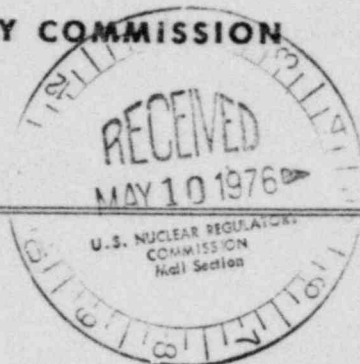


Regulatory Docket File



NUCLEAR REGULATORY COMMISSION



IN THE MATTER OF:

TOLEDO EDISON COMPANY and
CLEVELAND ELECTRIC ILLUMINATING CO.

Docket Nos.

(Davis-Besse Nuclear Power
Station, Units 1, 2 and 3)

50-346A

50-300A

50-501A

and

CLEVELAND ELECTRIC ILLUMINATING
CO. et al.

50-440A

50 441A

(Perry Nuclear Power Plant, Units
1 & 2)

Place - Silver Spring, Maryland

Date - Friday, May 7, 1976

Pages 9004

9179

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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In the Matter of

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TOLEDO EDISON COMPANY and
CLEVELAND ELECTRIC ILLUMINATING CO.

5

(Davis-Besse Nuclear Power Station
Units 1, 2 and 3)

6

7

and

8

CLEVELAND ELECTRIC ILLUMINATING CO.
et al.

9

(Perry Nuclear Power Plant
Units 1 and 2)

10

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13

First Floor Hearing Room
7915 Eastern Avenue
Silver Spring, Maryland

14

15

The hearing in the above-entitled matter was
reconvened, pursuant to adjournment, at 9:30 a. m.,

16

17

BEFORE:

18

MR. DOUGLAS RIGLER, Chairman

19

MR. JOHN FRYSLER, Member

20

MR. IVAN SMITH, Member

21

APPEARANCES:

22

(As heretofore noted.)

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C O N T E N T S

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bw

Witness

Direct

Cross

Re-direct

Re-cross

VOIR
DIRE

Wilbur Slemmer

cont'd
9003

9152

9173

9178

(further)

Exhibits

For Identification

In Evidence

P R O C E E D I N G SEAK:dwl
Sl1
2 Whereupon,

3 WILBUR SLEMMER

4 resumed the stand and, having been previously duly sworn
5 was examined and testified further as follows:6 MR. REYNOLDS: Has the Board had a chance to
7 look at the letter that the Department submitted last
8 night from Mr. Lewis to Mr. Berger?

9 CHAIRMAN RIGLER: Briefly.

10 MR. REYNOLDS: I guess I would like to have
11 that resolved today.12 Ohio Edison's case is scheduled for next week
13 and there is material I think if we could --- if the Board
14 should determine that Ohio Edison is entitled to
15 look at it under a protective order, they would like to see
16 it prior to the time they commence their case.17 Given the timing of communications and whatnot,
18 it would be helpful to resolve that today.19 CHAIRMAN RIGLER: There is no controversy as to
20 search of the files. The conflict relates to the Orrville-
21 Ohio Power file; is that correct.

22 MR. REYNOLDS: That is correct.

23 CHAIRMAN RIGLER: The Board would be perfectly
24 willing to examine that file in camera and, irrespective
25 of whether we think the documents are confidential, we"

bw2

1 also be receptive to entering an appropriate protective order.

2 I would think the thing to do is for the parties
3 to see if they can agree on a protective order and to submit
4 one to the Board.

5 MR. CHARNO: That procedure is acceptable to
6 the Department.

7 CHAIRMAN RIGLER: I assume the people who would
8 be examine the file would be the outside counsel for
9 Ohio Edison; is that correct, and also for all Applicants,
10 Mr. Reynolds and his firm.

11 MR. REYNOLDS: That is correct.

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1 CHAIRMAN RIGLER: I would think, as long as a
2 protective order provided that the information could not be
3 transmitted by any of the outside counsel back to officials
4 of Ohio Edison, that the purposes of Mr. Lewis's request for
5 confidentiality would be served.

6 MR. CHARNO: That sounds reasonable. We have no
7 reason to believe that won't be adequate.

8 CHAIRMAN RIGLER: Why don't the parties try to
9 agree on a protective order.

10 If you want us to look at the documents in camera
11 we will. Without seeing them, it seems to me they may be
12 sufficiently related to the general subject matter so that
13 it would be fair and appropriate to let Ohio Edison counsel
14 at least look at the file.

15 MR. REYNOLDS: Also, I would assume if there were
16 were matters that were deemed relevant to put into the pro-
17 ceeding, we could put them in on a sealed basis. We are
18 amenable to keeping it as confidential as possible but for
19 outside counsel from Ohio Edison.

20 CHAIRMAN RIGLER: All right.

21 MR. REYNOLDS: Thank you.

22 CROSS EXAMINATION (cont'd)

23 BY MR. LESSY:

24 Q Mr. Slemmer, with respect to your previous testi-
25 mony as an expert witness, you indicated you had testified

1 before the Corporation Commission of Oklahoma in connection
2 with a hearing to determine service area territorial locations.

3 Could you identify for us, please, with specificity
4 that particular testimony and the hearing involved?

5 A I don't have a docket number or anything of that
6 kind. This was, I think, the Oklahoma legislature required
7 the Corporation Commission to assign service areas. The
8 commission had issued an order to the companies and the
9 electric coops giving a basis for them to allocate,
10 set up their allocation of areas. Each were preparing maps
11 for what they thought was their area, and the order was based
12 on distance from distribution facilities.

13 The question that I was asked about was a distinc-
14 tion between the transmission function and distribution
15 function of certain facilities as they affected that alloca-
16 tion of area.

17 Q What period of time was this?

18 A It was around five years ago.

19 Q Do you remember any of the coops involved?

20 A I think all of the coops in the state of Oklahoma
21 were involved. The area that I was particularly interested
22 in was in southeast Oklahoma and what used to be the South-
23 western Light & Power Company. It is now the Public Service
24 Company of Oklahoma. It was around Duncan and Lawton.

25 Q When you testified before the Corporation Commission,

1 on whose behalf were you testifying?

2 A Public Service Company of Oklahoma.

3 Q How do you go about determining, Mr. Glanzer,
4 whether a practice is a general industry practice?

5 A Well, it is a matter of whether a number of people
6 are using it. I don't know of any specific definition that
7 says you have to have a certain number of people using it. If
8 more than one or two or three people are using it, maybe
9 that would make it a general industry practice. It depends
10 on how many cases there are, as well as how many people are
11 using the practice.

12 Q Have you made any surveys to determine how many
13 people are engaging in a specific practice or how many or not?

14 A Not in any specific surveys, no.

15 Q What engineering expertise are you using in deter-
16 mination of whether or not a practice is a general industry
17 practice?

18 A I don't think that is so much -- well, the engi-
19 neering expertise, of course, is recognizing the engineering
20 and operating practices and being able to define them. I
21 think whether it is a general industry practice or not is more
22 of a matter of experience in the field rather than a particular
23 engineering application.

24 Q But if I understand your answer, if more than one
25 entity is engaging in a practice, you would consider that a

ch 4

1 general industry practice.

2 A Not necessarily more than one. If a significant
3 portion of the industry is; if there are ten people that are
4 doing a certain job and three of them are doing it a certain
5 way, that would indicate some generality of that practice. I
6 wouldn't expect all ten of them to be doing it the same way.

7 Q How would you determine that three were engaging
8 in it the same way and seven weren't?

9 A As I said, I have not made any specific survey
10 to count the number of people doing it this way or that way.
11 From my general experience in the industry, I have a pretty
12 good feel of how people are doing in poolings and some idea
13 of how they are doing it, the basic principles. I would not
14 say I was familiar with all of the details of all of the
15 contracts.

16 Q All of the details of all of the contracts of what

17 A Of the power pools, different power pools.

18 Q Is it subjective or can you look at the proportion
19 and say because it is 30 percent you would say it is a general
20 industry practice? You said three out of ten.

21 A It is subjective.

22 Q If one out of ten did it, it still could be a
23 general industry practice, as I understand one of your previous
24 answers. Is that right?

25 A Under certain circumstances, yes.

ch 3

1 Q If nine out of ten did it another way, it wouldn't
2 be a general industry practice?

3 A It might be a general industry practice at the
4 moment, but it might be a practice that is going out of use or
5 something of that type. I think a general industry practice
6 includes the trend in the state of the art in the industry.

7 Q Now, on page 17, lines 15 through 18 of your
8 testimony, you state, "Most pool arrangements with which I
9 am familiar are premised" -- I'm sorry.

10 Let's go to page 17, line 22. You state, "In
11 addition the pool usually includes some arrangement for uti-
12 lizing the members' respective burdens of supplying operating
13 capacity or spinning reserve."

14 Now, my question is, is the word "burdens" as
15 you have used it synonymous with the word "cost"?

16 A I didn't have in mind exactly the same thing. They
17 are very similar. To me, the burden is, I think -- perhaps
18 a better word there would be the responsibility or the require-
19 ment that they do that. It would entail costs.

20 Q It would entail costs. Does "burden" mean more than
21 "costs"?

22 A I think it means accepting your responsibility to
23 perform a certain act, yes.

24 Q I am trying to understand your answer. Does
25 "burden" mean more than "cost"?

ch 6

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A Yes.

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Q If "burden" means more than "cost," how would you

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go about measuring or determining the burdens so that you could

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equalize them?

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A Well, the burden is the responsibility of providing

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reserve. You equalize it by equalizing the amount of reserve

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that they have to provide on some equitable basis.

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1 Q Well, would the --

2 A The burden is really the responsibility of
3 providing reserves.

4 The cost is a resultant -- result of the
5 way they provide it.

6 Q Would the burden be equalized with respect
7 to reserves, with respect to absolute amounts or in
8 proportion to something?

9 A In proportion to something.

10 Q What would they be made proportional to?

11 A I think I have testified in here that I think
12 the amount supplied should be in proportion to the amount of
13 use.

14 In other words, you should supply and use about the
15 same proportion of the total reserve.

16 Q If equalizing the burdens is proper for operating
17 capacity or reserves, as you have just said, why wouldn't
18 it also be proper for allocating the cost of interconnection,
19 or would it?

20 MR. REYNOLDS: Could I have that question back?

21 (Whereupon, the reporter read the
22 pending question, as requested.)

23 THE WITNESS: You mean the cost of making the
24 interconnection facility itself?

25

bw2

1 BY MR. LESSY:

2 Q Yes.

3 A Well, I think in the specific case of
4 equalizing the burden of operating reserve, the fact that
5 you have equalized the burden of operating reserve that
6 specifies the net benefit or the benefit that is to be
7 received from that, so that is no longer a consideration.

8 In the case of making an interconnection itself,
9 you have to consider the net benefits for all of the parties
10 concerned in making the interconnection.

11 MR. LESSY: I will ask you to read that back.

12 (Whereupon, the reporter read from the
13 record, as requested.)

14 BY MR. LESSY:

15 Q I would like you to read the question back
16 to him and ask if you can answer it again, this time in
17 terms of burdens, as the question was posed, not benefits.

18 (Whereupon, the reporter read from the record
19 as requested.)

20 BY MR. LESSY:

21 Q If equalizing the burdens is proper for spinning
22 reserve or operating capacity, why wouldn't it also be
23 proper for allocating the cost of an interconnection?

24 A Because, in allocating the cost of an
25 interconnection, you have to consider also the net benefits,

bw3 1 as well as the burdens, in order to provide an incentive
2 for the people to participate.

3 Q But it is not necessary to do that in the case
4 of reserves; is that right?

5 A In reserves, the benefit is inherent in the fact
6 you are providing the reserves you need to serve your load
7 with a certain reliability.

8 The benefit is already explicit in the item.

9 CHAIRMAN RIGLER: Say that again.

10 THE WITNESS: In the operating reserve the
11 benefit is that you are providing the reserve necessary
12 for the reliability of your system, so that the benefit is
13 not a matter to be considered.

14 That is already established. All that is left
15 then is the burden part of it.

16 CHAIRMAN RIGLER: Let me hear his answer one
17 more time.

18 Whereupon, the reporter read from the
19 record as requested.)

20 CHAIRMAN RIGLER: The trouble I'm having is
21 that your answer seems to talk suddenly in terms of an
22 isolated system. You are talking about establishing
23 reserves sufficient for your own system needs. The question
24 have dealt with pooling. It seems we keep sliding from one
25 concept to another.

Lw4

1 Mr. Lessy indicated he started talking about
2 burden, and now we are talking about benefits. And then
3 when he asked you about that, suddenly it seems your answer
4 moved from a pool concept to a single system concept.

5 MR. ZAHNER: The question related to an inter-
6 connection, which is not a pooling, and that is the reason
7 why he dealt with a specific system.

8 I'm confused by your reference to a pool,
9 because Mr. Lessy's question dealt with an interconnection,
10 and it was in that context that Mr. Slemmer responded.

11 CHAIRMAN RICLER: That is because we started
12 on line 22, which discusses pool concepts.

13 MR. ZAHNER: The question Mr. Lessy asked
14 went from that pool concept to an interconnection, and it is
15 in that sense he answered.

16 MR. LESSY: In the context of that question
17 of page 17 of the testimony, the question really is the
18 same to say if equalizing the burdens is proper for
19 operating capacity or spinning reserve in a pool context,
20 why wouldn't it also be proper for allocating installed
21 capacity or installed reserves in a pool context?

22 THE WITNESS: My answer is simply that in the
23 first case you mentioned where it is operating reserve,
24 that the benefits have already been allocated, so that you
25 don't have to consider that any more. All you have left

bw5

1 to indicate is the burden.

2 In the basis of interconnection you have not
3 specified the benefits to be received by the parties, so
4 you have to include the benefits in your determination of
5 allocation.

6 BY MR. LESSY:

7 Q The question I just asked, though, limited
8 to the pool context, if equalizing the burdens is proper
9 for operating capacity or spinning reserve in the
10 context of a power pool, why wouldn't it also be proper
11 for installed capacity or installed reserves in the context
12 of a power pool, which is what you have testified to?

13 A This is the first time I have gotten the installed
14 capacity concept. Maybe I missed your question before.

15 MR. ZAHLER: May I ask for the reference
16 to the testimony as to installed capacity and installed
17 reserves?

18 MR. LESSY: The line started with page 17, line 27.
19 In addition the pool usually includes some arrangement
20 for equalizing the members' respective burdens for
21 supplying operating capacity or spinning reserve.

22 MR. ZAHLER: I understand that. Your question
23 you stated to Mr. Slemmer, he testified one way or another
24 as to allocation of installed capacity and installed
25 reserves. I'm asking you to refer Mr. Slemmer to that

bw6 1 specific testimony, if it is in your question.

2 MR. LESSY: He testified to operating
3 capacity and spinning reserves, and the question
4 is, why isn't it also applicable to installed capacity
5 and in stalled reserves? That is my question.

6 THE WITNESS: I am lost at this point.

7 May I have the question again?

8 (Whereupon, the reporter read the pending
9 question, as requested.)

10 THE WITNESS: On the same basis that I have
11 referred to in the operating reserves, this is
12 not equal in megawatts or in percentages. It is equal
13 in -- appropriate to some ratio of pervasion and use.

14 Then it is appropriate.

15 In the case of the installed capacity part of
16 it.

17 BY MR. LESSY:

18 Q Do I interpret your answer that allocation of
19 prospective burdens is appropriate in spinning reserves,
20 but not appropriate in installed capacity or installed
21 reserves?

22 A They are both appropriate on the basis of
23 allocating it in proportion to the -- the burden in pro-
24 portion to the use.

25 Q Now, let's go back. Let's go one step further.

bw7 1

2 If it is appropriate for--as you have just
3 said, why isn't it also appropriate for allocating the
4 cost of interconnection?

5 A The interconnection is justified. The benefits
6 include more than spinning reserve and installed reserve.

7 In order to come to some conclusion as to how the
8 costs should be allocated, you have to consider all of the
9 things that have to be accomplished by that
10 interconnection, which includes a host of other things,
11 besides the operating and installed reserve.

12 Q You testified yesterday that benefits should
13 be in proportion to the complications a new member would
14 add to a pool.

