

15 MR. SWEENEY: Your Honor, petitioner calls

16 Dr. Clint Glenn Pettifer.

17 CLINT GLENN PETTIFER

18 having been called as a witness in the

19 above matter, and after having been first duly sworn,

20 was examined and testified as follows:

21 VOIR DIRE EXAMINATION

22 BY MR. SWEENEY:

23 Q. Good afternoon, Dr. Pettifer?

24 A. Good afternoon.

25 Q. Could you please state your full name for

26 the record?

27 A. Glenn Robert Pettifer.

28 Q. And what is your occupation?

29 A. I am a veterinarian and I am assistant

30 professor of anesthesiology at the school of

31 veterinary medicine at LSU in Baton Rouge.

32 Q. Okay. And what specialized field of

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1 veterinary medicine do you practice?

2 A. The specialty of veterinary anesthesiology.

3 MS. ESTIPONAL: Your Honor, at this time,
4 I'd like to pose an objection to Dr. Pettifer's
5 testimony. As I understand it Dr. Pettifer is a
6 veterinarian. We have already had expert testimony
7 from an MD anesthesiology expert on the issue of the
8 lethal injection drugs.

9 And I am unsure what relevance
10 Dr. Pettifer's testimony has to the issue of the
11 lethal injection being cruel and inhuman, unusual
12 punishment on the Eighth Amendment as raised in this
13 case.

14 MR. SWEENEY: Your Honor, may I respond?

15 THE COURT: You may.

16 MR. SWEENEY: Thank you. As an initial
17 matter, Dr. Pettifer will show that he has specific
18 knowledge of each of the drugs used in the lethal
19 injection process. Moreover, the testimony will show
20 that one of the agents used in the lethal injection
21 process, pancuronium bromide, is specifically
22 prohibited as a method of euthanasia by statute in the
23 State of Louisiana. And that the first drug, sodium

24 pentothal as a matter of practice is never used in
25 animal euthanasia.
26 I submit, Your Honor, that if we can't
27 use -- or if the evidence will show that these
28 chemicals cannot be used to put an animal to death,
29 then by logical extension they should not be used to
30 execute a human being. I think that issue is really,
31 you know, I think the evidence we'll hear today will
32 be on those drugs and their prohibition in the use of

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1 animal euthanasia, are directly relevant to the
2 question of whether lethal injection violates the
3 cruel and unusual punishment of the Eighth Amendment.

4 Previously the State has attempted to
5 distinguish some other testimony on grounds that there
6 was no one here talking about killing anything. Well,
7 we have someone who has killed many living creatures.

8 THE COURT: But not human beings?

9 MR. SWEENEY: No.

10 THE COURT: Do you have any case law that
11 will support a veterinarian testifying as an expert in
12 a death penalty case in Louisiana or anywhere else?

13 MR. SWEENEY: I don't have the case on me,
14 but I know in Abdur'Rahman vs. Workman, a case out of
15 Tennessee, in a similar proceeding a veterinarian was
16 permitted to testify to this issue. This is the first
17 time in Louisiana though, Your Honor.

18 THE COURT: The Court sustains the
19 objection to this witness testifying. Do you want to
20 make a proffer outside the presence of the Court?

21 MR. SWEENEY: Yes, Your Honor, we would
22 like to do that.

23 MS. ESTIPONAL: Thank you, Your Honor. I'm

24 not sure if the Court would allow us to continue to
25 use the courtroom in your absence.

26 THE COURT: I am going to step out and
27 leave y'all here to question or not question the
28 witness, and when they finish then, Mr. Bailiff, you
29 let me know.

30 THE BAILIFF: All rise, please.

31 (Whereupon, the Court excused herself and
32 the proffer begins.)

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1 PROFFER EXAMINATION

2 BY MR. SWEENEY:

3 Q. Doctor, I think we left off I was asking
4 what is veterinary anesthesiology?

5 A. Well, anesthesia as the science applies to
6 the practice or the science techniques involved in
7 rendering animals unconscious and creating a condition
8 where they are free from pain during surgical
9 procedures.

10 Q. Okay. Doctor, I'm going to hand you what's
11 been marked as Exhibit Number 175. I have provided a
12 copy to the State previously. And what is this a copy
13 of?

14 A. This is a copy of my curriculum vitae.

15 Q. And does this document accurately reflect
16 your education, qualifications, training and
17 experience?

18 A. Yes, it does.

19 Q. Dr. Pettifer, what is your educational
20 background?

21 A. I have an honors BA in psychology, a BSC in
22 zoological sciences, a doctorate of veterinary
23 medicines, then a doctorate in veterinary science.

24 Q. Doctor, can you tell us about the American

25 College of Veterinary Anesthesiologist?

26 A. The American College of Veterinary

27 Anesthesiologist is the board that supervises the

28 specialized training and examination and certification

29 of specialists in veterinarian anesthesiology.

30 Q. Okay. Do you have any special

31 certification from the American College of

32 Veterinarian Anesthesiologist?

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1 A. Yes, I am certified by the American College
2 of Veterinarian Anesthesiologist.

3 Q. Do you have any other roles or perform any
4 other functions for the AMVA?

5 A. For the ACVA?

6 Q. ACVA, right.

7 A. I'm currently chairperson for the
8 examination committee, and I also sit on the board of
9 directors.

10 Q. Doctor, are you a member of any
11 professional organizations?

12 A. Yes, I'm a member of the American
13 Veterinary Medical Association, the Canadian
14 Veterinary Medical Association, the International
15 Association for the study of pain, member of the
16 Veterinarian Emergency & Critical Care Society, and
17 I'm a member of the International Alliance of Teaching
18 Scholars.

19 Q. And do you present at association meetings?

20 A. I do.

21 Q. Do you practice in the field of
22 veterinarian anesthesiology?

23 A. I do. Part of my appointment at the

24 Louisiana State University is a clinical appointment
25 in the veterinary teaching hospital.

26 Q. Okay. Approximately how many anesthetic
27 procedures have you performed this past year?

28 A. Probably in the neighborhood of 5- to 600
29 per year would be an average number.

30 Q. Okay. Do you have any teaching positions
31 in your field?

32 A. Yes. As I said I'm the assistant professor

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1 of the anesthesiology at the school of veterinarian
2 medicine.

