question.
23	Q You became familiar with nuclear operations
24	through your work at
25	A And through special courses given by

Westinghouse. What kind of special courses did you go 3 through? Well, you went through systems courses 5 and they taught you the systems in the plant; they taught 6 you reactor theory. 7 Did you actually go to an education type 8 environment to take those or would they be done on your job? Did you go away for a month or two and study? 10 No. These were done on the job as a part 11 of the Navy training program. 12 How long did you stay a supervisor 13 reactor engineer? 14 That was approximately two years. 15 And where did you go from there? 16 From there I was made supervisor of the 17 instrument shop. 18 0 Same location? 19 A Same location. 20 And what did that entail? 0 21 That entailed spervising approximately 22 12 instrument technicians who were responsible for 23 maintaining the test equipment in the plant. And 24 assisting Navy personnel on plant instrumentation and 25

controls.

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1	Q	Was that a promotion from your job as
2	super, reactor	engineer?
3	A	Yes. That was a promotion.
4	Q	And when were you promoted to that position?
5	A	Well, it was 1960, something like that.
6	Early '60s:	
7	Q	How long did you stay in that position?
8	A	I stayed in chat position for approximately
9	a year until th	ney moved me into chief operator training.
10	Q	Of training, did you say?
11	A	No. Chief operator, training, training to
12	be a chief oper	ator. Which chief operator has cmplete
13	responsibility	for the operations of the plant. All
14	personnel come	under him.
15	Q	That was a formalized training program
16	within Westingh	ouse?
17	A	Yes, it was another formalized training
18	program.	
19	Q	And what kind of training were you given?
20	A	Again given training in all systems in
21	water chemistry	and all instrumentation, all the controls,
22	reactor physics	, emergency procedures, things like that.
23	Q	How long did the training period take?
24	A	Well, that took approximately eight months,
25	something like	that.

1	Q	And you then became a chief operator?
2	A	No. I went to that point and then I left
3	the company,	transferred not transferred but I left the
4	company to g	o to work for Consumers Power Company in 1961.
5	Q	Okay. 1961. After completing the
6	training pro	gram you went with Consumer Power?
7	A	Right.
8	Q	And where is that?
9	A	That is in Jackson, Michigan.
10	Q	And what was your job description when you
11	went there?	
12	A	I was hired as a senior engineer to be
13	responsible	for running the preoperational test program
14	on the Big R	ock Point plant which is up in Northern
15	Michigan; a	commercial plant.
16	Q	You said Big Rock Point.
17	A	Big Rock Point plant.
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After completing the preoperatinal test A program, I obtained a cold livense as a reactor operator and functioned temporarily as a Shift Supervisor. This covered a period of two years.

So that takes us through 1963 I was transferred to Jackson, which is the home office, and I worked in licensing areas as a Senior Engineer dealing with the Staff discussing various licensing aspects on all systems in the plant with the Staff, the NRC Staff.

I am trying to to determine how your job position changed from 1961 when you first went to work for Consumer Power and 1963. You went to a more supervisory role, is that --

No. I was still a Senior Engineer.

How long did you stay in that position?

It seems like it was approximately two years or something like that, and I was moved into a supervisory role taking over supervision of a small nuclear engineering group for the compay in the home office. This involved reviewing drawings and specifications. At this time, we were taking a look at another nuclear plant.

Where was that?

Pardon?

Palisades. So this also involved writing

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up technical specifications for the nuclear steam supply system and fuel -- nuclear fuel.

Okay. What did you do after that?

I think -- I can't remember the exact period of time -- I think that existed for approximately a little over two years, maybe three years.

Until 1967 or '68?

Right. And then they made me Manager of Plant Engineering, which had under it not only the Nuclear Engineering Group, but also a small group of specialists in the fields of metallurgy, electrical instrumentation and control.

Let me ask you, when you say "they made me," --

The promoted me. A

They promoted you.

Yes. A

You were willing to take these promotions, were you not?

Yes.

Okay. 0

Civil structural also came within the This group again reviewed drawing specifications and in some cases wrote up specifications, was responsible for assisting project-type people on Palisades and

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and eventually Midland in putting together the preliminary safety analysis report.

MC CACTNAM.

MS. SAGINAW: Let's go off the record.

(Discussion off the record.)

BY MS. SAGINAW:

Q Okay, Mr. Keeley, I think we were at 1968 when you were the Manager of Plant Engineering for Consumer Power in Jackson, and we were beginning to talk about projects that you were working on in that capacity.