15 What proportion is necessary, one to one,
16 two to one?

17 A I did not intend to indicate any fixed ratio.
18 What I had in mind was that the benefits should be enough
19 to exceed the burdens that are put on the -- both
20 the members in the pool and the new member. So that
21 there is a net benefit of share sufficient to make some
22 kind of incentive for the people to get together and do the
23 job.

24 Q Net benefit from the point of view of both
25 parties, not just from the point of view of one?

A From the point of view of all of the parties

bw8

1 concerned.

2 After all net benefit.

3 CHAIRMAN RIGLER: Would receipt of revenues
4 from the new member be counted as a benefit?

5 THE WITNESS: Receipt of revenue is a benefit.
6 I think if it is just a matter of receipt of revenues,
7 then some other arrangement is more desirable than a
8 pool arrangement. The pool arrangement is too complicated
9 for that type of situation.

10 MR. LESSY: Could I ask you to read back his answer
11 on my question as to proportions?

12 (Whereupon, the reporter read the record
13 as requested.)

14 BY MR. LESSY:

15 Q If it is not proportional, isn't it really
16 subjective, rather than an engineering matter, to assess
17 the benefits, as you have stated?

18 MR. ZAHLER: What is not proportional?

19 May I also ask if you can give us a reference
20 in the transcript to Mr. Slemmer's previous testimony?

21 MR. LESSY: 8969, lines 24 and 25.

22 MR. ZAHLER: What are we talking about,
23 not proportional?

24 MR. LESSY: Proportion of benefits to
25 complications, as stated two questions ago.

bw9

1 Now, restate the question for the Witness.
2 (Whereupon, the reporter read the pending
3 question, as requested.)

4 THE WITNESS: The determination of total
5 benefits, total net benefits, including all of the cost
6 and burden, and so forth, is, I think, very much an
7 engineering matter.

8 My experience is, from there on it's a
9 matter of negotiation.

10 So that each party feels they have gotten
11 something out of it that makes it worthwhile for them to
12 get in.

13 They know what the total amount is, being
14 divided, and they work out some kind of agreement that
15 will divide it in a way to provide everybody an incentive
16 to do it.

17 CHAIRMAN RIGLER: Let me hear the first part of
18 his answer.

19 (Whereupon, the reporter read from the
20 record as requested.)

21 CHAIRMAN RIGLER: From an engineering point of
22 view, how do you determine these total benefits which
23 includes costs and burdens?

24 THE WITNESS: Of course, the classical approach
25 is to set up your alternatives, either with the

bw10 1 interconnection or without the interconnection, with the
2 pool or without the pool, whatever it is you are comparing

3 CHAIRMAN RIGLER: What is it you are comparing?
4 You say, set up the alternatives. What goes into the
5 formula?

6 THE WITNESS: I have forgotten what kind of
7 interconnection we are talking about. We are talking about
8 making some kind of interconnection.

9 CHAIRMAN RIGLER: You say, as an engineering
10 matters, these elements are fixed. You can readily
11 determine what the benefits, costs are.

12 THE WITNESS: Whatever the interconnection is that
13 we are trying to determine the burdens and costs on, you
14 would set up the alternative system development for the
15 parties involved, with and without the interconnection.

16 You would determine the cost of the interconnection,
17 cost of the operation with the interconnection.

18 You determine their cost without the inter-
19 connection to get a net benefit.

20 CHAIRMAN RIGLER: Aren't there almost an infinite
21 number of alternatives?

22 Maybe that is overstated, but aren't there always
23 several alternatives?

24 THE WITNESS: There are always several alternatives,
25 but usually in this type of operation you can get a

bwl1

1 satisfactory answer by setting up your answer pretty
2 much by judgment.

3 The refinement of the alternative itself
4 wouldnot change the overall answer.

5 CHAIRMAN RIGLER: Doesn't that go to
6 Mr. Lessy's question? It becomes subjective. There is no
7 specific engineering formula.

8 THE WITNESS: That is not my interpretation
9 of the word "subjective."

10 I think any engineering is an approximation.
11 I don't thin any engineering problem is solved down to
12 the final decimal point. There is always some approximation.

13 That same approximation is here. The amount
14 of detail you go to in the calculation in the engineering
15 problem depends on the additional work that
16 you go to for a higher degree of accuracy; it is justified by
17 the result you get from it.

18 CHAIRMAN RIGLER: I'm having trouble with
19 your answer. As I understand it now, you stated as an
20 engineering matter the benefits, burden and costs can be
21 calculates with some degree of precision.

22 I asked you how you measure one alternative
23 against another.

24 I don't understand what any of the engineering
25 components are.

bw12

1 If you can adjust the components, that you
2 don't have the degree of precision your answer
3 suggested.

4 Are the components always the same or may they
5 differ from one alternative to another?

6 THE WITNESS: The particular components
7 may differ from one alternative to another.

8 We are talking about bulk power supply
9 in the pool we are talking about.

10 That would be the generation and transmission
11 systems.

12 It would include all the facilities in that
13 system or in the alternative systems with or without
14 the interconnection.

15 Now, if you want to do a real precise job,
16 you could make a project out of it and make an
17 optimization study for both systems, so you come out with
18 the best way to do it one way, and the best way to do it
19 the other way and compare those.

20 It would make it more accurate than taking
21 a judgment figure one way and judgment figure another
22 way. However you go in the study, is a matter of judgment.

23 Whether you should put in a little more work to
24 get a better answer.

25

1 BY MR. LESSY:

F
2 Q Have you made any optimization studies with
bw13
3 respect to the CAPCO Pool?

4 A I have made no studies with respect to the
5 CAPCO Pool.

6 Q Do you feel you have done a real precise job
7 in connection with the CAPCO Pool?

8 A My assignment, in connection with the CAPCO Pool
9 was to discuss general principles and not specifics in
10 regard to the CAPCO Pool itself.

11 Q Are you in a position to render an opinion as
12 to whether or not the CAPCO Pool complies with general
13 industry practice or standards with respect to pooling?

14 A The only basis I have for such a judgment would
15 be the fact I have read some of the contracts and have read
16 some of the written material and description of the pool
17 and in the things I have read, I have seen nothing that
18 indicates it is not.

19 I have not made an exhaustive study of it.

20 Q Have you studied any of the requests for
21 access to the Pool by certain entities within the combine
22 CAPCO company territories?

23 A No, I have not. I have seen the proposed
24 license -- I don't know what you call them, the license
25 provisions or something.

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That is the only thing I have seen in that connection.

Q Policy commitments. Does that provide for access to the CAPCO Power Pool?

A I don't remember that it does.

I think it does not.

Q What -- you testified yesterday you reviewed the CAPCO memorandum of understanding.

You mentioned today that you reviewed, I believe the policy statements. What else have you reviewed in connection with your testimony, CAPCO documents?

A I read their transmission agreement. I read Lynn Firestone's paper on the reserve formula, reserve allocation, computer program and so forth.

Q Would you say that Lynn Firestone's paper on P over N reserve allocation is in accord with industry?

MR. ZAHLER: Did Mr. Stommer finish his answer?

THE WITNESS: I don't remember anything else I reviewed.

If I thought about it awhile, I might come up with more.

MR. LESSY: Go ahead. I thought you were done.

THE WITNESS: No, I don't remember anything at the moment.

bw15

BY MR. LESSY:

1
2 Q Do you feel that Lynn Fireston's paper on
3 P over N allocation of reserves is in accord with general
4 industry practice?

5 A I think it is, in this respect. When this
6 formula was developed, it was an advancement of the art.
7 It was the first time this had been applied.

8 People recognized it as that, and it has been
9 applied in other instances.

10 So the general principle is accepted. I would
11 say that perhaps that that specific formula in itself is
12 is -- well, it is not contrary to general industry practices.

13 The general concept is a general industry
14 practice.

15 Q It is a general industry practice, because
16 two reasons, as I hear you.

17 One, it is an advancement of the art and, perhaps
18 separately, it has been adopted by others.

19 A That is right.

20 Q Who else adopted it?

21 A The one I speak of specifically is the
22 ILMO Pool.

23 Q Isn't that the only one?

24 A I think that is the only one that, as far as
25 I know, the only one that has adopted it in this
particular form, the principle of equalizing on the basis

bw16

1 of use and participation, I think, is generally adopted.

2 Q Did the pool you mentioned adopt it precisely
3 or did they adopt a variation?

4 A I would guess it is a variation. I could not
5 be --

6 Q If the Firestone method were an advancement
7 of the art, would you consider that to qualify for a
8 general industry practice?

9 A We might define advancement of the art in
10 different ways.

11 Q How do you define it?

12 A In this concept, I would, because when he came
13 out with his method and had developed this program, the
14 people in the industry recognized it as a useful tool for
15 use in allocation of reserves.

16 It was recognized.

17 While it takes time to get it into actual
18 practice, it was recognized as a better way to do it than
19 we are doing it now.

20 Q How long has it been since the paper came
21 out?

22 A I think it is about seven or eight years.

23 Q I'm not sure.

24 Q Eight to ten years; would you accept that?

25 Something on that order.

bw17 1

2 Q Would you think eight to ten years would
3 give the rest of the industry a reasonable opportunity to
4 adopt it?

5 A I wouldn't think eight to ten years, that
6 everybody would adopt it.

7 There are other pools here adopting similar
8 procedures, similar approaches.

9 Q Which ones are they?

10 A PJM. The Northwest Power Pool has a kind of --
11 basically Lynn's program is an application of a
12 probability computation to determine use and probable
13 use, as a basis for allocating the responsibility to supply
14 it.

15 That general practice is pretty well recognized,
16 I think.

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EAK 4
ch 1

1 Q Do any of these other power pools use the P portion
2 of the P over N in Firestone's method as he uses it?

3 A I have a little trouble with that question in this
4 respect. I don't know what you mean by the P portion.

5 Any place that that is applied, the idea is to com-
6 pare the amount that you supply to the amount that you receive.
7 In Lynn Firestone's formula, the P is the amount you supply
8 and N is the amount you receive. If you accept that definition
9 of P and N, they accept that P portion, yes.

10 Q Your testimony is three other power pools adopt
11 that/

12 A Not specifically. They have no P over N, but
13 they adopt the general formula.

14 Q His formula is P over N. How can they have it
15 and not adopt it?

16 A The principle is application of probability compu-
17 tation to determine the probable need for the probable use
18 that a member will make of a pool reserve. Using that as a
19 basis for allocating his contribution to that reserve.

20 Q Three or more pools use the probability method, isn't
21 that right?

22 A I think there are more than that but, again, I have
23 not made a survey. I think there are more than that that use
24 it.

25 Q On page 18, line 17, of your testimony, you explain

ch 2

1 the words "leaning or riding."

2 Is this your concept, or where did you first come
3 across these words?

4 A I think I first came across these words in working
5 with utilities where one utility in an interconnected system
6 felt another utility was not holding up its end of the burden.
7 They complained about the guy leaning on him. Maybe 15 or 20
8 years ago.

9 Q Can you point us to any articles or texts or dis-
10 cussions where the concept of leaning or riding is used, other
11 than the colloquial context of somebody saying, "He's riding
12 on me"?

13 A I don't think it is a defined term in any -- as
14 far as I know, there is no classical definition of the term.
15 no.

16 Q Are you aware of any engineering texts that discuss
17 this concept of leaning or riding?

18 A No. It is not a defined term.

19 Q Are you aware of any articles, professional engi-
20 neering articles, that discuss this concept?

21 A No.

22 Q Now, if one party is able to provide more support
23 than the others in a pool, does this necessarily mean that the
24 others are leaning on him or riding him?

25 A I'm not sure I understand the question. If one --

ch 3

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let me repeat it to be sure I understand it.

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If one member of a pool is able to supply a larger proportion of the reserve than the other members in proportion to his use of the reserves, that does not necessarily mean that the others are riding him if he is adequately compensated for that.

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Q Okay.

Now, my question is, if one party has the ability to provide more support than the others, does this necessarily mean in fact the others are leaning or riding on him?

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A Not if the others are supplying their required portion.

CHAIRMAN RIGLER: They can do that either through self-generation or through purchasing?

THE WITNESS: That is right.

CHAIRMAN RIGLER: Do the purchases have to be from other members of the pool?

THE WITNESS: Not necessarily. This varies with pool arrangements.

CHAIRMAN RIGLER: Refer back to page 17, line 13 through 21 or 22. You indicate there that if the member does not meet its obligation, it will purchase its capacity from other pool members to cover its deficiency.

From what you just said, so I take it that that purchase does not necessarily have to be from other pool

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members? It can be from anywhere else?

THE WITNESS: The final purchase -- if they have not done it some place else, the final settlement would be from other pool members. If they have a deficiency, they can go out and provide it anyway they can. If it comes in after settlement, it would be from other pool members.

CHAIRMAN RIGLER: There is no necessity that deficits be satisfied from transactions within the pool?

THE WITNESS: Not unless that is a particular portion of a particular agreement.

BY MR. LESSY:

Q I would like an answer to my question.

A My interpretation of your question, so I can answer it, is, if the pool as a whole has a surplus and one member has a capability to supply reserves that is not required by the other members, he just has it. They are not leaning on him because of the fact he has more than he needs; no.

Q What I am trying to get to is, when does the leaning become a fact?

My point is, the fact one has excess doesn't necessarily mean that leaning occurs, does it?

A No.

Q If a party is providing more support than he receives, but he is paid in money for the difference, is this leaning or riding?

1 MR. ZAHLER: Are we talking about pool arrangements
2 or interconnection now?

3 MR. LESSY: This is all in the context of pools.

4 THE WITNESS: In a pool arrangement, if the parties
5 are living up to the agreements in the pool arrangement, there
6 is no leaning or riding in the pool. That is the whole basis
7 of the pool arrangement that prevents that sort of thing.

8 MR. CHARNO: Could I have the question and answer
9 back please?

10 (The Reporter read the record as requested.)

11 BY MR. LESSY:

12 Q If you answered the question, I didn't get it. I
13 don't think you answered the question. Could you answer that
14 again?

15 A You said it was in the concept of a pool. In the
16 concept of a pool, there is no leaning or riding, no. The
17 answer is no.

18 Q With respect to an interconnection, then, let's
19 turn to that. If a party is providing more support than he
20 receives but is paid in money for the difference, would you
21 call this leaning or riding as it occurred?

22 A This would depend on the adequacy of the payment.
23 If one party is purely a purchasing party in an interconnection
24 where he is purely purchasing reserve, it becomes a one-way
25 street, and the costs have to be allocated the same

ch6

1 as it would to any wholesale customer. Your basis of pricing
2 would have to be different than if there was a give and take
3 on interconnection.

4 Q In a pool, isn't a common method to prevent leaning
5 or riding to provide by contract that emergency support
6 rendered by one pool member above and beyond the amount he
7 provides may be billed at a higher cost?

8 A I don't think that is a true description of the
9 arrangement in a pool. As I testified earlier, I think in
10 all of the pools I am familiar with they start out on the
11 basis that each member is going to supply its proportionate
12 share of the spinning reserve. There is obligation there to do
13 that.

14 MR. SMITH: Is that by owning the spinning reserves?

15 THE WITNESS: The pool, the total capacity, both
16 spinning and installed, yes.

17 BY MR. LESBY:

18 Q Let's go down that road, then. I think that is
19 consistent with what you say at line 25, page 18, where you
20 state, "The proportionate use of combined reserves by a single
21 member system of a pool requires that the member systems have
22 available generating capability and transmission facilities
23 commensurate with the size and types of their respective
24 generating units and loads."

25 Is it your testimony that a nongenerating electric

1 utility with transmission could not be a contributing member
2 of a power pool?

3 A I would not say they could not. It would be a very
4 special case.

5 Q When you use the word "the generation and trans-
6 mission is required," you meant except in a special case?

7 A I meant generally required. Incidentally, I might
8 mention: that last night I had occasion to look at the FPC
9 decision on this NEPOOL arrangement.

10 MR. LESSY: I will interrupt the witness here. I
11 haven't asked him that.

12 MR. ZAHLER: Could we at least hear what it is
13 to determine whether it is relevant, and then a motion to
14 strike would be in order.