3 Q. Have you previously held any teaching
4 positions?

5 A. Right. Prior to coming to LSU, I was
6 assistant professor of anesthesiology at the Ontario
7 Veterinarian College in Ontario, Canada. And then
8 prior to that I was a clinical instructor at the
9 University of Georgia in Athens, and then prior to
10 that I was a clinical instructor at the University of
11 Saskatchewan.

12 Q. And what does your work at LSU entail?

13 A. Half of my time is spent supervising the
14 administration of anesthesia to a wide variety of
15 species. Animals that are presented to the teaching
16 hospital at the school of veterinarian medicine, and
17 the other half of my appointment is involved in
18 didactic teaching and research?

19 Q. And can you recall some of the journals in
20 which you have published?

21 A. The American Journal of Veterinary
22 Research, the Journal of the American Vet Medical
23 Association, the Journal of Veterinary Anesthesia and

24 Analgesia, the Canadian Journal of Veterinarian

25 Research, the Canadian Veterinary Journal.

26 MR. SWEENEY: For this proffer we would

27 like to have Dr. Pettifer's curriculum vitae included

28 in the record.

29 MS. ESTIPONAL: No objection.

30 Q. (By Mr. Sweeney) Dr. Pettifer, in your

31 professional field are you familiar with the chemical

32 sodium pentothal?

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1 A. I am.

2 Q. Is that also known as sodium thiopental?

3 A. It is.

4 Q. Can you briefly describe the chemistry of
5 sodium pentothal?

6 A. Sodium pentothal belongs to the broad class
7 of drugs known as barbiturates and sodium -- sodium
8 thiopental is known as an ultra-short acting
9 barbiturate.

10 Q. Okay. And what is meant by the term
11 ultra-short acting?

12 A. It refers to the duration of action of the
13 drug following the administration of a single dose.

14 Q. Do you know whether sodium thiopental is a
15 controlled substance?

16 A. It is.

17 Q. In your professional field, Doctor, are you
18 familiar with the chemical, sodium pentobarbital?

19 A. Yes, I am.

20 Q. And what is sodium pentobarbital?

21 A. It is also a barbiturate, although, it
22 belongs to the class of short acting barbiturates
23 rather than the class of ultra-short acting

24 barbiturates.

25 Q. So sodium pentobarbital is not the same

26 chemical as sodium pentothal?

27 A. No, no.

28 Q. And what is the difference between sodium

29 pentobarbital and sodium pentothal?

30 A. In terms of difference in clinical efficacy

31 really the most striking difference would be the

32 difference in the duration of action following the

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1 administration of a single dose of either of those two
2 drugs.

3 Q. And sodium pentobarbital is the longer
4 acting of the two?

5 A. Correct.

6 Q. So it would be accurate to say that the
7 anesthetic effect of sodium pentobarbital lasts longer
8 than the anesthetic effect of sodium pentothal?

9 A. Correct.

10 Q. Doctor, in your professional field are you
11 familiar with the chemical, pancuronium bromide?

12 A. I am.

13 Q. And what is pancuronium bromide?

14 A. It is a non-depolarizing neuromuscular
15 blocker.

16 Q. And what is meant by non-depolarizing?

17 A. The neuromuscular blockers that belong to
18 the same class as pancuronium bromide exert their
19 effect by occupying the receptor sites on the muscle
20 tissue that is normally activated by the chemicals
21 that are released by the nerves during neuromuscular
22 transmission.

23 Q. Okay. And do you know what effect -- may

24 be if you -- do you know what effect pancuronium

25 bromide has when administered to mammals?

26 A. Generally the effect is that it produces

27 skeletal muscle paralysis. So what that means is that

28 the animal is rendered unable to move to use any -- to

29 demonstrate any skeletal muscle function at all and

30 also unable to ventilate or breathe.

31 Q. Okay. In your professional field are you

32 familiar with the chemical potassium chloride?

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1 A. Yes.

2 Q. And what is potassium chloride, Doctor?

3 A. Potassium chloride is an electrolyte
4 solution containing both potassium and chloride.

5 Q. And Doctor, are you aware that three of
6 these chemicals, sodium pentothal, the Pavulon and the
7 potassium chloride are used in the process of lethal
8 injection in Louisiana?

9 A. I am.

10 Q. Doctor, I'm going to ask you a few
11 questions now about your experience with veterinary
12 euthanasia.

13 A. Sure.

14 Q. How many veterinary euthanasia procedures
15 have you performed in your professional career?

16 A. In my career in the neighborhood of
17 thousands.

18 Q. And just briefly, what types of animals
19 have you euthanized?

20 A. I have been involved in euthanasia of
21 elephants, horses, cattle, sheep, goats, pigs, dogs,
22 cats, rabbits, pretty much any, you know, animal that
23 is kept in confinement can be at risk of euthanasia.

24 Q. Okay. And do you have experience with the
25 administration of anesthesia during veterinary
26 surgery?

27 A. I do.

28 Q. In your career how many veterinary surgical
29 procedures have you provided anesthesia for?

30 A. Probably tens of thousands.

31 Q. And again briefly, what type of animals
32 have you provided anesthesia for during surgery?

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1 A. All of those that I enumerated previously
2 plus giraffes, primates, large lowland gorillas,
3 tigers. Mike the Tiger is a client of mine, and then
4 all of the other domestic species like horses, cattle,
5 dogs, cats.

6 Q. Okay. Dr. Pettifer, in your work as a
7 veterinary anesthesiologist in what types of settings
8 would you administer anesthetic agents?

9 A. We as veterinarian anesthesiologists, we
10 are called upon to provide anesthesia that can be
11 administered for the purpose of providing just
12 chemical restraint for a particular diagnostic
13 procedure, or we may be asked to provide anesthesia,
14 general anesthesia, for a surgical procedure and then
15 there are occasions where we are asked to provide
16 anesthesia for the purpose of euthanasia.

17 Q. Okay. And is there any common purpose for
18 anesthesia among these various procedures?

19 A. Generally anesthesia is used for restraint
20 and then to provide unconsciousness and then also
21 freedom from pain during any particular procedure.

22 Q. Before addressing euthanasia in detail I
23 would like to briefly review -- before addressing

24 euthanasia in detail I would like to briefly review
25 anesthesia in veterinary surgery. How is anesthesia
26 used in veterinary surgery?

27 MS. ESTIPONAL: I think that is asked and
28 answered.

29 MR. SWEENEY: I'm asking the witness to
30 more fully flesh out that answer.

31 A. I can just describe generally the process
32 that is involved.

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1 Q. (By Mr. Sweeney) Sure.