Do you want to restate for the record what those projects were?

A I worked on the Palisades project on obtaining the operating license for that and on the Midland project obtaining the construction permit for Midland.

Q Okay. And where did you go from there?

A All right. I remained in that job until

1973 when they transferred me to become -- I can't

remember -- it was either Manager of QA or Director

of Quality Assurance for Engineering and Construction.

Q And what did you do in that capacity?

A Well, in that capacity I supervised

Quality Assurance personnel during the preliminary
engineering and construction phases of Midland.

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I trained people, saw that they were qualified for various industry codes and standards and wrote up a corporate topical QA program.

- Q You helped them in designing their QA program; is that what you said
  - A Yes.
  - O Was the Midland project licensed?
- A The Midland project was licensed in 1972, if I remember right. The construction permit was granted.
- Q So that was while you were working on it?
  - A Oh, yes.
- Q All right. How long did you stay in that position as Manager of QA?
- A Okay. I stayed in that position for two years until 1975 when I became Manager of the Midland project. That job entailed responsibility for licensing, engineering, construction, costs and scheduling.
- Q So it's fair to say that that actually was a managerial type job?
  - A Yes.
  - Q Or supervisory type job.
  - A No. It was a manager. These were manager

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jobs, in my opinion, up in engineering as well as QA.

A Okay. And you worked only on the Midland plant at that point in 1975.

A That's correct.

Q And how long did you stay as Manager of the Midland project?

A I stayed until May of last year.

Q And what happened in May of 1983?

A I took early retirement and came to work for TUGCO.

(Pause.)

Q What were the circumstances surrounding that change? You had been with Consumer Power for how many years at that time?

A Twenty -- '61 through '83 -- twenty-two years roughly.

Q Why did you decide to retire early and then thake another job in another location?

A Well, I want to give several reasons.

One of my boys and his wife live in this area. We wanted to get into a warmer climate. And that was, you know, the basic reason.

Q Did you have the job with TUGCO before you moved down here, or did you move down here and

No. I had the job with TUGCO. A mgc 14-6 Before you moved? 3 Correct. 4 When you began working there in May 5 of '83, what was your job title when you started 6 there? 7 I was Senior Engineer working for Dick 8 Kahler in the Engineering Adminstrative Section. 9 (Pause.) 10 Did you work with Mr. Spangler? 11 Yes, we were basically in the same group. 12 Did you work together on projects when 13 you first got there in 1983? 14 I don't know what you mean by projects. 15 Well, did you have -- like you worked 16 together on this project, the report that was published 17 on August 19, 1983. I'm wondering if there are 18 other kinds of projects like that that you had ever 19 worked on together? 29 Well, eventually I was made Chairman 21 of the TUGCO Operations Review Committee, and Mr. 22 Spangler, before he got into Quality Assurance, 23 assisted in preparing discussions that we had with the Operations Review Committee.

I'm a little bit confused. Were you

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1 co-workers, or would he report to you? 2 No, he never reported to me. He always 3 reported to Dick Kahler. 4 Q So you would both report to Kahler 5 That's correct. 6 Different component parts --7 That's correct. 8 -- at the same time. 9 That's correct. 10 When did you become Chairman of the 11 Operations Review Committee? 12 A I think that was approximately six months 13 ago, around the first of the year, 1984. 14 Would you consider that a promotion 15 from your job as Senior Engineer? 16 A Yes. They also at that time promoted 17 me to Principal Engineer. 18 As Chairman of the Operations Review 19 Committee you were Principal Engineer? 20 That's correct.

Q It's the same -- it's a co-title?

A Well, no. Principal Engineer is an engineering title that has with it more responsibility than a Senior Engineer, and when they made me Chairman,

they also promoted me to Principal Engineer.

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Q Do you know the circumtstances surrounding that promotion? Do you know why you were promoted?

Did you apply for it, or did someone suggest -recommend you for the job?

A Well, I think Mr. Clements felt that

I was qualified to do the job. He previously -
or he, up to that time, had been Chairman of the

Operations Review Committee, and hefelt that there

should be, you know, a little bit more of a separation

from himself to this committee, so he was looking

for somebody to take over that chairmanship.

Q Did they create this position for you, or was someone else in that position before you.

A No. Mr. Clements was Chairman of the Operations Review Committee?

Q I see. And then he moved up, and you moved into his place.

A Well, no, he didn't move up; he, you know, still is Vice President of Operations. But I think he felt a need to have more independence from his direct line responsibilities for plant operations.