15 CHAIRMAN RIGLER: I don't think the witness can
16 just volunteer information relating back to yesterday's
17 testimony.

18 MR. ZAHLER: It may be relevant.

19 MR. LESSY: Then pick it up on redirect.

20 MR. ZAHLER: To the question. I don't know, but
21 I don't see how we can rule unless we have heard it.

22 CHAIRMAN RIGLER: What was the question.

23 (The Reporter read the pending question.)

24 CHAIRMAN RIGLER: Overruled.
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ch 8

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BY MR. LESSY:

Q Could an electric utility with generation but no transmission beyond its own distribution be a contributing member of a power pool?

A Would you repeat the question.

(The Reporter read the pending question.)

BY MR. LESSY:

Q Could an electric utility with generation but no transmission beyond its own distribution be a contributing member of a power pool?

A It is conceivable, yes.

Q Assume a power pool the size of CAPCO composed of four integrated electric utilities.

Now, two smaller electric systems, say municipal electric systems, one with a 150-megawatts, 200 megawatts of self-generation, and one with no self-generation but with transmission, requests pool membership.

Using your standard of net benefits, would you say that there could be -- could never be a net benefit to the pool by bringing these two municipal systems into the pool?

A I would not say they could never be. It would have to be studied. You have a set of conditions here that would be subject to study. I think this would not be a general case. Again, it is a special situation.

Q Could you conceive of some net benefit based on your

ch 9

1 general industry knowledge of the pool of bringing these two
2 systems into the pool?

3 A I could conceive of some situation where it might,
4 yes.

5 Q If there would be some net benefit, would you
6 recommend excluding them from coming into the pool?

7 A No, if they provide a net benefit and are willing
8 to accept the responsibility and meet the requirement, then I
9 think they should be a member of the pool.

10 Q That is irrespective of whether they are private or
11 municipal systems or cooperatives?

12 A That is irrespective of that, yes. That is irre-
13 spective of the type of ownership.

14 Q Is it possible that an electric utility could offer
15 net benefits to a pool even if that entity had both no genera-
16 tion and no transmission?

17 A I hate to say anything is impossible. You you have
18 got it limited to where it is hard to see where there would
19 be any benefit.

20 Q Suppose an electric utility had no generation or
21 transmission but had interruptable industrial loads. Couldn't
22 there be benefit to the pool by bringing the system into the
23 pool?

24 MR. ZAHLER: Could I have clarification on what
25 Mr. Lessy means by "interruptable load" if there is no

ch 10

1 generation?

2 MR. LESSY: The witness already answered the
3 question.

4 CHAIRMAN RIGLER: I ruled in your favor.

5 BY MR. LESSY:

6 Q How did you understand it in your answer?

7 MR. ZAHLER: I haven't heard an answer. If you
8 would rephrase it, I would like to know what it is referring to.

9 MR. LESSY: Do you understand the question?

10 THE WITNESS: I don't know where we are.

11 CHAIRMAN RIGLER: Start over.

12 BY MR. LESSY:

13 Q Suppose the electric utility had no generation and
14 transmission but had interruptable industrial loads. Couldn't
15 there be some net benefit to the pool by bringing that system
16 into the pool?

17 MR. ZAHLER: I object.

18 MR. LESSY: The question will be how can it have
19 interruptable industrial loads? It purchases its power at
20 the distribution level, and its customers are all
21 industrial and they are interruptable, and they have inter-
22 ruptable loads, as many industries do.

23 MR. ZAHLER: Mr. Lessy is saying the clarification
24 is that it is a wholesale customer and it purchases power and
25 distributes it.

ch 11

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MR. LESSY: It is a wholesale customer of somebody.

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It is a power purchaser, not necessarily of the people -- of the pool members with whom it is seeking membership. It is a power purchaser.

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Do you understand the question?

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CHAIRMAN RIGLER: All right.

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THE WITNESS: I understand the question.

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It seems a little -- to me, membership in a pool would be a tedious way to handle that kind of situation. There are much simpler forms of arrangements that can be made than pool membership.

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An interruptable customer is a possibility of benefit, yes.

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1 CHAIRMAN RIGLER: I have some trouble with your
2 example, Mr. Lessy?

3 why would the distribution system be sending
4 membership to the pool?

5 MR. LESSY: Buy power at cheaper cost than
6 its present wholesale supplier and to get the benefits
7 of that purchase through staggering cost action.

8 MR. CHARNO: Could I ask if the Pool under
9 consideration is coordinated development, as well as
10 coordinated operation?

11 MR. LESSY: Yes, such as CRPCO, was the example.

12 I don't want to dwell on this too long.
13 The point is it is a potential --

14 CHAIRMAN RIGLER: I don't either.

15 BY MR. LESSY:

16 Q Would it be possible to have a power pool
17 between two groups in which one group did not contribute
18 any reserves at all?

19 A It is kind of hard for me to imagine such a
20 situation.

21 I hate to say anything is impossible. I don't
22 know all of the possibilities that could be imagined.

23 The very concept of pooling is that everybody
24 puts something in the pot.

25 Q You could imagine an interconnection where
there are no reserves provided by one party, can't you?

bw2 1

A How do you define an "interconnection"?

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If it is just a tie on to his facility to sell him power,

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is that an interconnection?

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Q What about the interconnection between WVA and the South Central System? Do you have knowledge of that?

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A I have a general knowledge of it.

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Q Wasn't that interconnection made for economy interchange in seasonal peak and reserves were not of particular concern to the parties?

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A It was made primarily for seasonal interchange.

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There was an existing interconnection between the parties

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before that one was made.

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MR. SMITH: Mr. Slemmer, it would occur to me that almost any pool of -- almost any pool, that the members or potential members are quite disparate in their systems, what they have by way of generation, transmission, reserves, and that for any pool to be effective, those differences have to be made up by money; isn't that true?

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Otherwise, wouldn't you need absolutely identical participants

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THE WITNESS: That is right. Your final equalization is by payment, in any pool.

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MR. SMITH: It is a working part of any pool?

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THE WITNESS: Yes.

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MR. SMITH: Whatever one member doesn't have, it has to buy?

25

THE WITNESS: That is right.

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BY MR. LESSY:

Q Now, with reference to the Smith and Slemmer paper attached to your testimony, dealing with inter-system contracts, page 622 provides "while the contract cannot specify --

MR. ZANLER: Would you point out where on the page?

MR. LESSY: Okay.

BY MR. LESSY:

Q Bottom paragraph of the first column of 622.

It provides "while the contract cannot specify the attitudes of future management of the contracting parties, every effort should be made to discourage horse trading among the parties. A willingness to share the benefits with the other contracted parties is essential to the successful operation of an interconnection."

Does that quote mean that an electric utility should be willing to share benefits with an interconnection partner?

A Yes.

Q What happens if one party is not willing to share the benefits?

A Well, in my experience it has been that the pool finally collapses.

bw4

1 Q Isn't it a fact that during your career
2 you have only been associated with the apportionment of
3 benefits in voluntary type interconnections, that is
4 where each individual desires and willingly agrees
5 to the interconnection?

6 A I have not sat in judgment on any interconnection,
7 if that is what you mean.

8 I have not imposed any division on to any
9 pool parties.

10 Q The instances where you have worked with respect
11 to making studies and apportioning the benefits of an
12 interconnection as you have testified, aren't those instances
13 ones in which both sides desired and willingly agreed to
14 the interconnection?

15 A I would have to talk to my lawyer.

16 I testified in the Consumers' case.

17 Now, in that case I'm not sure whether that was
18 imposed or what it was.

19 So far as my actual experience in the
20 negotiation of contracts, I think it has been either
21 they negotiated a contract or the thing fell through.

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EAK 6
ch 1

1 MR. LESSY: I am going to read you a portion of
2 your cross examination in Consumers.

3 MR. ZWELER: Could you please give me a page
4 reference?

5 MR. LESSY: If you wait, it is what I was about to
6 do. It is page 3873, the question beginning at line 17,
7 and continues to 3874, line 2.

8 BY MR. LESSY:

9 Q "Question: Is it correct that in previous instances,
10 you have only been associated with the apportionment of bene-
11 fits in voluntary interconnections. Isn't that so?"

12 Then the questioner was asked to explain "volun-
13 tary." And he explained it as one in which each side willingly
14 agrees.

15 "Answer: I cannot remember any case where that would
16 not be right."

17 My question is, isn't it a fact that during your
18 career you have only been associated with apportionment of
19 benefits in voluntary type interconnections, that is, where each
20 side both desires and willingly agrees to the interconnection?

21 A At that time, I was working on a case where I am
22 not sure it was voluntary. I have to qualify my answer because
23 of that additional Consumers case. I am not sure how you
24 would classify that. I am not sure of the details.

25 Q Was that case the Consumers case?

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A. Yes.

Q. Interconnection wasn't reached there, was it?

A. I don't really know.

Q. With the exception of that one instance where an interconnection wasn't reached, isn't it a fact that in your career you have only been associated with voluntary-type interconnections?

MR. ZAHNER: Asked and answered. That is the witness' testimony.

Why are we going over this again?

CHAIRMAN RIGLER: Sustained.

BY MR. LESSY:

Q. Isn't it possible your net benefits approach is only appropriate where parties have equal bargaining strength and both desire the interconnection?

A. No, I think the fact they both desire the interconnection is a result of the apportionment of benefits to provide an incentive. I have had experience where the abilities were not of equal size or equal -- really not equal in such of any way. Still, they managed to come up with an arrangement that would provide the benefits for both parties, enough to provide an incentive to make the interconnection.

CHAIRMAN RIGLER: Mr. Sleamer, talking a little more about this paragraph from your article, page 623, which Mr. Lessy called to your attention, do the benefits of a

ch 3

1 pooling arrangement have to be proportionally the same for all
2 of the parties to the pool?

3 THE WITNESS: I don't think, again, I can't say
4 that there is a definite proportion. The only qualification
5 I put on that is that they have to be sufficient in each case,
6 for each party in the pool to provide him the incentive to
7 make the pool work.

8 CHAIRMAN RIGLER: You talk in terms of economic
9 equity. You talk then about resulting in benefits for all
10 concerned in that paragraph.

11 THE WITNESS: Yes.

12 CHAIRMAN RIGLER: Does the phrase "economic equity"
13 suggest that the benefits have to be reasonably distributed
14 among the members, or can one member benefit far more than
15 another member?

16 THE WITNESS: I think if there is too much dif-
17 ference in the proportional -- the way it is divided among
18 the members, one member is going to lose his incentive.

19 CHAIRMAN RIGLER: If one member benefits to a degree
20 of 2 percent and the other members are benefiting to a degree
21 of 50 percent, that pool operation would not meet your criterion?

22 THE WITNESS: Well --

23 CHAIRMAN RIGLER: Expressed in this paragraph.

24 THE WITNESS: I hate to take it down to a particular
25 percentage in mind. Your 2 percent and 50 percent, I would think

ch 4

1 the man with 2 percent there would be doubt as to his incentive
2 to make the pool work. If it is sufficient in his mind that
3 he is willing to get in and do it, then it is satisfactory.

4 CHAIRMAN RIGLER: It is satisfactory?

5 THE WITNESS: If it is sufficient to give him the
6 incentive to get in and make the pool work.

7 CHAIRMAN RIGLER: So that there may be disparity
8 of benefits among pool members as long as each member receives
9 a benefit?

10 THE WITNESS: Receives a significant net benefit.

11 CHAIRMAN RIGLER: Now, you say "significant."

12 THE WITNESS: I am still trying to stay with the
13 idea that the benefit to each member individually has to be
14 sufficient to give him the incentive to do his part of the
15 job of making the thing work.

16 CHAIRMAN RIGLER: Are you saying that has to be a
17 significant benefit?

18 THE WITNESS: Well, significant in terms that it is
19 something that will motivate him to do it, yes. Again,
20 "significant" is not a very precise term.

21 CHAIRMAN RIGLER: Well, the problem I am having is
22 that you told me when one tried to analyze the distribution of
23 benefits, one did it on an alternative comparison basis.
24 That is, one looked at one's set-up without the pool and
25 measured that against one's set-up within the pool.

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And it seems to me that one could conclude that there was enormous disparity of benefits and that one party might get only the little 2 percent benefit range that I have suggested and, still using your alternative theory, he would be getting a benefit.

So I don't see that the significant benefit squares with your alternative theory.

THE WITNESS: My alternative theory, we were talking about determining the total net benefits to all people. That was what I was doing on the basis of alternatives.

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1 CHAIRMAN RIGLER: But individual members don't
2 receive by using the same alternative analysis you have
3 described?

4 THE WITNESS: After you determine the benefits for
5 everybody, the distribution of these benefits among the
6 members is normally a matter of negotiation.

7 Each member will make his own determination
8 of what his benefits are, and whether it is enough to justify
9 his participation.

10 CHAIRMAN RIGLER: But suppose one of these members
11 determined that he would benefit less than the others
12 to a noticeable degree, but he would still benefit as
13 opposed to not being in the pool, at all?

14 THE WITNESS: If it is enough to give him the
15 incentive to get in, that is sufficient.

16 I don't think it has to be absolutely an "even
17 Stephen" deal.

18 CHAIRMAN RIGLER: It could be much worse than
19 not absolutely "even Stephen."

20 There could be enormous disparity in this.

21 THE WITNESS: This gets to be a bargaining
22 position, yes.

23 CHAIRMAN RIGLER: All right.

24 BY MR. LESSY;

25 Q So the ultimate decision as to whether or not

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1 there was enough incentive to go forward might depend
2 on the relative bargaining strength of the parties; wouldn't
3 it?

4 A. Not --- I don't think that was what I intended to
5 imply.

6 The ultimate decision is whether each party thinks
7 that the bargain that is arrived at gives him enough
8 benefit that it is to his advantage to go ahead and do it.

9 Q. If he can extract a greater benefit not doing
10 it, then he is not going to do it, is he?

11 A. If there is a greater benefit by not doing
12 the pool in the first place, the pool shouldn't be there.

13 Q. If one member could obtain a benefit by
14 joining the pool, but by not joining this particular
15 pool he might feel that his options were greater,
16 then he wouldn't join the pool, would he, notwithstanding
17 the whole analysis might yield net benefits?

18 A. I have trouble with your question in this respect.
19 If his benefit, not joining the pool is greater than his
20 benefit in joining the pool, he has a negative net benefit.

21 In order to have a benefit, the pool has
22 to be better for him than his other alternatives.

23 Q. Now, on page 21, line 7 through 10. You state
24 that the tendency was, and that time frame was 1965, '65,
25 to look askance at a major utility that was not participating

bw3

1 in some pooling arrangement in the belief that it was passing
2 up an opportunity to serve its customers better at a lower
3 cost.

4 Was that your view in 1964-65?

5 A. I think I shared that view, to some extent, yes.

6 Q. Do you have that same view now?

7 MR. ZAHLER: Is that his view now, as to what
8 the situation was in '64 or his view now today?

9 BY MR. LESSY:

10 Q. In 1976, do you have the same view?

11 MR. ZAHLER: As to what it was before or
12 today?

13 MR. LESSY: As of today, you would look
14 askance at a major utility not participating in some pooling
15 arrangement et cetera.

16 THE WITNESS: I would think a major utility
17 that was not participating in some way in a coordinated
18 agreement would have to have a pretty good reason why he
19 wasn't, yes.

20 BY MR. LESSY:

21 Q. Do you believe such opportunities to serve
22 customers better at a lower cost, quoting from your language,
23 should be denied to smaller or publicly-owned electric
24 systems ?

25 A. No, I do not.

bw4

1 Q Would you agree that a substantial
2 benefit of an interconnection is the ability for either or
3 both systems to reduce their respective reserve margins?

4 A I think this is a generalization that I would have
5 to have particulars on. It may be that the overall
6 benefit would be to increase unit size and maybe actually
7 increase their reserves' margins. You would have to get
8 into the particulars of the planning for that particular
9 pool.

10 Q Based on general industry practice, don't two parties
11 go forward on an interconnection agreement many times to
12 achieve lower reserves?