2 A. Normally, for the provision of anesthesia
3 for surgery the procedure involves first the
4 administration of a premedicant, anti-anxiety drug
5 like Diazepam or Diazelan. And then once the premeds
6 have taken effect then we will move to the stage of
7 inducing general anesthesia which is usually
8 accomplished with an injectable drug.

9 Once the anesthesia is induced with the
10 injectable drug then we will perform endotracheal
11 intubation which allows us to connect the animal to a
12 gas anesthetic machine which allows us then to
13 maintain the anesthesia with an inhaled anesthetic and
14 then finally at the end of the procedure is the
15 recovery phase, where we discontinue the gas
16 anesthetic and allow the animal to recover.

17 Q. Okay. In your practice which drug or drugs
18 do you most commonly use in induce general anesthesia
19 in healthy animals?

20 A. In healthy animals we used thiopental most
21 commonly to induce general anesthesia.

22 Q. And why do you use an ultra-short acting
23 drug like sodium pentothal to induce anesthesia?

24 A. Well, the reason that we administer the
25 injectable agent is really just to take the animal to
26 the point where we can perform endotracheal intubation
27 and allow us to connect the animal to the gas
28 anesthetic machine. So we really only want a drug
29 that lasts for a relatively short period of time that
30 allows us to facilitate the endotracheal intubation.

31 Q. Okay.

32 A. And we wouldn't want to use a longer acting

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1 injectable drug because then you have the cumulative
2 effect of the injectable drug and the inhaled
3 anesthetic as well.

4 Q. Okay. Doctor, do you individually assess
5 the animal's physical and medical background before
6 administering anesthesia during surgery?

7 A. Yes.

8 Q. And why is that important?

9 A. It is important because there can be a lot
10 of variation in physiological function or medical
11 positions of the animals that can impact on the dose
12 of drug that we ultimately give.

13 Q. Okay. Is it necessary to titrate the dose
14 of any drug in the administration of anesthesia during
15 surgery?

16 A. It is.

17 Q. And that holds true for sodium thiopental?

18 A. Correct.

19 Q. And Doctor, as a recap is it fair to say
20 that the prime reason for the use of anesthesia in
21 surgery is to reduce or eliminate the animal's
22 sensation of pain during the surgery?

23 A. Correct.

24 Q. I'd like to shift subjects now, shift to
25 another subject now, and move into a discussion of
26 animal euthanasia.

27 A. All right.

28 Q. When we use the term euthanasia, Doctor,
29 what is the definition that you would use as a doctor
30 of veterinary medicine?

31 A. Well, euthanasia comes from the Greek words
32 eus and thanatos, which means good death. And in the

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1 context of veterinary medicine euthanasia describes
2 the procedure of producing death in an animal without
3 pain or distress.

4 Q. Has the American Veterinary Medical
5 Association issued any guidelines about acceptable
6 methods and chemical agents used in animal euthanasia?

7 A. Yes, they have.

8 Q. Okay. I'm going to approach the witness
9 with Exhibits 178 and 179. They are copies of two
10 Louisiana Revised Statutes. First Revised Statute
11 Article 3, section 2462, and Article 3, section 2465.

12 Dr. Pettifer, are you familiar with the
13 Louisiana statutes governing euthanasia of animals?

14 A. Yes.

15 Q. And do those statutes give any guidance on
16 how euthanasia is to be carried out in the State of
17 Louisiana?

18 A. Yes. They specifically state that
19 euthanasia methods and procedures must conform with
20 the recommendations outlined in the report of the
21 American Veterinarian Medical Association on
22 euthanasia, dated July 1, 1978 or as revised.

23 Q. Okay. And Dr. Pettifer is euthanasia

24 defined in Louisiana Revised Statutes, section 3:2642?

25 A. Yes, it is, 2462.

26 Q. And how is it defined in that statute,

27 Doctor?

28 A. It is defined as the act of inducing a

29 painless death upon an animal in a humane manner.

30 Q. Okay. I'm going to approach the witness

31 with Exhibit 177, which is the 1993 report of the

32 American Veterinary Medical Association Panel on

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1 euthanasia, and Exhibit 176 which is the 2000 report
2 of American Veterinary Medical Association Panel on
3 euthanasia. Copies have previously been provided to
4 the State. Can you identify these documents, Doctor?

5 A. Yes. They are different iterations of the
6 report of the AVMA Panel on euthanasia, one from 1993
7 and the other from 2000.

8 Q. And are these panel reports revisions of
9 the 1978 American Veterinary Medical Association
10 report on euthanasia?

11 A. Yes, they are.

12 Q. So as a practicing Louisiana doctor of
13 veterinary medicine, are you therefore mandated to
14 follow the AVMA guidelines on the euthanasia of
15 animals?

16 A. Yes.

17 Q. Let's look at these guidelines in detail,
18 starting with Exhibit 177, the 1993 panel report.
19 Please turn to the last paragraph on the second page
20 beginning with, quote, for pain to be experienced --
21 and ending with, quote, regain consciousness prior to
22 death. If you could read that full paragraph out loud
23 for the record.

24 A. "For pain to be experienced the cerebral
25 cortex and subcortical structures must be functional.
26 An unconscious animal cannot experience pain because
27 the cerebral cortex is not functioning. If the
28 cerebral cortex is nonfunctional because of hypoxia,
29 depression by drugs, electric shock or concussion,
30 pain is not experienced; therefore, the choice of the
31 euthanasia agent or method is of less importance if it
32 is to be used on an animal that is anesthetized or

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1 unconscious provided that the animal does not regain
2 consciousness prior to death."

3 Q. And Doctor, why is it paramount to avoid
4 having the animal regain consciousness before death?

5 A. Because if the animal were to regain
6 consciousness prior to the administration of the
7 technique or drug that was going to produce death, it
8 could lead to the animal actually experiencing extreme
9 distress or pain as death ensued.

10 Q. Doctor, does Exhibit 177, the 1993 report
11 of the AVMA on euthanasia, describe what are
12 acceptable euthanasia methods?

13 A. Yes.

14 Q. And where are those descriptions located?

15 A. They are located in the appendix section
16 tables 1 through 4.

17 Q. And what is the subject, if you could take
18 us through each of the tables, 1 through 4?

19 A. Table 1, list the agents and methods of
20 euthanasia that are found acceptable or conditionally
21 acceptable for various species. Table 2, gives a
22 summary of acceptable agents and methods of euthanasia
23 and lists the characteristics of those methods and

24 their modes of action. And then Table 3, gives a
25 summary of the conditionally acceptable agents and
26 methods of euthanasia and lists the characteristics
27 and modes of action of those conditionally acceptable
28 agents. And then finally Table 4, lists a summary of
29 some of the unacceptable agents and methods of
30 euthanasia.