Q So you took over part of his -- the area that he was at one time --

A That's correct.

Q Do you know if Mr. Kahler recommended you for that job?

A I don't know.

Q Was there any formal recommendation?

Did he write you a letter, or did he introduce you?

A I don't know of any formal letter from Mr. Kahler to Mr. Clements, no.

Q Did you ever talk to Mr. Kahler about the job, the new job?

A Oh, yes. Mr. Kahler is Secretary of the Operations Review Committee, so, you know, we talk all the time.

Q So are you and Mr. Kahler now -- I don't quite know the terminology, but would you say you are on equal grounds in the hierarchy at TUGCO?

A Well, no, I wouldn't say equal grounds.

I still report to Mr. Kahler --

Q You do.

A -- for day-to-day activities. He gives me jobs to perform, things like that, except in the area of the Operations Review Committee, I am chairman there --

Q You're autonomous there.

A -- and responsible for the meetings, the subjects of the meetings and the conduct of

the meetings.

Q So you reported to Mr. Kahler when you

first arrived at TUGCO as a Senior Engineer in May

of '83, and you still report to him in certain areas,

but in other areas, you are completely autonomous

6 now.

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A That's correct.

Q Okay. At the time that this report was issued -- I'm referring to the report of August 19, 1983, you were working under Mr. Kahler as a Senior Engineer?

A That's correct.

(Pause.)

Q Have you ever testified before, Mr.

A Yes.

Keeley?

Q In what circumstances? Or have you testified more than once?

A I testified in the Palisades operating permit hearing.

O When was that?

A That was approximately 1970.

Q And were you a witness in that?

A Yes.

Q And who were you called by?

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A Principally in the QA area, because

the QA Supervisor for Consumers reported to me.

Although I hadn't been made Director of QA, I was still Manger of Plant Engineering. But the organization at that time, the man in charge of QA reported to me.

Q Okay. And when did you testify after that?

A I testified in 1976 on the show-cause hearing -- oh, wait a minute. There was one before that.

I testified in 1974 on the show-cause -and I guess I -- no, I can't say show-cause. It
was a QA hearing on Midland, whether the QA program
on Midland was adequate.

And then in 1976, I testified during the Circuit Court of Appeals hearing on Midland, whether construction should be continued or stopped, I forget the legal terms for it.

Q Cease and desist, maybe?

A No, it's something else.

Q Okay.

A I think that's all of the hearings that I testified at.

Q You have never testified outside of your work. You have never personally been involved inlitigation where you were called as a witness.

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A You mean in civil litigation?

Q Uh-huh.

A No.

Oh, one other thing I testified on.

I should remember that; it's the most recent. It was 1983 on the remedial soils hearing at Midland.

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MS. SAGINAW: Okay, I think that's all the questions I have for you, as far as your educational and job background, and we'll take your substantive deposition tomorrow.

THE WITNESS: All right.

MS. SAGINAW: Do you have any questions?

MR. HARTMAN: No. I would just like the record to reflect that you have decided to continue the substantive deposition tomorrow.

MS. SAGINAW: Well, we can go now, if you would like.

MR. HARTMAN: What is the Staff's position on that?

MR. PIRFO: Well, it's after seven o'clock.

A little reason should apply. I'm sure we can go.

I wouldn't be delighted with it.

MS. SAGINAW: I thought we agreed to stop and 6:30, so I thought it sounded reasonable.

MR. PIRFO: It's not my deposition.

I don't really have a position. I am at the mercy

of --

MS. SAGINAW: Would you like to continue?

MR. HARTMAN: It's your dime. If you want to stop, I'm not going to object to it.

MR. PIRFO: It's seven o'clock in the

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evening. I mean, you know --

MR. HARTMAN: Good things have to come to an end sometime.

MS. SAGINAW: That's it, I think.

(Whereupon, at 7:05 p.m., the taking of the deposition was recessed to reconvene at 9:00 a.m., Tuesday, January 10, 1989.)

G. S. KEELEY

## CERTIFICATE OF PROCEEDINGS

This is to certify that the attached proceedings before the NRC COMMISSION

In the matter of: DEPOSITION OF GILBERT SMITH KEELEY

Date of Proceeding: July 9, 1984

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Place of Proceeding: Glen Rose, Texas

were held as herein appears, and that this is the original

transcript for the file of the Commission.

Marilynn Nations

Official Reporter - Typed

Official Reporter - Signature

TAYLOE AS