13 A I think a fair description of general
14 industry practice, is that they do a little bit of both. They
15 go to larger unit size and they don't take all of their
16 benefit that way.

17 They also take some in reduces reserve.

18 Q Is reduction of reserve a substantial net benefit
19 of an interconnection in many instances?

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EAK 8
ch 1

1 A Just at the moment, I don't have any figures in
2 front of me that I could say it is or is not substantial. It
3 is one of the things that has to be considered, definitely.

4 Q If one of the parties to an interconnection imposed
5 a reserve formula on the other party so that the second party
6 was not able to reduce its reserve margins, then a potential
7 substantial benefit to the second party would have been negated.
8 wouldn't it?

9 A Is this in the context of a pool, now?

10 I am not sure where we are in the industry.

11 Q Interconnection was the question.

12 A Interconnection between two people?

13 Q Yes.

14 A One party is insisting if they are going to have
15 an interconnection the other party is going to have to carry
16 a specific reserve?

17 Q Right. Basing that on certain calculations or
18 formula.

19 A Your question is, does this deprive one party of --

20 Q Wouldn't that deprive one party of a potential
21 substantial benefit?

22 A It may impose on him a potential benefit because
23 it might increase his reliability. The only reason one party
24 would impose a higher reserve requirement on another party would
25 be to get his reliability up where it would be acceptable to the

ch 2

1 pool, to the two together. So it might cost him money.

2 On the other hand, it might be a benefit in that
3 his service reliability would be increased. You have to
4 look at the thing as a whole.

5 Q Maybe you didn't understand the question.

6 Let's talk about a pool.

7 One of the parties wants to join a pool. A party,
8 let's say, wants to join CAPCO. And one of the reasons it
9 would like to join the pool is to reduce reserves, which, you
10 have testified, in many instances occurs.

11 Now, if in so doing, the party was not able to
12 reduce its reserves, the new joining party, because of something
13 imposed by CAPCO, wouldn't that deprive that party of a
14 potential substantial benefit?

15 A Not necessarily. Because the only reason that
16 joining the pool would make him increase the reserves is if the
17 reserves were not adequate to start with for some reason. You
18 have to look at the thing as a whole, including reliability of
19 service.

20 Q Assume the reserve is adequate. He would just like
21 to reduce it.

22 A This is a contradictory assumption. If his reserve
23 is adequate, the pool would not result in his increasing his
24 reserve.

25 Q You don't think the CAPCO P over U formula could

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result in a party having sufficient reserve margins, by joining the pool, to increase the reserve?

A Not if there is no other change in the make-up of the parties' system.

Q On page 23, starting with lines 6 through 10, you indicate, "You must take into account, among other things, transmission facilities to make an accurate assessment of reliability."

A That is right.

Q Does the CAPCO P over N method take into account transmission facilities?

A The P over N is just one portion of the total CAPCO agreement. The total CAPCO really takes into account the transmission facilities.

end 3

S9
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1 Q Your answer is P over N does not?

2 A That was not my answer, no. The P over N formula,
3 the way the CMPCO uses it, is based on the assumption
4 that transmission facilities are adequate per se in
5 that P over N formula.

6 They go ahead with the transmission
7 agreement and they assure themselves that the transmission
8 is adequate.

9 I would say it does recognize transmission
10 because that is one of the inputs to the program.

11 Q It does take into account, because it assumes
12 adequate transmission?

13 A And further, the fact that the rest of
14 the deal provides that that adequate transmission will
15 be provided.

16 You can't put everything in one tool. You
17 have to have two or three tools to do the job.

18 P over N formula is just one of the tools.

19 CHAIRMAN RIGLER: Now, page 24, line 17, the
20 question is, does not such a formula which requires
21 a system install a larger unit to provide more
22 reserve, burden the small system? That is a shortening
23 of the question.

24 Now, your answer is that such a formula reflects
25 the engineering facts of life.

bw2

1 Are you suggesting that smaller systems usually
2 install larger units than larger systems?

3 A My experience has been that a small system,
4 just the economics of size and so forth, a small system would
5 use units of a higher proportion, higher percentage of their
6 total load than a large system.

7 In that respect, yes, they install larger units.

8 Q Larger proportional units?

9 A Larger proportional units.

10 Q What you mean, is larger proportional units,
11 rather than larger units; isn't that right?

12 A What was that reference again?

13 Q The answer to the question beginning on line 17,
14 page 24.

15 A I think the larger unit in that question referred
16 to larger units than that system had been using before,
17 in megawatt rating.

18 Q If the large units can be divided among several
19 small systems who are directly interconnect or who
20 have transmission service, doesn't that eliminate the burden
21 on the small system?

22 A This is a, shall I say, a debatable question
23 at the moment in the industry.

24 How to treat a jointly-owned unit in
25 reserve determination. In my opinion the right way to

1 do is to take that burden that the larger unit places
2 on the total pool and divided that burden in proportion to
3 ownership, rather than take a particular piece and say, there
4 is a unit of a particular size.

5 Q How does CAPCO do it?

6 A CAPCO does it the latter way. If I were the
7 expert from CAPCO, I would tell them maybe they should
8 do that a little differently.

9 It is done both ways.

10 Q So CAPCO does divide the large unit into
11 portions; is that right?

12 MR. ZAHLER: That is to the Witness' knowledge?

13 MR. LESSY: Any question as to the Witness'
14 knowledge.

15 THE WITNESS: That is my opinion. As I have said
16 before, I'm not an expert on the CAPCO agreement.

17 There will be another witness, I think, who can
18 tell you all about CAPCO.

19 BY MR. LESSY:

20 Q That is your understanding?

21 A My understanding is that they do it on
22 proportionate basis.

23 Q Why is it an engineering fact of life that
24 CAPCO can divide units among small systems that small
25 systems shouldn't be able to?

A Would you refer us to the testimony you are

1 speaking of?

2 Q The answer, beginning on line 21 on page 24.

3 A May I have the question again?

4 (Whereupon, the reporter read the
5 pending question, as requested.)

6 MR. LESSY: I misspoke myself.

7 THE WITNESS: I think you misspoke.

8 CHAIRMAN RIGLER: Let's not both talk at
9 once.

10 BY MR. LESSY:

11 Q Why isn't it also an engineering fact of
12 life, if CAPCO can divide units among themselves, among
13 the members of CAPCO, it is controversial in the industry
14 as to whether small systems should be able to?

15 A I don't think that is what I said. I said
16 it is controversial in the industry as to whether the best
17 way to handle it is to divide it among reserves,
18 as a piece of the unit and set it up as a separate
19 unit of that size or take the total burden imposed on the
20 system, as a whole, by that unit and divide that.

21 I don't think there is any difference in the
22 way it would apply to CAPCO or small systems.

23 It would be applied in the same manner.

24 MR. ZAHLER: Would this be an appropriate time to
25 take a break?

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CHAIRMAN RIGLER: I think so.

(Recess.)

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EAK 10

ch 1 1

BY MR. LESSY;

2 Q Mr. Slemmer, could you briefly explain to us the
3 use of the split savings method in the context of economy
4 energy?

5 A The split to savings method on an economy inter-
6 change, you determine the actual cost, incremental cost to the
7 party that supplied the energy, and that is one element.
8 Then you determine the value to the company who received it.
9 That is, what it would have cost him if he had to make it
10 himself.

11 The difference of those is the saving, and the
12 pricing, then, would be half way between those two.

13 Q Now, if economy energy is compensated for within a
14 pool on a split to savings basis, doesn't the supplier of the
15 energy receive even a greater profit if the other party has
16 higher generating costs?

17 A Yes. Yes.

18 I would like to back up a little bit there. I am
19 not sure what you mean by profit. We are getting into a new
20 term, again. The difference between his incremental cost and
21 his price is higher, yes.

22 Q I will accept that.

23 So it would be an advantage to the seller within a
24 pool if the supplier, as the term I used, in the pool, the
25 person to whom the economy energy is exchanged or sold to had

ch 2

1 higher generating cost.

2 A. I would not generalize it to that extent, because
3 the next hour he may be buying from that, and then he would
4 want it to be lower. This is back and forth from hour to hour.

5 I don't think you can say there is advantage for
6 the other fellow to have a higher cost. The overall advantage
7 would be for everybody to have lower costs.

8 Q. You have testified on page 28, lines 19 through 21,
9 that in your view, participation in a staggered construction
10 program requires mutual benefits. And the two requisites --

11 MR. ZAHLER: Could you tell me where it says
12 there has to be mutual benefits from staggered construction?

13 MR. LESSY: Line 21, "If staggered construction
14 is to be mutually beneficial, each system must have" --

15 MR. ZAHLER: That is different than it is to be
16 mutually beneficial. He then gives the conditions under which
17 it would be mutually beneficial. That is different from the
18 question you asked him or your characterization of his testi-
19 mony.

20 MR. LESSY: I accept that.

21 I would like opportunity to finish the question
22 before you object to it.

23 BY MR. LESSY:

24 Q. In the context of the correction as Mr. Zahler
25 pointed out, that two requisites would be one--for mutual

ch 3

1 benefits would be, one, sufficient contemplated load growth
2 by each system participating, and, two, ability of the system
3 to construct units of sufficient size to provide the increase
4 in generating capacity over a significant period of time.

5 Now, specifically as to the load growth requisite,
6 suppose a system desiring to participate in a staggered con-
7 struction program had its load growth restricted by the other
8 party by either or both of unreasonable long-term capacity
9 restrictions in wholesale contracts for the sale of power and
10 eliminating access to alternative wholesale sources of bulk
11 power supply.

12 In that instance, would you still be of the opinion
13 that the smaller entity should be precluded from participating
14 in staggered construction because it didn't have sufficient
15 load growth?

16 A I think this is getting a little bit out of the
17 field of engineering economics. I don't know that we consider
18 particularly why a system doesn't have a load growth or doesn't
19 have a load growth.

20 Q Have you finished your answer?

21 A Yes.

22 Q You testified that if staggered construction is to
23 be mutually beneficial, there are two requisites. One, each
24 system must have sufficient contemplated load growth, and, two,
25 each system must have the ability to construct units of

ch 4

1 sufficient size, et cetera.

2 My question to you is suppose a system desiring to
3 participate in staggered construction program had its load
4 growth artificially restricted by the other party. And I
5 gave you two methods.

6 If that were the case, would you still be of the
7 opinion that the smaller entity should be precluded from
8 participating in the staggered construction because it
9 didn't have sufficient load growth?

10 A This, again, the particular reason that a system
11 does not have load growth does not enter into its ability to
12 receive or deliver benefits from staggered construction.
13 The reason for it not having load growth is entirely a separate
14 problem.

15 In order for the staggered construction to be benefi-
16 cial, the system has to be able to use the capacity it puts
17 in or a period of time, or it is stuck with a big unit it
18 doesn't use. I can't see the connection between cause and
19 effect here.

20 Q Are you of the view that a system must have suf-
21 ficient contemplated load growth to participate in staggered
22 construction, and that requisite would apply in the instance
23 when the system's load growth was not sufficient because it
24 had artificially been restricted by the other party?

25 A I think you left out part of my testimony. In

ch 5

1 order for it to receive benefits, it has to have sufficient
2 load growth. That is regardless of the reasons it doesn't
3 have load growth, it would not receive benefits.

4 I don't think the reason that the load isn't growing
5 has anything to do with the benefits it receives. That is all.

6 Q Let me put it this way. With respect to your
7 analysis of mutual benefits in terms of staggered construction
8 and the requisites for participation, are you assuming there
9 are no artificial restrictions on load growth?

10 A Well, this particular determination per se would
11 probably be based on the system's own estimate of its load
12 growth. I would not necessarily have any knowledge of what
13 the basis of that was. To determine the load growth would be
14 a different study.

15 Q If someone came to you and said -- a small system --
16 and said, "We want to participate in staggered construction,"
17 and you looked at their system and you found their load growth
18 was not sufficient, and you looked further and you looked at
19 their wholesale contracts and found out that was the reason
20 why, would you still deny them staggered construction on the
21 basis that benefits would not be mutually beneficial?

22 A I would have to. I would tell them to get their
23 contract straightened out before they were involved in the
24 staggered construction, so that they could make money with
25 staggered construction.

ch 6

1 Q One benefit of denying the benefits of staggered
2 construction would be to artificially restrict their load
3 growth?

4 A I suppose that is right. I don't know. If they
5 don't have the load growth, they can't get benefits from
6 staggered construction. Any way you can restrict the load
7 growth would deprive them that benefit.

8 Q Now, as to the ability to construct, as you have
9 set forth on page 28, as a requisite for mutual benefits and
10 participation in staggered construction, the phrase is "ability
11 of the system to construct units of sufficient size to
12 provide the increase in generating capacity over a significant
13 period of time."

14 Now, what is your idea in the use of that phrase of
15 "a significant period of time"?

16 A I had nothing definite in mind. The usual concept,
17 I would say, would be from one peak period to the next. Maybe
18 six months, or whatever your next planning period is.

19 Q Now, approximately what size unit would this require
20 say, for CAPCO?

21 A I am not really familiar with CAPCO's growth pattern.

22 Q Are you familiar with the letters SLTC, capital
23 SLTC, as used by the CAPCO companies?

24 A Right at the moment, it doesn't mean anything to
25 me, no, sir.

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Q Would you accept the fact as CAPCO uses those letters, it means "short lead-time capacity."

A It sounds like a reasonable thing. Yes.

Q Do you know the installation sites of some of the SLTC units that come of the CAPCO companies are installing?

A I am not familiar with the details of CAPCO.

end 10

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1 Q Would you be surprised to know they are as low
2 as seven megawatts of electromotive of diesel units.

3 A I would not be particularly surprised, no.

4 Q Must all units in a staggered construction
5 program be large units?

6 A Well, if the unit is not as large -- large
7 enough to provide a reasonable length of load growth, it
8 not staggered construction. You would be putting them in
9 at the same time. They have to be large in proportion to
10 the system doing it to get the benefits of the particular
11 unit size.

12 MR.LESSY: Would you read back my question?

13 Hereupon, the reporter read from the
14 record, as requested.)

15 BY MR. LESSY:

16 Q Now, I don't think you answered my question.
17 The question was, must all units in a staggered
18 construction program, a whole program of staggered con-
19 struction be large units?

20 A I'm having trouble with your definition of
21 large units and program.

22 To me a program of staggered construction only
23 includes the units involved in staggered construction.

24 It doesn't involve necessarily all of the
25 other units going in on the system. To a large --

bw21 my definition of a large unit for that
2 question would be one that would supply a reasonable
3 length of load growth for the systems of staggered
4 construction.

5 With those definitions, they have to be large
6 units, yes.

7 CHAIRMAN RIGLER: Wait a minute. In planning
8 a staggered construction program, you mean that the pool
9 members do not take into account all of the generating
10 units available to each of the individual companies?

11 THE WITNESS: The other generating units may not
12 be a part of the particular staggered construction
13 program.

14 CHAIRMAN RIGLER: Don't they have to be
15 accounted for and analyzed?

16 THE WITNESS: In the overall planning for the
17 development of the system, it has to be done as a whole.
18 But you can take out two pieces of that and set up a
19 staggered construction program between two companies that
20 does not involve the whole thing. The overall planning
21 has to involve everything.

22 Staggered construction is one way of dividing
23 investment in a couple of units or more units that become
24 a part of the total.

25 CHAIRMAN RIGLER: Even for staggered construction

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1 don't you have to look at the system as a whole total
2 generating capacity, available to each of the
3 members?

4 THE WITNESS: You have to start with that, yes.

5 BY MR. LESSY:

6 Q Beginning on line 24, of page 13, you discuss
7 the concept of -- scratch that.

8 On page 29 you testified that electric systems
9 frequently engage in joint ownership or unit power purchase
10 arrangements at line 13, "outside of pooling or
11 interconnection agreements."

12 Is that true today of the CAPCO member companies?

13 A Again, my understanding of the CAPCO agreement
14 is that the agreement itself provides for joint ownership.

15 Q Again, I didn't hear the answer.

16 Let me repeat it.

17 You testified that electric systems,
18 frequently engage in joint ownership or purchase power
19 arrangement outside of pool or interconnection agreements.