31 Q. Is sodium pentothal specifically referenced
32 in any one of these tables?

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1 A. No.

2 Q. Is there a reference on Table 2 to

3 barbiturates in general?

4 A. Table 2?

5 Q. Uh-huh.

6 A. Yes, there is.

7 Q. And in Table 1 is there a specific

8 reference to sodium pentobarbital?

9 A. Yes, there is a specific reference to the

10 use of sodium pentobarbital.

11 Q. Dr. Pettifer, in your professional

12 experience is sodium pentothal an acceptable agent for

13 animal euthanasia?

14 A. No.

15 Q. And why not?

16 A. Largely because of the duration of action

17 of the drug and also because we have better

18 alternatives.

19 Q. And when you mean, when you say the

20 duration of the action, what do you mean by that, the

21 duration of action of this specific drug, what is

22 problematic?

23 A. The short duration of action of sodium

24 thiopental is of some concern in consideration of the
25 fact that we have barbiturates that are longer acting.

26 Q. Okay. And you mentioned a superior
27 alternative. What is a superior alternative to
28 thiopental?

29 A. In our practice pentobarbital.

30 Q. Are you aware in your practice whether it
31 is common in the field of veterinary medicine to use
32 sodium pentothal, either by itself or in combination

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1 with any other drugs in performing euthanasia?

2 A. It is very uncommon.

3 Q. Doctor, is that a practice that you ever
4 engage in?

5 A. No.

6 Q. And how many times have you performed
7 euthanasia?

8 A. Thousands of times.

9 Q. Let's shift our discussion to Pavulon or
10 pancuronium bromide as it is also called. Is Pavulon
11 an acceptable euthanasia agent?

12 A. No.

13 Q. Is it therefore also unacceptable under
14 Louisiana statutes governing euthanasia?

15 A. Correct. It is not acceptable.

16 Q. Okay. Dr. Pettifer, I would like to direct
17 your attention to Exhibit 176, the 2000 AVMA report on
18 euthanasia, on what is listed as page 680 of this
19 exhibit. Dr. Pettifer, can you go to the section of
20 that page which is entitled to pentobarbital
21 combinations and can you review that silently?

22 A. (Witness complies with request.)

23 Q. What does that section indicate about the

24 use of neuromuscular blocking agents?

25 A. It specifically states that a combination
26 of pentobarbital with a neuromuscular blocking agent
27 is not an acceptable euthanasia agent.

28 Q. In your expert opinion, Doctor, what is the
29 effect that Pavulon might have on an animal that is
30 not properly anaesthetized?

31 A. Well, because Pavulon can produce
32 neuromuscular paralysis if it is administered in a

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1 manner that allows an animal to be at any level of
2 consciousness when the Pavulon takes effect, the
3 animal will be completely paralyzed so that it is
4 unable to move its limbs at all, but more importantly
5 it is unable to breath or ventilate. So essentially
6 the animal will suffocate, and if the animal is
7 conscious at that time, it would experience extreme
8 distress and pain.

9 Q. Doctor, when you contract a muscle, a
10 voluntary muscle, is it correct to say that a nerve
11 impulse originates in the brain and goes down the
12 nerve fibers to the muscle?

13 A. Correct.

14 Q. And then the nerve impulse goes from the
15 brain down to the muscle that is to be contracted; is
16 that correct?

17 A. Yes.

18 Q. And when the nerve impulse reaches the
19 nerve ending, the neuronal endings as they are also
20 called, at that muscle tissue, is there a chemical
21 reaction that occurs and causes the muscle to
22 contract?

23 A. That's correct. There are chemicals that

24 are released by the nerves that stimulate receptors on
25 the muscle tissue then that ultimately leads to the
26 muscle contraction.

27 Q. Now, Doctor, with the neuromuscular
28 blocking agent, am I correct in understanding that the
29 neuromuscular simply blocks the final step in the
30 process?

31 A. Correct. The neuromuscular blocking agent
32 actually blocks those receptors that I just spoke

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1 about and it prevents the chemical that's released by
2 the neuron, by the nerves from actually binding to the
3 receptors and causing muscle contraction.

4 Q. Does it block the actual creation of the
5 nerve impulse in the brain?

6 A. No.

7 Q. And does it block the passage of that nerve
8 impulse through nerve to the final point?

9 A. No.

10 Q. All right. So there is no effect on the
11 brain itself?

12 A. No.

13 Q. So by extension would it have any effect on
14 the perception of pain?

15 A. No.

16 Q. An injection of Pavulon does not
17 anesthetize an animal from feeling pain?

18 A. That's correct. It only produces
19 paralysis.

20 Q. Could you explain the reasons for not using
21 Pavulon or pancuronium bromide as it is also called in
22 any respect as an agent in euthanasia in animals?

23 A. Well, if it were used as the only agent to

24 produce euthanasia essentially what you would be doing
25 would be just paralyzing the animal and preventing it
26 from breathing and the animal would die of hypoxemia,
27 oxygen deficiency, but would be entirely conscious.

28 One of the -- if it is used in
29 combinations, one of the concerns or one of the
30 concerns that surround the use of it in combination is
31 that it can -- because it produces paralysis, actually
32 produces what some people will refer to as a chemical

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1 vail over the animal's level of consciousness. So if
2 the animal is paralyzed and not able to move any
3 skeletal muscles, then it becomes impossible for the
4 veterinarian to determine the level of consciousness
5 in the animal.

6 Q. And Doctor, what is your experience as the
7 most common method of euthanasia of animals?

8 A. In my experience the most common method is
9 the administration of an overdose of sodium
10 pentobarbital.

11 Q. And what kind of experience of pain and
12 suffering would an animal injected with sodium
13 pentobarbital go through?

14 A. There should be none.

15 Q. And how is the sodium pentobarbital
16 administered into the animal's body?

17 A. In most cases it is administered
18 intravenously.

19 Q. And is that in one injection?

20 A. In a single injection, yes.

21 Q. Okay. I'd like to switch gears again to
22 your other area of practice relating to your use of
23 chemical agents. Are neuromuscular blocking agents

24 ever used in surgery on animals?