20 Is that true today of CAPCO member companies,
21 outside of the CAPCO pooling arrangements?

22 A My understanding is that in the CAPCO
23 arrangement it is a part of the pooling agreement.

24 Q What is?

25 A The joint ownership or participation -- joint

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1 participation in units.

2 CHAIRMAN RIGLER: I don't think the record is
3 clear on that. You better break it down and ask if
4 CAPCO companies are engaged in any joint ownership with
5 companies outside of CAPCO, and then you better ask him a
6 second question relating to whether they have any unit power
7 purchase arrangement with companies outside of CAPCO.

8 BY MR. LESBY:

9 Q To your knowledge, does CAPCO companies engage in
10 unit joint ownership with companies outside of CAPCO?

11 A I am not that familiar with the CAPCO arrangement.
12 I don't know whether they do or no.

13 Q Do you know whether or not CAPCO
14 engages in unit power purchase arrangements outside of
15 the CAPCO pooling or interconnection agreements?

16 A Again, I don't know. I just don't know.
17 I think, however, we are misinterpreting my intention in
18 this testimony I gave before. When I said this was out
19 of the agreement, I didn't mean it was necessarily out of
20 the pool.

21 For example, in the PJM pool, the
22 Keystone Plant is owned by a number of companies that are
23 all members of the PJM pool, but it is not part of the PJM
24 Pool. It is a separate agreement for joint ownership of that
25 plant. That is what I had in mind as being out of the

bw5 1 agreement.

2 Does that clear it up or make it worse?

3 Q If, as you have testified, the owning system
4 of a large power plant, say, nuclear power plant, has --
5 that is page 30, line 7 -- "complete control over the
6 construction and operation of a unit according to general
7 industry practice," as you understand it, what is there
8 to prevent that owner with complete control, from denying
9 access to the plant or only offering access on unattractive
10 terms?

11 MR. ZAHLER: Could I have the question repeated?

12 (Whereupon, the reporter read the
13 pending question, as requested.)

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1 MR. ZAHLER: I would object. I don't think
2 that that is what the testimony says.

3 It has been mischaracterized.

4 MR. LESSY: The testimony is that the
5 owning system has complete control over not only the
6 construction ---

7 MR. ZAHLER: It says in case of a unit power
8 purchase --

9 CHAIRMAN RIGLER: One at a time.

10 Let Mr. Zahler go.

11 MR. ZAHLER: The description relates to unit
12 power purchase. The previous paragraph refers to jointly-
13 owned units. Mr. Lessy's question doesn't distinguish
14 between the two.

15 In general terms it mischaracterizes the
16 testimony to that extent.

17 CHAIRMAN RIGLER: Do you want to rephrase it?

18 MR. LESSY: I don't think it is necessary to
19 distinguish between unit power, as beginning on line 6, and
20 the previous discussion with respect to control.

21 I think it would apply to both.

22 The question is whether or not that complete control
23 over operation gives the -- complete control at lines
24 3 through 5 over design and operation and with respect to
25 unit power, the complete control over construction and
operation whether or not that control goes to the power that

bw2 1 comes out of the plant.

2 I am trying to make clear what we mean by complete
3 control.

4 The fact that there is a distinction -- the same
5 phrases are used.

6 CHAIRMAN RIGLER: Well, there is a distinction,
7 I see, between much control, which is what he testified
8 to on lines 4 and 5, and complete control, which he testified
9 to on line 7.

10 Also it seems to me there is a limitation on line 6,
11 because he clearly states he is talking about unit power
12 purchases.

13 so I think you better rephrase it.

14 MR. LESSY: Okay.

15 BY MR. LESSY:

16 Q If, as you have testified, the owning system
17 of a large power plant, say, nuclear plant, has with respect to
18 the control over the design or operating decisions of
19 a unit, not a unit power purchase, has much control, what
20 is there to prevent that owner with that control from
21 denying access to the plant or only offering access on
22 unattractive terms, according to general industry practice?

23 A May I set up the basis, as to what I understand
24 you are saying?

25 This is a company who is building a plant for

bw3

1 himself. He is doing the whole job himself, and you
2 want to know what is to keep, to prevent him from not
3 letting somebody else in?

4 Q No, because page 30, line 3, you are using the
5 word "system."

6 It is plural. I assume it is more than one
7 company.

8 MR. ZAHLER: Could we make it clear on the
9 record?

10 Mr. Lessy has left the original question and
11 gone to a different question.

12 Could we make it clear what type of ownership
13 he is talking about?

14 MR. LESSY: Would you like me to restate the
15 question?

16 CHAIRMAN RIGLER: Just say what type of ownership
17 you have in mind.

18 MR. LESSY: Joint, more than one, one system.

19 THE WITNESS: In joint ownership they have
20 access.

21 BY MR. LESSY:

22 Q IF in a joint ownership -- if two utilities build
23 a large plant and they have "much control over not only
24 the design, but the operating decisions of that plant," with
25 respect to others, what is there to prevent them from

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1 denying access to others or only offering access on unattractive
2 terms?

3 MR. ZAHLER: Could I ask who the others are?

4 MR. LESSY: I think that is clear from the
5 question.

6 CHAIRMAN RIGLER: I think it is clear.

7 THE WITNESS: This gets back to the basic concept
8 of taking another party into a deal. The basis for
9 that decision would be whether or not the other party would
10 provide benefits.

11 I think if it is to the benefit of all three
12 parties for the other party to come in, he would have
13 access. If it is not, he would not have access.

14 CHAIRMAN RIGLER: That is not his question. He
15 is asking what prevents the dominant system that is building
16 his plant from being able to deny access to smaller systems.

17 THE WITNESS: Well, from the engineering,
18 economic point of view, the only thing that would prevent
19 it would be a cost-benefit situation that would make it
20 attractive to him to do it.

21 I'm not qualified to answer legal questions.

22 I suppose there are legal remedies, but that is
23 out of my field.

24 CHAIRMAN RIGLER: This gets back to a discussion
25 that you and I had yesterday about whether the benefits had

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1 to be mutually perceived. Suppose the little systems
2 that are seeking access claim that they can see benefits
3 and the big dominant company that has charge of the
4 construction disagrees with respect to the extent of the
5 benefits, I think the question is what prevents that big
6 system from excluding the others from access.

7 MR. LESSY: That is the question. I apologize for
8 my statement of it.

9 THE WITNESS: Excluding any legal resources which
10 I would not want to testify on, there is nothing in the
11 engineering, economic field that would require him to --
12 that would prevent him from excluding a company that did
13 not add benefits to the total -- that did not, in his
14 concept, add benefits to the total.

15 CHAIRMAN RIGLER: That is begging the question,
16 I think.

17 THE WITNESS: I think I have to go back to
18 the same Cadillac we talked about the other day. I
19 might have a Cadillac for sale and have all
20 kinds of reasons in my mind why you should buy it, and the
21 benefits you can get from it.

22 Unless you see the benefits you will not buy
23 the Cadillac. This is the same thing from the standpoint
24 of the parties concerned. Unless they both see that
25 there are benefits in it, the deal will not fly.

1 Again, there may be legal reasons that I
2 would not want to get into.

3 CHAIRMAN RIGLER: Let me ask you if reduction or
4 exclusion of competition would be considered as an
5 economic engineering benefit?

6 THE WITNESS: I would not consider it as a
7 portion of engineering economics.

8 It might be a benefit that a man would
9 consider in making the decision.

10 BY MR. LESSY:

11 Q If participation by the, say, small systems
12 in this example permitted the scaling of a larger size
13 unit, then there would be a benefit there, to the
14 participating systems, the original two systems.

15 A I would tend to say there probably would.
16 I wouldn't like to say they would without knowing the
17 actual figures. It probably would, yes.

18 Q Suppose it wouldn't? Suppose those systems
19 would add to the unit, maybe, 150 megawatts, but based
20 on categories and classes of units, it wouldn't?
21 Then there may not be any motivation, as you have used the
22 term or incentive on the part of the original two systems,
23 would there?

24 MR. ZAHLER: Could I have the question reread,
25 please?

(Whereupon, the reporter read the pending

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1 question, as requested.)

2 MR. ZAHLER: I'm confused what "it wouldn't"
3 refers to.

4 CHAIRMAN RICLER: I'm confused by the question,
5 too, Mr. Lessy.

6 BY MR. LESSY:

7 Q If the additional load that the systems
8 requesting access would not -- would add to the load, say,
9 100, 150 megawatts, but would not permit the purchase of
10 a more economic unit, according to economies of scale,
11 then there may not be any incentive to the original two
12 systems to go forward and permit access to the plant;
13 isn't that correct?

14 A I have to go back to the original concept.

15 At first, you look at the deal as a whole.
16 Is there a net benefit to all three parties, if
17 the party is included in the ownership?

18 If there is a net benefit to all three
19 parties, there should be a way of dividing it between
20 the three of them, so that there would be incentive for all
21 three of them to participate.

22 If there is not net benefit, there is not reason
23 to do the job, to form the pool, to let them in, shall
24 we say.

25

EAK 13
ch 1 1

CHAIRMAN RIGLER: The situation posed is, there are
2 two large systems that are buying a large unit, and the third
3 system comes along and asks them to build a slightly larger
4 unit so that the smaller system can pick up 100 mw.

5 From your viewpoint of engineering economics, do you
6 take into account any policy of the Congress that once the
7 benefits of nuclear energy associated with the grant of
8 license to be available broadly to electrical systems through-
9 out the country?

10 THE WITNESS: I am a little at a loss as to how
11 to answer. What do you take into account?

12 I am aware of that policy. It is a consideration.
13 It is not given a dollar value in economic comparison.

14 CHAIRMAN RIGLER: So it is excluded from your
15 consideration, based on engineering economics, which, I believe
16 is the term you have used to describe your testimony?

17 THE WITNESS: So far as the dollar evaluation of
18 it is concerned. It would be one of the fringe benefits that
19 would be considered.

20 CHAIRMAN RIGLER: I get confused now.

21 Now we have a new term, "fringe benefits."

22 THE WITNESS: In any, I think, economic comparison,
23 if you are going to make an economic comparison for even
24 comparing two sites for a power plant, you start out by
25 getting a load forecast for the area you are going to serve

ch 2

1 with the plants, and you put a program in of building the --
2 of developing the system with one site or developing the
3 system with the other site.

4 You compare those. You set up your program so the
5 operation and reliability will be as nearly equal as you can.
6 You can compare them. You come out with a dollar cost. In
7 addition to that, you have other intangibles that you do not
8 have a dollar cost affixed to. That may be one of them.

9 The other may be availability of labor, its effect
10 on your service area. There are a lot of other considerations
11 that you don't put into a dollar cost of making a decision.

12 CHAIRMAN RIGLER: Now, one of the open questions
13 I have with respect to your testimony is, what makes up these
14 intangibles and whether you include them in your benefits or
15 you exclude them.

16 At one time, I seemed to be hearing you say that
17 you are looking only to the engineering economics when you
18 describe the benefits. You are excluding intangibles such as
19 Congressional policy. At other times, you seem to be talking
20 in terms of all benefits which would be benefits above and
21 beyond engineering, economic type benefits.

22 THE WITNESS: I am sorry I am confusing. Actually,
23 you have to make a comparison in two parts, so to speak.

24 You assign dollar values to everything you can
25 reasonably assign dollar values to. This gives you a dollar

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comparison.

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Beyond that, you have other things such as the ease of operation, whether you are going to have problems with maintenance, whether it will follow your load curve properly, the public policy, whether it fits into your public image properly, and all of the things that you can't assign a dollar value to that have some influence on your decision.

CHAIRMAN RIGLER: Earlier, we discussed whether some benefits were subjective. Do you recall that?

THE WITNESS: I am sorry, I don't. These, I think, could be said to be subjective benefits.

CHAIRMAN RIGLER: The intangible benefits are subjective?

THE WITNESS: Yes.

MR. REYNOLDS: I wanted to maybe ask a clarifying question, because I think everybody is passing, and it would clear it up if I can do it.

CHAIRMAN RIGLER: I will permit it.

MR. REYNOLDS: I was wondering if your question was addressed to the witness with respect to the intangibles, for example, of Congressional policy, in terms of whether you are speaking of access to a nuclear unit as opposed to access to pool membership. That may be a way to clear it up, to explain the analysis.

There may be some crossing as to the intangibles

ch 4

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2 you consider when and the engineering analysis you consider
3 and when.

4 CHAIRMAN RIGLER: I don't think there is confusion
5 there. It seems what goes into the bundle of intangible
6 benefits may vary. Obviously, if you have Congressional
7 policy that applies only to nuclear unit and not to pooling
8 as a whole, that Congressional policy would go -- would be
9 weighted only in favor of considering the benefits of the
10 nuclear unit.

11 He has described several intangible benefits; ease
12 of operation, for example. I don't think we are confused
13 on that point.

14 MR. REYNOLDS: Referring back to earlier testimony
15 where you were having confusion as to when he included which
16 intangibles, I think that confusion resulted from the nature
17 of the request of access that we were talking about at the
18 time. That is all I was trying to suggest.

19 CHAIRMAN RIGLER: Okay.

20 BY MR. LESSY:

21 Q I am going to turn to page 31, lines 23 to 25.
22 Mr. Slemmer, when you testify that the flow of power and
23 energy over the transmission system pursuant to a wheeling
24 arrangement will "affect the capacity of the system to meet
25 its own requirements," that effect could be either a positive
or negative effect. couldn't it?

1 A Yes.

2 Q When you testified at page 32, line 22 to 26, that
3 the addition of a wheeling arrangement requires the review of
4 the capability of the entire system, is this true when the
5 amount of power to be wheeled is small in proportion to the
6 relative capability of the system doing the wheeling?

7 A I think we are getting to the straw that broke the
8 camel's back. I don't know that there is a line where you
9 say one more megawatt will break the system down. But there
10 is a limit.

11 Q Well, I gave you a specific case. That case that
12 I gave you in the question is, is this true when the amount
13 of power to be wheeled is small in proportion to the relative
14 capability of the system doing the wheeling?

15 MR. ZAHLER: If Mr. Lessy says this is a specific
16 case, can we have a quantification of what "small" means?

17 MR. LESSY: I don't think quantification in this
18 context is necessary.

19 CHAIRMAN RIGLER: If it is, the witness can describe
20 his difficulties with the question. I will let the witness
21 try to answer the question as posed.

22 THE WITNESS: I think any change in the flow of power,
23 no matter how small, may affect the operation. It is a
24 matter of engineering judgment whether a particular change is
25 something that you have to study. I think it depends entirely

ch 6

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on your definition of "small."

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If "small" is so insignificant that you can't find it in a technical study, it would be insignificant. That is right.

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BY MR. LESSY:

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Q Do you know the transfer capacity of the CRPCO system?

8

A I am not familiar with the CRPCO system.

9

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Q If the transfer capacity of the CRPCO transmission system were 2,000 megawatts, and we are talking about an addition of 30 megawatts, would you have to study that?

12

MR. ZAHLER: For my clarification, I don't know what a transfer capacity is. Could Mr. Lessy ask the witness or could he tell us, so the question has meaning.

15

BY MR. LESSY:

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Q Could you tell us what transfer capacity of transmission is, sir?

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19

A Usually, when you talk about the transfer capacity of a transmission system, you are going from one point to another point. It is ability to transfer power from one point to another point. Transfer of capability may be different between different points.

22

23

The fact it has 2000 transfer capability, I would have to know whether that 2,000 applies to the particular area where you are going to pass the 30 megawatts.

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ch 7

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Q Yes, it would.

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A If the 2,000 is not in use so that there is margin there for the 30 megawatts -- in other words, if you have 2,000 and the maximum use you want to make of it is 30 megawatts less than 2,000, you don't have to study it.

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end 12

If you are using 2,000 and you are going to add 30 megawatts, you have to find out what your bottleneck is, yes

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1 Q Would you anticipate that a system with 2000
2 megawatts of transfer capacity might be able to in
3 almost -- might be able to accommodate an addition of,
4 say, an amount in the range of 30 megawatts?

5 A Not without knowing what the particular
6 condition was that established that limit of 2,000
7 megawatts.

8 Q How about CAPCO today?

9 A Again, I'm not familiar with the CAPCO system.

10 Q Are you familiar with the Davidson
11 affidavit, in which the affiant made certain statements?

12 A I'm not familiar with it in that term, no.

13 That does not bring any document to my mind.

14 Q This is a roughly ten-page affidavit which has
15 been received in evidence ad DJ-358. And I was going
16 to take a minute or two to indicate some portions which we
17 want you to look at.

18 When I had it to you, I want you to read
19 anything you think may be helpful and relevant.

20 MR. ZAHLER: Could I ask where Mr. Lessy's
21 line of questioning is going, and what the purpose is of
22 handing the document to the Witness?

23 CHAIRMAN RIGLER: Excuse me a minute, Mr. Zahler.

24 MR. ZAHLER: I asked if I could know where
25 Mr. Lessy's line of questioning is going.

bw2

1 The reason I'm curious is Applicants have
2 stipulated that this 30 megawatts --

3 MR. LESSY: State the stipulation again.

4 CHAIRMAN RIGLER: You said it is already a
5 matter of record or Applicants have stipulated that --

6 MR. ZAHLER: Applicants have stipulated that
7 the transmission system has capacity to carry 30 megawatts
8 of PASNY power.

9 MR. LESSY: All right.

10 Now, if you want me to state exactly what
11 I'm lookin at, I will ask the Witness to be excused
12 and it will take a second.

13 If not, there are two or three more questions
14 I want to pursue in this line.

15 Now that I don't have to show him the affidavit,
16 it limits the scope.

17 CHAIRMAN RIGLER: Ask the question.

18 MR. LESSY: Are you clear as to the stipulation,
19 sir?

20 THE WITNESS: Yes, I think so.

21 BY MR. LESSY:

22 Q Do you know whether the wheeling of 30 megawatts
23 of PASNY power was included in the plan of CEI system
24 prior to April 1974, which is the date of the
25 affidavit?

bw3

1 A I do not know.

2 Q Isn't this -- do you think it should have been
3 included in the planning of CEI system?

4 MR. ZAHLER: Objection. The Witness says
5 he doesn't have any knowledge as to it.

6 CHAIRMAN RIGLER: Sustained.

7 MR. LESSY: If it were not, isn't this an
8 illustration of a wheeling arrangement that can be
9 accommodated, even though it wasn't included in the planning
10 of the system.

11 THE WITNESS: You are -- as I understand the question,
12 it is based on the assumption that the inclusion of this
13 30 megawatts was not contemplated in the planning of the
14 system.

15 MR. LESSY: Right.

16 THE WITNESS: It is something --

17 BY MR. LESSY:

18 Q Isn't this illustration of a wheeling arrangement
19 that can be accommodated, even though it wasn't included
20 in the transmission system?

21 A Again, I am not sure of the context of this from
22 the stipulation, as I heard it, it says that the system
23 has the capacity to do it, so it can be.

24 Whether this is a situation now or whether
25 it is a long-term situation, I don't know.

bw4

1 The planning of a system is a continuous
2 operation. That 30 megawatts every time they plan the
3 system will have to be taken into consideration,

4 It might be right at the moment, they have
5 30 megawatts surplus capacity that they can devote to
6 that.

7 I don't know the particulars.

8 Q What I am trying to find out is page 32, beginning
9 at line 21, is it always true that the addition you have
10 a wheeling arrangement, therefore, requires the review of
11 the capability of the entire system and must be
12 included in planning the expansion of that system to meet
13 transmission requirements.

14 A It is always true with the possible exception
15 that if a particular party at the moment knows he has
16 a certain amount of surplus capacity to assist him, he
17 doesn't have to review it again to determine he has
18 that surplus capacity.

19 But certainly he has to include that 30
20 megawatts in the future planning of the system.

21 That is one of the things the system will consider
22 in performing, and he has to include it in his system, yes.

23 Q Would you like to add the word "usually"
24 or "sometimes" requires on line 23, page 32, based
25 on your knowledge of the stipulation?

bw5

A. Not particularly, no.

The fact that they have stipulated that the fact it is there, tells me they have reviewed it.

The review has already been made for this situation. Certainly, any engineering that started planning the system in the future would want to see what that transfer did to the system operation.

It would be part of the input to the system's planning process, just the same as any other load or generation or anything else on the system.

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EAK 15
ch 1

1 Q An engineer who had 2,000, as we said before, who
2 had lines with 2,000 megawatts of capacity, couldn't tell
3 without study or advance planning whether or not a small
4 amount, such as 30 megawatts, could be added without reviewing
5 the entire system.

6 A We are getting to a different angle now. We were
7 talking about the future planning of the system. If an
8 engineer who knows there is surplus capacity in a 2,000
9 megawatt system as of now would not have to make another
10 review for this particular 30 megawatts; no. But the fact
11 he knows that capacity is there indicates he has reviewed it.
12 Otherwise, he wouldn't know it.

13 Q Suppose the amount, 30 megawatts, is small in pro-
14 portion to the total capability of the transmission system.
15 Need the total capability be reviewed on allocations when you
16 are dealing with a relatively small amount?

17 A I don't know how you review the capability of a
18 system without reviewing the total capability. That is what
19 it is.

20 Q You would review the capability of a transmission
21 line which would be used?

22 A If you are sure that that is the transmission line
23 that is going to carry the power. You are not sure of that
24 unless you know the operation of the whole system.

25 That 30 megawatts may not go over a single line.

ch 2

1 I don't know the actual situation. That 30 megawatts may go
2 over a dozen lines in parallel.

3 Q Are you familiar with any arrangement that Toledo
4 Edison would classify as wheeling?

5 A I am sorry, I am not familiar with Toledo Edison's
6 arrangements.

7 Q I am going to show you what I will represent to be
8 an excerpt from the 1974 annual report of the Toledo Edison
9 Company to the Federal Power Commission.

10 You are familiar with reviewing annual reports to the
11 Federal Power Commission, is that right?

12 A I am familiar with the Federal Power Commission
13 reports, yes, sir.

14 Q I am going to show you --

15 MR. ZAHNER: Mr. Chairman, I would like to see
16 that.

17 CHAIRMAN RIGLER: Give it to Mr. Reynolds before
18 the witness.

19 MR. LESSY: Should I show it to the witness while
20 he is examining the particular document?

21 One page would satisfy. We could do it for '73,
22 but '74 is more recent, and I think more accurate of the
23 situation today. It is a standard report by all electric
24 utilities.

25 Should I distribute it to the witness?

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CHAIRMAN RIGLER: No. Not yet.

BY MR. LESSY:

Q Going to ask you to direct your attention to line 13 and 14 of the page entitled Electric Energy Account -- I mean 14 and 15 of the page entitled Electric Energy Account of Toledo Edison, 1974 annual report.

There are also some associated pages in there that you may review, but I am not going to ask you about anything other than those lines on that page.

MR. ZANLER: Could you ask the witness a question so he knows why he is reviewing the document.

BY MR. LESSY:

Q Lines 14 and 15 of that page provide transmission for and by others, in parentheses "wheeling," received 49,192 kwh in thousands and delivered 49,192 kwh in thousands.

A That is mwh. There are no "thous" in there.

Q Right.

The question is, what would you call the receipt and delivery by Toledo Edison of equal amounts of kilowatt hours by transmission for and by others as reflected in the 1974 annual report?

MR. ZANLER: Objection.

The witness testified he had no knowledge as to the practices of Toledo Edison. The witness has no knowledge

ch 4

1 where the power came from or where it went to. I don't under-
2 stand how he is in a position to answer a question such as that.

3 MR. LESSY: The witness has given definition of
4 certain terms, including "wheeling." I would like to know
5 exactly, not with respect to Toledo Edison but as a matter of
6 fact, what he would term as a transfer as listed on that page.

7 MR. ZAHLER: If he wants to ask a general question,
8 okay, not a question related to Toledo Edison.

9 MR. LESSY: What would he call the receipt and
10 delivery by Toledo Edison of equal amounts of kilowatt hours
11 by transmission for and by others, as reflected in the report.

12 MR. ZAHLER: I object to the question as it is
13 phrased. It relates to this document. The witness has no
14 knowledge of how Toledo Edison prepares these documents.

15 CHAIRMAN RIGLER: Sustained.

16 BY MR. LESSY:

17 Q What would you call the simultaneous receipt and
18 delivery by Toledo Edison of equal amounts of kilowatt hours
19 for and by others, as reflected in the page entitled Electric
20 Energy Accounts for their 1974 annual report.

21 MR. ZAHLER: Objection. The document on its face
22 says nothing about simultaneity of the transfer. He is adding
23 that.

24 I don't understand the reference to the document in
25 his question. If he wants to ask a general question, okay.

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CHAIRMAN RIGLER: Sustained.

MR. LESSY: What would you term the receipt and delivery of 49,192 kwh under the account transmission for and by others as reflected in the document in front of you?

MR. ZAHLER: Objection.

CHAIRMAN RIGLER: Sustained.

MR. LESSY: I don't understand the nature of the objection. I have asked for him to put a label on this if he can.

Maybe the basis hasn't been understood by me and I am at fault, but I don't understand the nature of the objection.

MR. ZAHLER: The witness testified he has no knowledge as to the practices of Toledo Edison. Toledo Edison filled out a document here. He has no knowledge of how they filled out the document, and he is asking him to characterize the manner in which Toledo Edison filled out the document.

If he wants to talk about a particular power pool irrespective of the document, he can answer that question.

MR. LESSY: This document is prepared by all electric utilities subject to FPC jurisdiction and others. It is one that an expert should be familiar with. I am asking if he can understand what a particular account reflects.

CHAIRMAN RIGLER: You can ask him that and still avoid Mr. Zahler's objection.

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MR. LESSY: I don't see the difference between asking him what it reflects and how he can characterize it. That is my problem.

I am not trying to be argumentative. I am trying to understand why the objection was sustained.

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1 BY MR. LESSY:

2 Q I will ask him that. The question is what the 49192
3 MKWH received and delivered, reflects to you,
4 as on line 14 and 15 of the document I showed you.

5 A The fact that it is labeled "transmission for
6 and by others," with the parenthesis (wheeling), I look
7 back to the former sheet detailing transmission of
8 electricity for and by others and it appears to be the
9 receipt of power from Buckeye Power Company to deliver ---
10 Buckeye Power, Incorporated, to deliver to its member
11 points.

12 I can not tell from this whether or not Toledo
13 Edison had any other interest in that transaction. The
14 fact they called it wheeling would tell me they had no
15 other interest, and that they delivered it.

16 If that is the case, I would call it wheeling.
17 If that is the only transaction they had in regard to that power
18 and energy.

19 MR. LESSY: That concludes cross-examination
20 by Staff.

21 CHAIRMAN RIGLER: Who is going next?

22 MR. HJELMFELT: The City will proceed with
23 cross-examination.

24 BY MR. HJELMFELT:

25 Q Mr. Slemmer, my name is David Hjelmfelt, and

1 I'm appearing for the City of Cleveland.

2 I believe you stated that the only
3 reason one party would impose a high reserve burden on
4 another would be to bring that other party's reliability
5 up to a higher level; is that correct?

6 A I think that is right, yes.

7 Q Might another reason be that the first party
8 did not believe there was sufficient incentive for him to
9 pool unless the other party carried a greater percent of the
10 reserves?

11 A Yes, it would be possible to divide benefits
12 in that way, although I think that would be very unusual.

13 Q Do you know if there is more than oneway to per-
14 form the calculations under the CAPCO method for allocating
15 capacity, and thus determining a reserve level?

16 A It is my understanding of the CAPCO method that
17 it is a way of determining that. It is based on a
18 probability procedure. There is a number of ways of
19 making a probability calculation.

20 I think the -- I'm not sure whether the
21 CAPCO -- I guess the CAPCO method does not
22 specify the particular computer program they are going to
23 use for it. There would be other ways.

24 Q So, within the CAPCO formula, by changing the
25 method of representing units, for example, you could

1 shift the reserves allocated from one party to another
2 party?

3 A I don't understand what you mean by changing
4 the way you represent units.

5 Q Well, for example, if you -- do you know in the
6 CAPCO formula, does the size of the unit owned by
7 a particular utility affect the level of reserves that
8 it would carry?

9 A Yes, it does affect it. The size and forced
10 outage rate.

11 Q Now, if you treated the size of the unit, instead
12 of assigning the actual size, you treated it as a prorata
13 share over a group of units, so that even if Utility A
14 took 400 megawatts from one of four units, you would
15 assign him 100 meg watts from each unit, rather than
16 treating it as a 400 unit block, that would change the
17 reserves he would be assigned; is that correct?

18 A I think I testified this morning that I felt the
19 latter method would be better, that you determine the
20 total reserve requirement, because of the unit, and then
21 divide that requirement, rather than splitting the unit
22 up.

23 Q Yes, but if you did spread it out, could that be
24 done under the CAPCO formula?

25 A Yes, it could be -- well, so far as making the

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1 computations concerned, you can represent it either
2 way.

3 As far as I know, the CAPCO formula is based
4 on splitting the unit.

5 I'm not really familiar with the CAPCO formula.
6 I can't testify what the current contract is.

7 Q So the CAPCO formula by itself then does not
8 provide a result which you can say would satisfy the
9 apportionment of the net benefits?

10 A The CAPCO formula is a tool by which you can
11 determine certain results.

12 Those results are the use of pool reserves, the
13 probably use of pool reserves. To use that tool, you have
14 to put the data into it. I am not -- as far as I
15 know, the formula itself does not specify how the data
16 goes in.

17 The contract probably does.

18 Q So that if the parties were applying that --
19 using that tool to apportion the benefits and
20 decided that that wasn't providing the proper incentive, they
21 could change the way they put the data in, and thus change
22 the resultant incentive; is that correct?

23 A Well, I would assume this would
24 require some kind of agreement among the party that this is the
25 way we are going to do it now.

bw4

1 Q Assuming that agreement, that could be done?

2 A Yes, yes.

3 Q I believe you stated in a pool arrangement, if the
4 parties live up to the agreement there is no leaning or
5 riding.

6 Was that a statement that you believe is
7 applicable, generally, to all pools?

8 A Let me say it this way. There is something
9 wrong with the pool contract, if it is not true.
10 In an equitable pool contract there would be no leaning or
11 riding, if they are living up to the agreement.

12 Q Would that be true for a pool that apportioned
13 reserves on an equalized reserve sharing basis?

14 MR. ZAHLER: Can I ask Mr. Hjelmfelt what you
15 mean by equalized reserve sharing basis?

16 BY MR. HJELMFELT:

17 Q Equal percent of peak load.

18 A I would assume that at the time the equal load
19 was agreed on, this was equitable. The systems were
20 enough alike that nobody felt this was a burden. As the
21 systems grow, as the pools grow, as the unit sizes grow,
22 and so forth, these formulas are changed. There is a
23 time there before it is changed that some guy feels like he
24 is getting hurt, and he wants to change the formula.

25 This requires a renegotiation of the contract

bw5

1 arrangement.

2 Q That there could be leaning on or
3 riding, even though the parties are living up to the terms
4 of the agreement?

5 It wouldn't be leaning or riding, if he brings
6 it to the attention of the parties, and they go ahead and
7 negotiate something that is suitable.

8 Q It only becomes leaning on or riding if the
9 other parties refuse to make any change; is that correct?

10 A That is right.

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1 Q Do you have any idea how many pools use equal
2 percent reserve?

3 A I have not made a survey, no. I know of three
4 that I mentioned this morning that do. I think there are
5 others, but I would have to make a survey to find out.

6 Q You named three this morning that used equal percent
7 reserves. Did you misstate that?

8 A I mentioned three this morning that used probability
9 I don't know of any pool that uses an equal percentage without
10 some kind of qualification on it.

11 Q What use of the probability do those pools make
12 that you referred to?

13 A Well, they handle it in different ways. I don't
14 think I need to talk about the CAPCO.

15 It is my understanding that the ILMC Pool is
16 similar to CAPCO. It may be identical. I am not sure. If
17 there are differences, they are very small.