25 A. Occasionally, yes.

26 Q. And could you describe for what purpose

27 neuromuscular blocking agents would be used in animal

28 surgery?

29 A. We tend to use them most frequently in

30 cases that involve surgery of the eye, because it is

31 very important during surgery of the eye that the eye

32 remain motionless as the surgeon is carrying out

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1 whatever surgical procedure he or she is doing. So
2 when we administer the neuromuscular blocking agent,
3 it paralyzes the ocular muscles and the eye rotates up
4 centrally into the globe and then just will sit there
5 and not move for the duration of effect of the
6 neuromuscular blocking agent.

7 Q. And what conditions are required in using a
8 neuromuscular blocking agent in animal surgery?

9 A. When you use neuromuscular blocking agents
10 it puts special demands on your monitoring
11 capabilities because in the non-paralyzed animal
12 during anesthesia, we tend to rely on physical
13 movements like the respiratory movement or changes in
14 the respiratory pattern as indicators of the depth of
15 anesthesia or even movement of the limb would
16 certainly be an extreme indicator that an animal was
17 too light.

18 So that if we are carrying out a procedure
19 that involves neuromuscular paralysis, we lose the
20 ability to monitor those types of signs. So we have
21 to be a bit more aggressive, and then we tend to rely
22 on changes in blood pressure and heart rate. That's
23 indicators of changes in depth of anesthesia.

24 Q. And how do you go about assessing blood
25 pressure, you know, as measuring anesthetic depth?
26 A. Right. Well, there are some species
27 variation in how we do it but typically say in horses,
28 for instances, it involves placing a catheter in a
29 peripheral artery and then connecting that catheter to
30 a fluid filled line that is connected to a pressure
31 transducer that is connected to a monitor and then it
32 transduces the pressure in the tubing to an electrical

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1 signal which is then displayed on the screen.

2 Q. And did you also say that you assess the

3 monitor, you monitor the heart rate as another --

4 A. Correct. And the heart rate can be

5 monitored with an electrocardiogram.

6 Q. Okay. Doctor, is it fair to describe that

7 when the environment -- is it fair to say that when

8 you use a neuromuscular blocking agent during surgery,

9 that it is done in a very controlled environment?

10 A. Correct. A highly controlled environment

11 and we have to be very specific and particular about

12 monitoring.

13 Q. And does it require expertise in the

14 monitoring of anesthetic depth beyond the routine

15 anesthetic case?

16 A. Yes, it does.

17 Q. When Pavulon or pancuronium bromide is used

18 in a surgical procedure what steps do you take or what

19 are the steps in the administration of drugs in

20 connection with the use of the neuromuscular blocking

21 agent?

22 A. Well, we talked earlier about the processes

23 involved of inducing an animal to general anesthesia,

24 so we would follow that same process once we have the
25 animal induced to anesthesia and comfortably on a gas
26 anesthetic we would go ahead and start mechanically
27 ventilating the animal prior to the administration of
28 the neuromuscular blocking agent.

29 Once we are -- we have all of our
30 monitoring equipment set and it is working well and
31 the ventilator is working well, then we will go ahead
32 and administer the neuromuscular blocking agent.

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1 Q. Okay. Would sodium pentothal ever be used
2 to cause the general anesthesia that would be in place
3 before the neuromuscular blocking agent?

4 A. Yes, at times it would.

5 Q. Would it be the only drug that's used?

6 A. No. It would be used to induce anesthesia
7 but it wouldn't be used to maintain anesthesia. Most
8 typically the anesthesia is maintained by an inhaled
9 anesthetic.

10 Q. Doctor, in your opinion can you explain
11 what effect Pavulon would have on an animal surgeon's
12 ability to monitor anesthesia and also detect what
13 might be happening with the animal?

14 MS. ESTIPONAL: I think this has been asked
15 and answered.

16 Q. (By Mr. Sweeney) Doctor, I think you gave
17 an outline of that answer earlier. I would just like
18 you to flesh your response out a bit more.

19 A. Can you repeat the question for me?

20 Q. Sure. In your opinion can you explain what
21 effect Pavulon would have on an animal surgeon's
22 ability to monitor anesthesia and also detect what
23 might be happening with the animal?

24 A. Right. So as I briefly mentioned, the
25 producing neuromuscular paralysis in an animal
26 produces this chemical veil that prevents us from
27 assessing or observing the types of parameters that we
28 normally use to monitor depth of anesthesia, things
29 like respiratory rate or response to surgical
30 stimulation, those types of parameters are removed in
31 the presence of neuromuscular blockade and it means
32 that we have to be more aggressive about our

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1 monitoring and in most cases use more invasive

2 monitoring techniques.

3 Q. And you briefly described those monitoring

4 techniques several moments ago?

5 A. Right. So we use techniques like using

6 electrocardiograms to monitor heart rates, and using

7 some form of blood pressure monitoring, and then we

8 will also monitor the degree of neuromuscular blockade

9 using a piece of equipment called a peripheral nerve

10 stimulator.

11 Q. Okay. In general practice in the surgical

12 context do you know whether veterinarians use a lot of

13 neuromuscular blocking agents during surgery?

14 A. They do not.

15 Q. Do you know why that is?

16 A. Because it requires specialized equipment

17 and monitoring and it also requires fairly specialized

18 knowledge to use them appropriately, which not all

19 general practitioners would have.

20 Q. Okay. Doctor, how is potassium chloride

21 used for animal euthanasia?

22 A. Potassium chloride is used occasionally in

23 animal euthanasia, it is typically used in situations

24 where there is residual cardiac activity following the
25 administration of an overdose of pentobarbital. And
26 in that situation a large dose of potassium chloride
27 is given and the potassium actually causes fatal
28 dysrhythmias or disrupts the normal conduction of
29 impulses in the heart itself. So it actually is used
30 to stop the heart.

31 Q. How commonly is that method used?

32 A. The administration of potassium chloride?

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1 Q. Yes.

2 A. It is quite rare because in most situations
3 the administration the pentobarbital, the overdose of
4 pentobarbital alone is sufficient to produce -- to
5 produce the euthanasia.

6 MR. SWEENEY: I have nothing further at
7 this time.

8 CROSS-EXAMINATION

9 BY MS. ESTIPONAL:

10 Q. Dr. Pettifer, I notice that there are many
11 acceptable ways of inducing euthanasia in animals; is
12 that correct?

13 A. Yes, as described in the report, yes.

14 Q. And some of those -- and conditional
15 acceptable methods, correct, which means under certain
16 conditions these methods of euthanasia are acceptable?