18 The PJM Pool uses a probability computation to
19 determine what they call -- they determine power factors. One
20 they call a unit size factor, and the other they call a
21 load drop factor. I have forgotten what the other one is now.
22 By using the probability computations, they determine constants
23 to use in those factors to account for the probability.

24 Q And probability method is used to determine the
25 total amount of reserves that are needed. Is that correct?

1 A Yes.

2 Q Now, is probability method used to determine how
3 the reserves are to be divided up?

4 A Yes.

5 Q In what way?

6 A To develop these factors that I mentioned. Actually
7 there final formula is that they carry the average amount of
8 reserve plus a factor for the -- well, they carry their peak
9 times one plus the average amount of reserve plus a factor
10 for the unit sizes, plus a factor for the load drop. I think
11 the other factor has something to do with winter and summer
12 peak. I would have to check that.

13 Q Do pools that use equal percent reserves, do they
14 use a probability method to determine the total amount of
15 reserves needed?

16 A All the equal percent reserves started back before
17 the probability method had been developed to where it
18 could be used for pool operation. As the probability method
19 has been developed and become more useful, the equal percentage
20 has gradually disappeared.

21 MR. CHARNO: Could I get the last question and
22 answer back, please?

23 (The reporter read the record as requested.)

24 BY MR. HJELMFELT:

25 Q Is it your testimony that there are no pools that

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use equal percent reserves?

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A I didn't mean to say that. The tendency is to replace that.

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Q Is it your testimony that those that do use equal percent reserves do not use the probability method to determine the total amount of reserves that are required?

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A No, not necessarily. They may or may not.

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Q Is it your testimony that operating reserves ought to be apportioned on the same basis as installed reserves?

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11

A I am not sure what you mean by "the same basis." If you mean that they should be apportioned on the basis of supplying in proportion to your probable use, yes.

12

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Q Do you know whether ECAR has adopted rules relating to the level of operating reserves?

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A My understanding is that ECAR has adopted rules relating to the total reserve, not to the allocation of reserve between members.

16

17

Q Do you know how the CAPCO Pool determines or assigns the level of operating reserves to be carried?

18

19

A I am sorry, I do not know. No. I am not familiar with that, as perhaps I missed that in reading it.

20

21

Q Would you agree that coordination permits utilities of almost any sizes to obtain the benefits of economies of scale?

22

23

24

A That is a pretty general question for a definite

25

ch 4

1 answer. I think there is a possibility there, but I would
2 have to have particulars to say that a particular case provides --

3 Q You would say that is a general rule which might
4 have exceptions?

5 A Yes. I think that would be it.

6 Q Now, are you familiar with any pools in which
7 the members have different financing costs?

8 A Yes.

9 Q Are those viable pools?

10 A They are, I think, viable pools. They have had
11 their problems.

12 Q Have they been able to surmount those problems?

13 A They have been able to surmount those problems.

14 Q With respect to the incentive to continue in a
15 pool, must the incentive flow from each member of the pool
16 to each member of the pool or might the incentive occur from
17 the net benefits of the pool?

18 A It must occur from the net benefits.

19 Q So that if one -- if one member of the pool made
20 no contribution to net benefits and yet the total net benefits
21 could there be a situation where one member of a pool did
22 not contribute to net benefits in a measurable amount and
23 yet the total net benefits were sufficient to provide incentive
24 for the other members of the pool?

25 A There could be. I would question why that

ch 5

1 member that did not contribute to the net benefits was in
2 the pool.

3 Q Do you consider it a poor practice for a pool to
4 require unanimous approval for the admittance of new members?

5 A What do you mean by "poor practice"?

6 Q Do you consider that to be an appropriate term in
7 a pool arrangement?

8 A I think it is appropriate, yes. It depends entirely
9 on the structure of the pool.

10 If you have a group of members like the NEPCOL, I
11 don't think it would be practical in NEPCOL to require unani-
12 mous agreement on anything. I don't think they would ever get
13 unanimous agreement.

14 Q Would the factor then be a question of the number
15 of members in the pool?

and 17 16 A That would certainly have an influence on it, yes.

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S18

bwl 1 Q Is there any objective test by which you could
2 measure whether there is an incentive for pooling?

3 A I am not clear what you mean by an objective
4 test?

5 Q Is there any way by which you can measure --
6 a third party could measure whether or not an incentive
7 existed for a party to pool, to enter a pool or continue
8 in a pool?

9 A Well, the way I have been using the word
10 "incentive," it is something that produces an action.

11 And the only way I can determine that is
12 whether or not it produces the action. There are ways
13 where a third party can, if they know enough about all of
14 the parties' systems, they can determine what the benefits
15 would be which would tend to provide that incentive.

16 In the context that the incentive produces an
17 action, the only proof of the incentive there is that the
18 action is produced.

19 Q Is your incentive test or thought, purely pragmatic?

20 A Pragmatic in the term that it is a way of
21 getting something done, yes.

22 Q If the parties pool, then there is incentive
23 and if they don't pool, there wasn't incentive?

24 A I think that is right, yes.

25 Q Now, would it be possible that within the net

bw2

1 that could be derived from a pool there might be -- that
2 most benefits could be divided within a range which might
3 provide incentives?

4 A It would be possible, yes.

5 Q In other words, everyone could be provided
6 enough benefits to have an incentive to join the pool and
7 there still be net benefits left over that haven't been
8 divided yet?

9 A When you divide benefits, I would think you divide
10 all of them.

11 but there could be differences in the amount of
12 benefits that different parties got.

13 If there was some reason to take some of them
14 out, I would assume that would be one of the costs of
15 running a pool, before you start dividing benefits.

16 Q Can the result in the division of benefits
17 reflect negotiating strength of the parties?

18 A The results --

19 Q Can the results of -- do I understand that you can
20 make an objective or engineering calculation of the net
21 benefits from a proposed pool, and then the parties would
22 negotiate the division of those benefits?

23 A Yes.

24 Q And the result then would reflect the
25 negotiating positions of the parties?

bw3

1 A I'm not sure what you mean by the negotiating
2 positions of the parties.

3 Q The negotiating strength of the parties.

4 A I think you are getting into economic terms,
5 I will have to have defined for me.

6 Q In determining --

7 A The ability of the parties to reach agreement,
8 yes,

9 Q In determining whether or not there were
10 sufficient incentives for him to enter into the
11 transaction, would a party consider what alternatives
12 he had?

13 A He should, yes.

14 Q And if he had good alternatives, it would take
15 more of an incentive for him to join, to undertake
16 that transaction than it would, if he had no reasonable
17 alternatives?

18 A No. The consideration of those alternatives
19 is what determines the net benefits for the pool. If he
20 had better alternatives than the pool, then the net
21 benefits are zero or negative, again.

22 Q That is the net benefits for him or the pool as
23 a whole?

24 A Either one. It could be for him or it could
25 be for a pool as a whole. It is hard for me to see where

1 a fellow would have a better alternative than joining the
2 pool, where he would actually add anything to the pool in
3 net benefits. It would be the best thing for the pool for
4 him to take that alternative.

5 Q You are saying if A, B, C have a pool and
6 there is consideration of whether D should be a part of that
7 pool and D has some alternatives -- D can remain, say, as
8 an isolated system, D could interconnect with another
9 party and gain some benefits or D can join the pool and get
10 more benefits.

11 Would the fact that D can join with E and get some
12 benefits, cause him to require more of an incentive to join
13 with the pool?

14 A I don't think it would cause him to require more
15 incentive. It would reduce the amount of benefits that he
16 would receive, because his benefits are determined by
17 what he can do with his best alternative.

18 Q But if the pool said, we will give you enough
19 benefits to get a certain amount of incentive, but it turns
20 out that that incentive is smaller than the benefits he
21 would get from joining with E, then he would join with
22 E, right?

23 A We are confused in terms.

24 If his deal with E is better than his deal with
25 the pool, he has no incentive to join the pool.

bw5

1 His incentive is to join with E.

2 Q If A, B, C want him in the pool, they are going
3 to have to give him more net benefits to provide him an
4 incentive to joining the pool?

5 A There are net benefits for him in joining the
6 pool, yes.

7 CHAIRMAN RIGLER: Did you get an answer to
8 your question about whether a prospective pool member obtains
9 benefits in relative proportion to his bargaining
10 strength?

11 You started on that then, and you never got an
12 answer, and you have been in that general area now, but I
13 don't know if there is a direct answer.

14 MR. HJELMFELT: Can you give an answer to that?

15 THE WITNESS: I think I would have to have a
16 definition of bargaining strength. To me this is an
17 economic term, I am not qualified to define. If you give
18 definition of bargaining strength, I can.

19 BY MR. HJELMFELT:

20 Q Have you engaged in negotiations with pools?

21 A Yes.

22 Q For a party to a pool or increasing a pool?

23 A I have engaged in negotiations for inter-
24 connection contracts.

25 I am trying to remember the things I did.

Yes, I have engaged in that.

EAK 19
ch 1 1

2 CHAIRMAN RICLER: In your article, you spoke in
terms of horse-trading. Do you recall that reference.

3 THE WITNESS: Yes.

4 CHAIRMAN RICLER: What factors go into horse-
5 trading? Isn't that a way of saying bargaining strengths?

6 THE WITNESS: No. My concept of horse trading is
7 that one party would try to find ways, find the loopholes in
8 the agreement and get something out of it that was not in-
9 tended or, in other words, not look in the horse's mouth before
10 he traded. It is maybe another concept of bargaining strength,
11 but I don't know.

12 CHAIRMAN RICLER: Where you used the phrase in the
13 bottom paragraph on the lefthand column on 622.

14 THE WITNESS: Yes. My horse trading there was
15 in contrast to being willing to give the other parties a
16 reasonable share.

17 CHAIRMAN RICLER: Is that related to the bargaining
18 strength of the parties?

19 THE WITNESS: Again, I am not sure in the economic
20 sense how bargaining strength is defined. I assume it is
21 related to bargaining strength.

22 CHAIRMAN RICLER: All right.

23 BY MR. BJELMFELT:

24 Q When you participated in negotiations, did you
25 consider the strengths and weaknesses of your position?

ch 2

1 A Well, if you mean did I try to get the best deal I
2 could, yes.

3 Q And in deciding what was the best deal you could
4 get, what factors did you consider?

5 A Well, the procedure that we went through was we
6 would come to some proposed arrangement, usually two proposed
7 arrangements, one for each party concerned and then we would
8 go back to evaluate the effects of those arrangements on both
9 parties. Then we would come back together again and try to
10 reach an agreement between them.

11 Q Did you always reach an agreement right at the mid-
12 point between the two parties?

13 A No.

14 Q Why not?

15 A Because finally it came to where one
16 party did not feel that they could go that far and still have
17 an incentive to do the job.

18 Q Did that give them more bargaining strength?

19 A Again, I am not sure what you mean by "bargaining
20 strength."

21 That established the point. However, they would go
22 to either do it or don't do it.

23 MR. ZAHLER: Mr. Chairman, I am not sure that Mr.
24 Slemmer has answered the question about bargaining strength,
25 and the problem is, he has asked for a definition and no one

ch 3

1 supplied it to him.

2 CHAIRMAN RIGLER: It doesn't strike me as that diffi-
3 cult a term. It doesn't strike me as a term that would be un-
4 familiar or beyond the capacity of a witness who has assisted
5 to negotiate interconnection agreements. Given his expertise,
6 it is almost elementary, and his fencing on the subject is
7 a little disturbing.

8 MR. ZAHLER: If it is that easy a term, I don't
9 understand why Mr. Hjelmfelt is not giving him a definition
10 to work with. The witness indicated he has difficulty with
11 the term.

12 If that is easily defined, Mr. Hjelmfelt can give
13 him a definition, and the witness can answer it.

14 CHAIRMAN RIGLER: I will not require Mr. Hjelmfelt
15 to do that.

16 BY MR. HJELMFELT:

17 Q Would that fact that members of a pool compete
18 for customers present a requisite mutuality of interest to
19 form the pool?

20 A No.

21 MR. LESSY: Read that, please.

22 (The reporter read the pending question.)

23 BY MR. HJELMFELT:

24 Q Suppose you have a pool composed of A, B and C,
25 and you have nother isolated utility adjoining them, D,

1 utility C and D engaging in retail competition.

2 If D applies for membership in the pool, does
3 the fact that there is competition between C and D affect
4 C's assessment of the incentive to permit D to pool?

5 MR. ZAHLER: Could I have that reread?

6 (The reporter read the pending question.)

7 THE WITNESS: I suppose, as a practical matter, the
8 personality would become involved to some extent, yes. There
9 is no fundamental reason why that should, except just for the
10 matter of personality.

11 BY MR. HJELMFELT:

12 Q If you assume that entering into the pool would
13 strengthen D's ability to compete with C, would that change
14 your answer any?

15 A I am a little bit at a loss on the question. You
16 mean that the pool benefits are going exclusively to D and
17 not C?

18 Theoretically, if the pool benefits are distributed,
19 it would increase -- it would decrease the cost for both
20 companies or both C and D and, therefore, increase the
21 ability of both of them to compete.

22 Q Would the cost necessarily be decreased proportion-
23 ately?

24 A This might be a factor that C would want to be
25 sure of, that they were not losing a competitive position.

ch 5

1 Q In other words, in agreeing to pool, C would say,
2 "I am going to accrue enough net benefits so that your increased
3 ability to compete will not be any greater than my increased
4 ability to compete"?

5 A I think that would be perhaps one basis for it,
6 yes.

7 Q Do you know what the impetus for the formation of
8 the CAPCO pool was?

9 A All I know is what I have read in their publications.
10 They say it is to reduce costs and better reliability.

11 Q Do you know whether the National Power Survey was
12 the impetus for the formation of the CAPCO Pool?

13 A I am pretty sure the CAPCO Pool preceded the power
14 survey.

15 Q Assume it did not.

16 MR. ZAHLER: Could I ask which survey? There were
17 two of them.

18 MR. HJELMFELT: The first.

19 THE WITNESS: I would again -- again, I was not
20 a party to the forming of the CAPCO Pool. Anything I would
21 do would be a judgment. Certainly, when the power survey
22 came out with the emphasis on pooling, it was an incentive
23 for all utilities to look at their pooling opportunities.
24 I don't know what influence that had on CAPCO.

25

ch 6

1

BY MR. HJELMFELT:

2

Q What it did was made them aware or brought to light some of the benefits they may not have been aware of?

3

4

A No. It would put more emphasis on them.

5

CHAIRMAN RIGLER: He said he didn't know, Mr. Hjelmfelt.

6

7

BY MR. HJELMFELT:

8

Q Should economy transactions in a pool be required, or should they be on a willing buyer, willing seller basis?

9

10

A My concept is that the person who has the economy energy for sale should be required to sell it. The person who is buying should be optional.

11

12

13

I might say that there are extenuating circumstances that would change that general rule, too. Being general always gets you into trouble.

14

15

16

Q On page 34, beginning with the answer at line 16 and continuing over to page 35 through line 12, you talk about a study which should be performed before deciding whether equal percent reserve sharing should be applied between CAPCO and others.

17

18

19

20

21

You haven't made such a study, have you?

22

A I don't remember referring to CAPCO in this.

23

24

Q Well, the question refers to CAPCO. The answer I don't think does. I assume you are answering the question.

25

A I have made no study with regard to CAPCO on

1 reserve sharing, no.

2 Q Would your answer be any different if there was no
3 reference to CAPCO in the question?

4 A No. I don't think CAPCO per se is an element in
5 that question.

6 Q On pages 35, line 6 through 9, you advise that an
7 arrangement could be made, or you advise that an arrangement
8 be made to provide each party with significant net benefits.

9 Is it your testimony that such a division
10 could be made?

11 A I think it probably could. I can't say that
12 anything particular can be done, but I think it probably
13 could be made.

14 Q If the Board were to make such an arrangement
15 as part of license conditions, how would it know when such a
16 division had been made?

17 A When the parties got together on an agreement.

18 Q Suppose that the CAPCO members had already stated
19 that admitting other small utilities to the pool had nothing
20 to offer them. Would that mean that the Board could not
21 provide an incentive for pooling?