17 A. Correct.

18 Q. And those include decapitation?

19 A. Yes.

20 Q. Cervical dislocation?

21 A. Correct.

22 Q. Pithing, can you explain what pithing is,

23 P-I-T-H-I-N-G?

24 A. Pithing is used -- is an euthanasia method
25 that is used most commonly in amphibians that involves
26 taking a blunt probe and placing it into the base of
27 the skull into the brain.

28 Q. And let's see? Closed bolt -- what? Can
29 you help me with the rest of that term, captive?

30 A. Captive closed bolt.

31 Q. And that is what, like a bullet?

32 A. It is like a bullet but it is actually not

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1 discharged from the firearm other than, you know, a
2 certain distance. So it is a captive bolt.

3 Q. Okay. And that is used with horses,
4 rabbits, amphibians, dogs?

5 A. Correct.

6 Q. Many other mammals and non mammals,
7 correct?

8 A. Probably most commonly used with horses,
9 rarely used, I think, with dogs.

10 Q. Okay. Also I see inhalant anesthetics are
11 acceptable and cervical dislocation, that pretty much
12 self-defines, ringing the neck, right, breaking the
13 vertebra by twisting the head and body in different
14 directions?

15 A. That's correct. I'm not that skilled in
16 that technique. I know there are people that do, you
17 know, perform euthanasia that way have very specific
18 technique that they use. So I wouldn't be that
19 comfortable in characterizing it as ringing the neck.

20 Q. Okay. Just for the layman's term, cervical
21 dislocation is the technical term that's commonly used
22 in bird and mice?

23 A. Sometimes, yes.

24 Q. I also see it as conditionally acceptable

25 for rabbits; is that correct?

26 A. Yes.

27 Q. Okay. Also for rodents and other small

28 animals, microwave irradiation is acceptable, correct?

29 A. Yes.

30 Q. Electrocutation for ruminants, that is cows,

31 right?

32 A. Correct.

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1 Q. Swine?

2 A. Yes.

3 Q. Mink, fox and other mammals produced for
4 fur?

5 A. Right.

6 Q. And that includes electrocution followed by
7 cervical dislocation. Horses conditionally
8 acceptable?

9 A. Electrocution?

10 Q. Yes. And I also see electrocution for dogs
11 conditionally acceptable?

12 A. Right. But they would have to be fairly,
13 you know, extenuating circumstances in which a method
14 like that would be used.

15 Q. Whatever the -- that is why it is
16 conditional.

17 A. Exactly. And most commonly the reason that
18 those types of methods would be used rather than
19 something that involves the administration of a drug,
20 it would be in a research setting where you wanted to
21 preserve, you know, architecture, cellular
22 architecture that may be affected by the
23 administration of a drug.

24 Q. Well, isn't that the same reason why the
25 decapitation and cervical dislocation are approved for
26 lab animals also?

27 A. That's correct, that's correct.

28 Q. Okay. We certainly wouldn't recommend
29 those methods of euthanasia for a human being?

30 A. No.

31 Q. Not since the guillotine has been
32 discontinued in France?

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- 1 A. But they do do electrocution.
- 2 Q. In France?
- 3 A. In humans.
- 4 Q. Oh, sure.
- 5 A. Right.
- 6 Q. Not in this state anymore.
- 7 A. Right.
- 8 Q. And I guess cervical dislocation,
- 9 couldn't -- hanging might accomplish that depending on
- 10 the length of the drop.
- 11 A. Right. Right. I mean, I think some of
- 12 those more mechanic methods like cervical dislocation
- 13 are really species specific.
- 14 Q. Right.
- 15 A. They tend to use it in much smaller animals
- 16 where, you know, there isn't much resistance to
- 17 overcome when you are actually carrying out that
- 18 mechanical procedure.
- 19 Q. Right.
- 20 A. You wouldn't hang a horse.
- 21 Q. So it is a relatively quick method?
- 22 A. Exactly.
- 23 Q. For those who are skilled at it?

24 A. Exactly.

25 Q. Explain to me the microwave irradiation.

26 That seems particularly gruesome to the layman for

27 rodents and other small animals. Microwave

28 irradiation is acceptable under the 1993 report of the

29 AVMA, Table 1 at the very bottom of that page.

30 A. The 1993?

31 Q. Yes.

32 A. Well, I am not familiar with this as a

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1 method of euthanasia. I have never seen it used, and
2 I have sat on a number of institutional animal care
3 and use committees that involves a lot of
4 considerations of euthanasia methods and I have never
5 seen an investigation in which that has been used.

6 Q. Well, let me ask you since we are talking
7 about animal care and use committees. What about
8 methods of anesthesia on say mice or rat pups, such as
9 lowering body temperature or freezing, is that --

10 A. That's not really -- there was a time when
11 hypothermia was, you know, thought to be a reasonable
12 form of restraints, but it certainly has fallen out of
13 favor, and it is generally felt that hypothermia is
14 not really an acceptable form of anesthesia or pain
15 control.

16 Q. Even when it is followed by a cervical
17 dislocation or pneumothorax or some other method of
18 euthanasia?

19 A. So the scenario you are describing is that
20 you are carrying out a procedure --

21 Q. Let's say field mice or rat pups?

22 A. Right, right, right. Well, yes there are
23 certainly instances where that may be used. I think

24 that our requirements tend to be somewhat less
25 stringent for fetal animals than they are for mature
26 individuals.

27 Q. Okay. Okay. Let me ask you a little bit
28 about this 2000 report of the AVMA panel on
29 euthanasia. I noticed on page 680 this is
30 Petitioner's Exhibit 176. There is the section on
31 pentobarbital combinations.

32 A. Correct.

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1 Q. There is some indication in here that the
2 sodium pentothal is easier to store and administer
3 than sodium pentobarbital; is that a correct
4 interpretation of that or could you explain that, say
5 about the seventh, sixth or seventh sentence down? It
6 says these combination products are listed by the DEA
7 as schedule III drugs, making them somewhat simpler to
8 obtain, store and administer. Does that mean because
9 of DEA regulations or the nature of the drugs?

10 A. No. Because of the DEA regulations.

11 Q. Okay. Thank you. I also notice it says a
12 combination of pentobarbital and this is highlighted
13 in the, I believe every copy of this exhibit, a
14 combination of pentobarbital with a neuromuscular
15 blocking agent is not an acceptable euthanasia agent.
16 Then right across from it, potassium chloride in
17 conjunction with prior general anesthesia which seems
18 to indicate that when an animal has been anaesthetized
19 with a prior general anesthesia, potassium chloride is
20 then an acceptable method of euthanasia because it
21 stops the heart, an acceptable method to produce
22 cardiac arrest and death?

23 A. Correct.

24 Q. Okay. So a combination of sodium pentothal
25 and potassium chloride would be an acceptable method
26 of general anesthesia?

27 A. A combination of sodium pentothal or
28 pentobarbital?

29 Q. Uh-huh.

30 A. Pentothal?

31 Q. Pentothal. Say in a massive dose of both
32 because after we want to produce --

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1 A. Yes, sure.

2 Q. -- euthanasia not anesthesia?

3 A. Right, right, right.

4 Q. Correct, we are not concerned about the
5 animal recovering. This is not anesthesia. It is a
6 terminal procedure, nonsurvival surgery if you will?

7 A. Right, right, right.

8 Q. So those two together would produce an
9 acceptable method of euthanasia?

10 A. Providing there was acceptable level of
11 monitoring.

12 Q. Or -- well, how much monitoring do you have
13 to have if -- how quickly is death produced with the
14 use of potassium chloride, a massive dose of potassium
15 chloride?

16 A. It probably is like, you know, linked to
17 heart circulation time so less than 60 seconds, but
18 what I'm talking about in terms of monitoring is that
19 you would want to make sure that your massive dose of
20 sodium thiopental was actually as massive as you
21 thought it was prior to administering the potassium
22 chloride to stop the heart.

23 Q. So you want to make sure that your first

24 dose is a massive dose of the sodium pentothal or
25 whatever other anesthetic agent you are using. So
26 that the animal does not recover consciousness by the
27 time the potassium chloride takes effect?

28 A. By the time the heart stops, that's
29 correct. Right.

30 Q. Okay.

31 A. Right.

32 Q. Now, of course, the sticky wick here is the

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1 Pavulon, the pancuronium bromide, because it is a
2 muscular paralytic agent.

3 A. It is, right.

4 Q. How -- do you ever use a drip when you are
5 producing euthanasia?

6 A. A drip of --

7 Q. Of any kind. Like start with a saline drip
8 and then you injection the -- whatever agent you are
9 using into some kind of a little portal?

10 A. Right. Normally when we are, you know, for
11 carrying out euthanasia with pentobarbital then we'll
12 inject that from a syringe into a vascular space so it
13 would tend not to drip it in.

14 Q. Right. Because that is an extra step
15 there. You have to put in the IV, find the vein for
16 that before you --

17 A. Right. But that's probably the only way to
18 insure that you are actually getting the drug that you
19 are giving into the vascular space.

20 Q. Uh-huh. Okay.

21 A. So even general practitioners that carry
22 out euthanasia say on horses on farms most will and
23 the rest are well advised to insert an intravenous

24 catheter prior to administering the euthanasia agent,
25 which is usually pentobarb, because then you have a
26 guaranteed access.

27 Q. Right. Once you establish that IV access
28 then you know you have got the vein?

29 A. Right, right, right. Because there are
30 lots of horror stories about people not taking the
31 time to do that. They get half of the dose of the
32 drug and they have just injecting it through a syringe

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1 and the needle comes out of the vein, and then you

2 have an animal that is in a great deal of distress.

3 Q. Right. And that's a mess; isn't it?

4 A. It is a big mess.

5 Q. You want to make sure the needle doesn't

6 penetrate through the vein to the other side?

7 A. Correct.

8 Q. Okay. So that's one reason to use an IV, a

9 drip type thing to insure you are actually getting the

10 drug into the veins of the animal?

11 A. Right. So you need a secure venous access.

12 Q. Correct. So the sodium pentothal, an

13 overdose of that would kill an animal. I mean, it is

14 a cardiotoxin, correct?

15 A. It is. It is. I guess it depends on the

16 extent of the overdose. I mean, how much of an

17 overdose is it actually. I guess I'm at somewhat of a

18 disadvantage to comment on that because we tend not to

19 use that drug. We tend to use an overdose of

20 pentobarbital as our primary euthanasia agent just

21 because of the longer duration or effect of that drug.

22 So you have a longer duration of effect of

23 cardiotoxicity. So you have a longer duration in

24 depression on the cardiovascular system and depression
25 of normal functioning.

26 Q. Is the onset as fast with pentobarbital?

27 A. No. It tends to be a little bit more
28 delayed, correct, just because of the differences in
29 solubility.

30 Q. Uh-huh, now if hypothetically your animal,
31 you have got your IV access, you have got your vein
32 access insured --

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1 A. Yes.

2 Q. You inject a large, let's say an overdose
3 of sodium pentothal, then you immediately inject an
4 overdose of pancuronium bromide and then potassium
5 chloride. Say the entire process takes between four
6 and a half to six minutes.

7 A. Okay.

8 Q. Would you consider that a humane method of
9 euthanasia?

10 A. I would, but as I said just a few minutes
11 ago, I am at a bit of a disadvantage to comment on the
12 overdose with the thiopental because it is not
13 something that I have experience with. Because --

14 Q. You don't have a lot of experience with the
15 use of sodium pentothal?

16 A. No. I have a lot of use or experience with
17 the use of sodium pentothal.

18 Q. But not as a euthanasia agent?

19 A. Not as a euthanasia agent because we tend
20 not to administer it in those large doses. So the
21 theoretical concerns are because of its duration of
22 action. It is an ultra-short acting barbiturate.
23 There is individual variation in the way animal's

24 bodies will deal with that drug. So some can
25 redistribute it very quickly from the brain to other
26 tissues that allow a return to consciousness.

27 So I don't have experience using an
28 overdose of that drug as part of a euthanasia
29 protocol.

30 Q. Well, I don't want you to answer if you are
31 not comfortable with your response.

32 A. Right.

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1 Q. That's fine. I have one final question and
2 that is to ask if you have a personal opinion on the
3 use of the death penalty in Louisiana?

4 A. I do.

5 Q. And what is that?

6 A. I am not taken to believe in the death
7 penalty.

8 Q. Thank you, Dr. Pettifer. I have no other
9 questions.

10 MR. SWEENEY: I'd like to ask a couple of
11 redirect questions.

12 REDIRECT EXAMINATION

13 BY MR. SWEENEY:

14 Q. Looking back at Petitioner Exhibit 176, the
15 Appendix 3 conditionally acceptable agents and methods
16 of euthanasia, have you located it?

17 A. Yes.

18 Q. Doctor, even in comparison with all the
19 methods, gruesome as the State has described them, on
20 this list of conditionally acceptable or acceptable
21 methods, is it correct to say that pancuronium bromide
22 is never used in animal euthanasia, never permitted to
23 be used in animal euthanasia?

24 A. I don't think that I would go so far as to

25 say never.

26 Q. Only under rare circumstances?

27 A. Correct.

28 Q. Why would you bother administering

29 pancuronium bromide in an euthanasia protocol? Would

30 there be any legitimate purpose?

31 A. Well, personally I think with the drugs

32 that we have, the other injectable drugs that we have

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1 available to us, I mean, particularly with sodium
2 pentobarbital, which is our mainstay. That drug
3 produces unconsciousness and depression of neuronal
4 and cardiovascular functioning of a duration that is
5 sufficient to, you know, provide us with a humane
6 means of euthanasia.

7 So we don't actually need to follow that
8 with a neuromuscular blocker because the one drug
9 itself usually does the trick or produces the effect.

10 Q. Thank you. You mentioned that
11 pentobarbital in comparison to sodium thiopental has a
12 slightly delayed onset?

13 A. Correct.

14 Q. Is that ever a problem for you in
15 administering animal euthanasia?

16 A. No, not at all. And it tends to be, there
17 is some species variation, in terms of the latency of
18 onset of those drugs. We are not talking, you know, a
19 delay of three to five minutes. We are talking, you
20 know, probably 30 seconds, 30 seconds to a minute
21 before you start to see an effect.

22 MR. SWEENEY: That's all I have. Just for
23 the record I would like to introduce as part of this

24 proffer Exhibits 176 and 177, 178 and 179 into the
25 record.

26 MS. ESTIPONAL: No objection, and I have no
27 other questions for Dr. Pettifer.

28 (Proffer Exhibit Nos. 176, 177, 178 and
29 179 were introduced into evidence.)

30 (The proffer is concluded and

31 Judge Emanuel enters the courtroom.)

32 MS. ESTIPONAL: I believe we have concluded

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1 defendant's proffer of Dr. Pettifer, his testimony and
2 defense counsel has offered some exhibits in proffer.
3 The State has made no objection to those.

4 THE COURT: So noted. Do we have other
5 witnesses for this afternoon?

6 MS. ESTIPONAL: I believe we do not, Your
7 Honor. I believe all that petitioner has for tomorrow
8 morning is Ms. Kolinchak, and I'll defer to counsel
9 for petitioner to let us know about that.

10 MR. CLEMENTS: That is accurate, Your
11 Honor. Ms. Carol Kolinchak is scheduled to appear
12 tomorrow morning and just as a parenthetical note even
13 though your attendance wasn't required, the deposition
14 is going to have to be continued of the other, the
15 unidentified John Doe deponent. It turns out that he
16 is going under root canal surgery tomorrow and we have
17 explained to him that we will recontact him for a
18 future date.

19 THE COURT: So noted. We have -- is it
20 expected that your witness will be here for 9:30 or --

21 MR. CLEMENTS: She will be here this
22 evening, Your Honor. So there won't be any difficulty
23 with her presence so whatever your convenience is.

24 THE COURT: All right. I can give you
25 first dibs. You can either go first or we have it
26 looks like only four docket matters tomorrow. So they
27 can come in and get finished with that, I would think,
28 rather quickly and then I'll be ready for you unless
29 y'all want to come first.

30 MR. CLEMENTS: Your pleasure, Your Honor.

31 THE COURT: We'll just come at 9:30 and see
32 who is ready, in whatever order seems to be reasonable

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1 in the morning at 9:30.

2 MS. ESTIPONAL: Thank you, Your Honor.

3 MR. CLEMENTS: Thank you, Your Honor.

4 THE COURT: Any other matters? I think

5 that should take care of it. I think there are a

6 couple of matters, at least one housekeeping thing

7 that was brought up. Mr. Clements, it had something

8 to do with you, and I'm only mentioning it because we

9 said we'd address it later, and because I don't off

10 the top of my head remember exactly what it was.

11 Maybe counsel can make a note and we be sure that we

12 address it on tomorrow before we finish. I don't know

13 what it was. It was something that came up.

14 MR. CLEMENTS: You think it was something I

15 perhaps raised?

16 THE COURT: You did.

17 MR. CLEMENTS: I'll try to review my notes.

18 THE COURT: I'll do the same.

19 MR. CLEMENTS: We did have one other

20 witness that was going to come today and that was Mary

21 Labateau and I think we explained to you at the bench

22 that there was a mix up that she was not coming and

23 we'll arrange for a future time. Something else?

24 THE COURT: It was something unrelated to
25 that even, but we'll endeavor to find out what it was.
26 Let's see, have you started looking at future dates
27 to --

28 MS. ESTIPONAL: We have not, Your Honor.

29 THE COURT: Ms. Estiponal and Mr. Sweeney,
30 I believe on yesterday you asked me about maybe
31 visiting on some other cases we have that are not
32 related to Code, and I was thinking that we would be

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1 in court some today, if you have your calendars and
2 you want to come upstairs when you leave from these
3 proceeding and visit with me, and certainly your
4 co-counsel are welcome to come as well.

5 Maybe we can visit with those on today and
6 get that done.

7 MS. ESTIPONAL: That's fine with the State,
8 Your Honor.

9 MR. SWEENEY: That's fine with us.

10 THE COURT: Maybe also look at some dates
11 if not I guess confirm any particular dates maybe have
12 an idea of what we are looking at. That being said
13 and done the Court is in recess for the rest of the
14 day.

15 (Whereupon, the witness was excused and
16 the proceedings were concluded.)

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1 C E R T I F I C A T E

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5 STATE OF LOUISIANA :

6 PARISH OF CADDO :

7

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9 I, Christen Sutherland, Certified Court

10 Reporter for the First Judicial District Court, in and

11 for Caddo Parish at Shreveport, Louisiana, do hereby

12 certify, to the best of my ability, that the foregoing

13 pages are a true and correct transcript of the

14 testimony given and the proceedings had.

15 SUBSCRIBED AND SWORN TO this the 27th day

16 of August, 2004.

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22 REGISTERED PROFESSIONAL REPORTER
23 NOTARY PUBLIC ID# 67848
 LOUISIANA NUMBER 22009
 POST OFFICE BOX 4072
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