22 CHAIRMAN RIGLER: Say that again.

23 MR. HJELMFELT: I will start all over.

24 BY MR. HJELMFELT:

25 Q In your answer to that question, the answer that

ch 8

1 began on page 34, you are talking about licensing conditions
2 that might be imposed by a hearing board. And you state that
3 first you advise that an arrangement be made that would provide
4 each party with significant net benefits.

5 Then I asked you how the Board would know when such
6 an arrangement -- when a license condition would provide
7 such an arrangement. You said you would know when the
8 parties reached agreement.

9 Suppose that the CAPCO members had already said
10 that there wasn't any such arrangement which would provide
11 them with an incentive.

12 Does that mean the Board cannot impose any
13 effective license conditions?

14 A I have trouble with your assumption that the CAPCO
15 companies said there is no such arrangement. I cannot imagine
16 a company saying there is no way of making a deal without
17 first studying the deal.

18 MR. HJELMFELT: Thank you.

19 That is all the questions I have.

20 CHAIRMAN RIGLER: We will break for lunch.

21 (Whereupon, at 1:00 o'clock p.m., the hearing
22 was recessed to reconvene at 2:00 o'clock p.m. the same day.)
23
24
25

21
EAK1 1

AFTERNOON SESSION

2

(1:55 p.m.)

3

Whereupon,

4

WILBUR SLEMMER

5

resumed the stand and, having been previously duly sworn,

6

was examined and testified further as follows:

7

CROSS EXAMINATION (Continued)

8

BY MR. CHARNO:

9

Q Mr. Slemmer, if a utility had unused transmission

10

capacity that was already available and that capacity would re-

11

main available for the length of a contemplated wheeling

12

transaction, that utility wouldn't be required to include

13

the amount of capacity for that transaction in its future

14

planning, would it?

15

A If the transaction was over before the future

16

planning took effect, no it would not.

17

Q If the capacity was expected to remain available

18

prior to the time the future planning took effect?

19

A I think there is a little misunderstanding of what

20

planning consists of here. If you are planning a transmission

21

system in order to get results for a future condition, you

22

have to include all of the loads and generation and power flows

23

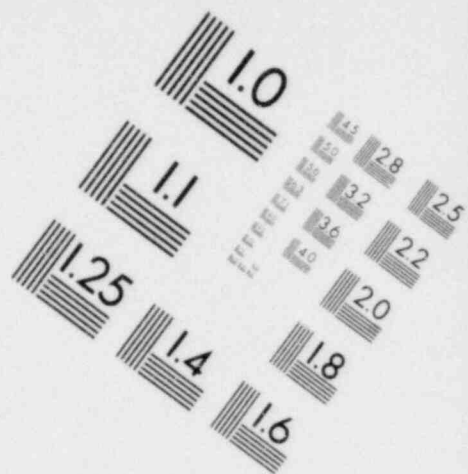
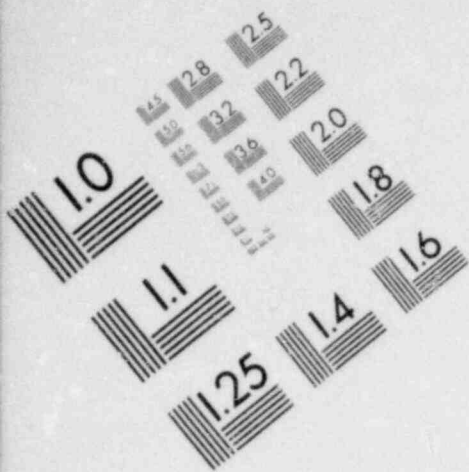
that you would expect that system to carry at that time.

24

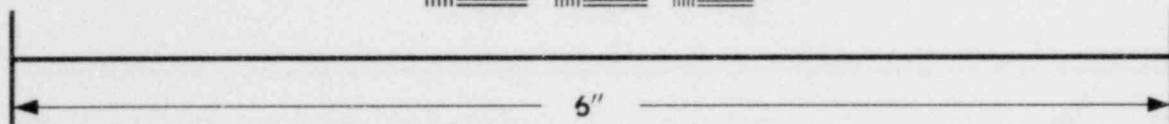
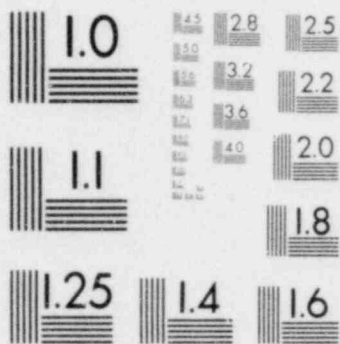
You may know you have capacity for that particular

25

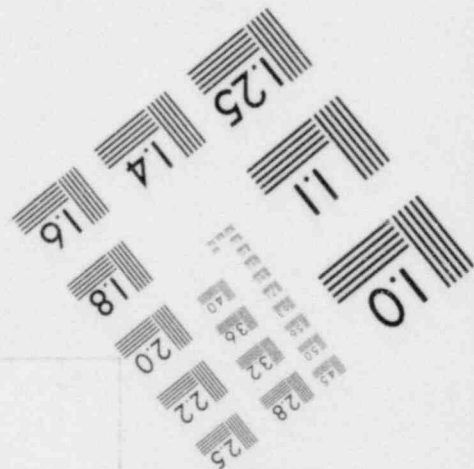
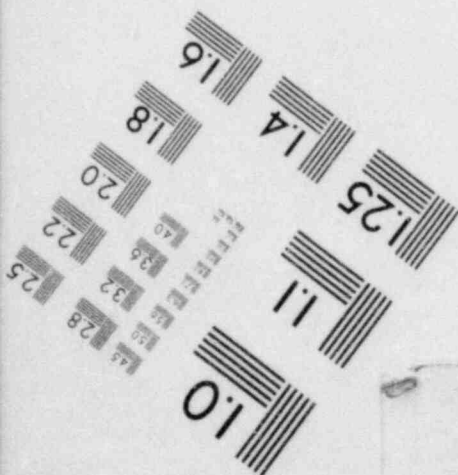
thing but you have to have that in your overall picture to

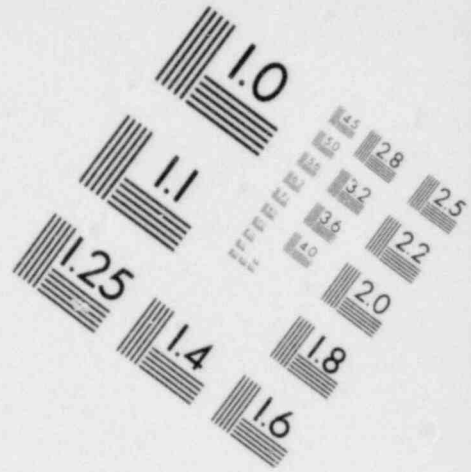
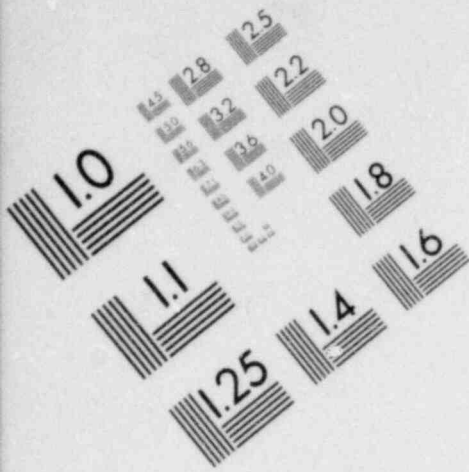


**IMAGE EVALUATION
TEST TARGET (MT-3)**

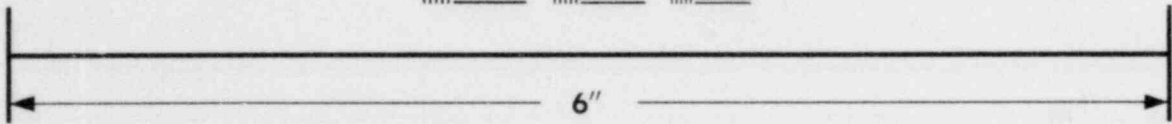


MICROCOPY RESOLUTION TEST CHART

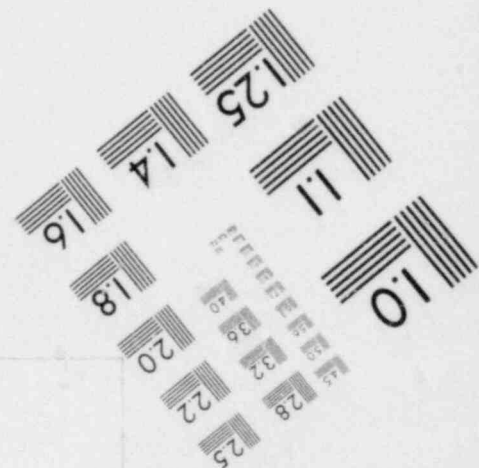
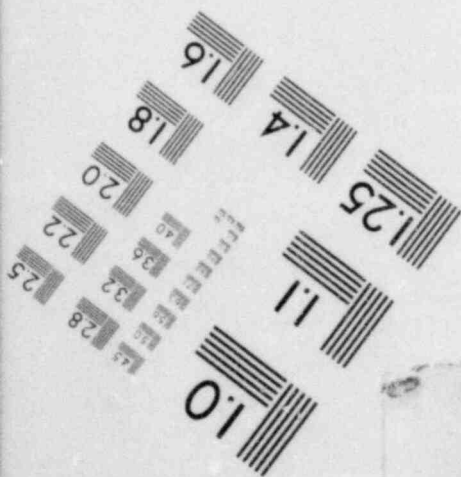




**IMAGE EVALUATION
TEST TARGET (MT-3)**



MICROCOPY RESOLUTION TEST CHART



eak21 get the performance of your system.

2 Q If your overall planning shows that for
3 hypothetically a five-year period you will have excess
4 capacity available of say 50 megawatts and you are talking
5 about wheeling ten megawatts, are you going to have to
6 include that ten megawatts in your planning? When you
7 already know you are going to have 50 megawatts available
8 throughout the period?

9 A Let's tie this down, a little further definition
10 of what we are doing. Let's say our planning involved the
11 alternative location of power plants so that in the future
12 period, we are thinking of a power plant here and power
13 plant over there. Then, in both of those
14 transmission studies for those two locations, this wheeling
15 load on the system would be included in the total representa-
16 tion of the system for that study.

17 It is the same as any other load or generation
18 involved on that system. Otherwise, you don't get true
19 performance of the system for your plan.

20 Q Would that be necessary even if under both
21 alternatives you would have 50 megawatts of capacity and you knew
22 that?

23 A Yes, it would be regardless of the capacity.
24 If you leave it out of the system, you don't get a true
25 performance pattern. You don't get a true pattern of the

eak3 1 performance of your system.

2 Q Am I correct in assuming you are telling me
3 it is preferable rather than absolutely necessary?

4 A Well, absolutely necessary. I suppose you
5 would get -- it would introduce some degree of inaccuracy.
6 That degree of inaccuracy might be negligible, yes.

7 Q Let me ask you, is it your testimony
8 that the transmission of any amount of power, no matter how
9 small, requires a complete revision -- requires a complete
10 review of the transmission capability of an entire system.

11 A Unless you know the system well enough to know
12 what its performance would be without that review, which
13 to me implies you have made the review already, that you know
14 what the system will do.

15 Q So that is it your testimony there are amounts
16 of power that a system planner could on the basis of his
17 present knowledge of his system determine there was sufficient
18 capacity available to transmit. Let me withdraw that question
19 and try to ask it in a more coherent form.

20 Is it possible for a system planner or system
21 designer who knows his system to be able to determine without
22 making a review that the system is capable of carrying
23 a certain additional increment of power?

24 A If he knows his system, yes.

25 Q When you used the phrase "reviewing the transmission

eak4 1 capability of the entire system," do you mean the entire
2 interconnected system or the system of one utility.

3 What are you indicating is required there?

4 A Well, this again, it is a matter of
5 engineering judgment how far you have to go into a system
6 to do it. I don't think anybody takes the whole interconnected
7 system in eastern United States into account in a planning
8 study. They go far enough that the changes they are making
9 in their study do not affect the outside -- beyond where
10 they are going to a sufficient or significant degree.

11 Q What are the engineering factors which can be
12 relied upon in exercising that engineering judgment?

13 A I think it is more experience than engineering
14 factors. You are relying, from repeated tests, you find
15 out whether something is going to affect you or not.

16 Q Would one of the elements be the size of the load,
17 the amount of capacity that is to be -- would one of the
18 factors be the amount of power that is to be transmitted?

19 A Yes.

20 Q Would there be a direct relationship between the
21 amount of power that is being transmitted and the extent of the
22 studies that would have to be performed?

23 A I don't think it would be a direct relationship.
24 There would be a relationship.

25 Q What kind of relationship would exist there?

eak5 1 A I think it is nebulous depending on the particular
2 system and particular location on the system and so forth.
3 You can say in general relationship to the amount of power,
4 the more effect it would have. That is all I would be
5 willing to say.

6 Q Mr. Slemmer, with respect to your requisites
7 for staggered construction, can you explain to me why each
8 utility which is a party to a staggered construction agree-
9 ment has to have the ability to construct large-scale units?

10 A Well, the staggered construction agreement
11 requires them to construct a unit. Now, is it large-scale
12 in terms of the fact of the staggered construction advantages
13 to use larger units than they would use by themselves.
14 That is the term I was using with respect to large units.

15 They have to have the ability to construct the unit
16 that they are agreeing in their agreement to construct.

17 Q Why does each of them have to have that ability.
18 Why isn't it ample for one to have that ability and to con-
19 struct units on both of their behalfs?

20 A It no longer becomes staggered construction. One
21 company is doing the construction then. If one company
22 is doing the construction for both units, that is not staggered
23 construction.

24 Q Wouldn't that depend on the ownership rather than
25 who did the constructing?

eak6

1 A I assume you could have a staggered construction
2 where one company would in the agreement be the constructing
3 agent for all of it. Again, I think when a utility
4 enters into a contract where somebody is going to
5 do something for them, they have to have the ability to
6 supervise and evaluate that contract.

7 Q Wouldn't such a contract result in a smaller, overall
8 number of personnel being required?

9 A It just depends on the circumstances.

10 Q Isn't that a possible result?

11 A It could be.

12 Q Are you familiar with any groups of utilities
13 that have gotten together to build large-scale generation
14 and by large-scale I mean something larger than any of them
15 could build separately, where none of them had the capability
16 alone to build that generation and they had a single agent that
17 would build it for them.

18 A I got lost a bit on that. This covers a joint
19 ownership arrangement?

20 Q Yes, sir.

21 A Yes. I hate to say that none of the companies
22 had the ability to do it. For example, Keystone, it was a
23 larger unit than had been built on the PJM system. It was
24 a larger unit than any of the companies could economically
25 use for their own purposes. Whether one of the companies

eak7 1 could actually have, as far as the actual construction of the
2 job, been able to handle it themselves, they might have.
3 I don't know. It was not a good deal except on a
4 joint ownership basis.

5 Q Sir, if one of the present members of CAPCO
6 was required by the CAPCO agreement to increase the
7 level of reserves it maintained upon joining CAPCO, would it
8 be your testimony that that member had inadequate reserves
9 prior to joining CAPCO?

10 MR. ZAHNER: Could I have the question repeated,
11 please?

12 (Whereupon, the reporter read the record as
13 requested.)

14 THE WITNESS: I think the previous attorney
15 pointed out the thing that I overlooked in that. That could
16 be used as a device for distributing benefits; except
17 for that it would indicate their reserve was inadequate
18 before.

19 BY MR. CHARNO:

20 Q Is it correct then that you would not
21 view an initially inadequate level of reserves as a bar to
22 pool membership if the new entrant was capable of
23 bringing its own reserves up to whatever the pool level was?

24 A That is right.

25 Q Sir, would you agree with the statement that the

eak8 1 major benefits flowing from an interconnection between
2 a large and small utility are the benefits resulting
3 from the changes made in the small system. Pardon me, the
4 method of operation of the small system?

5 A Well, I think it is more than just method
6 of operation. It is the development program and the whole
7 concept of coordination. I think as a general rule that
8 the major benefits come from the changes in the small system
9 This may have exceptions.

10 Q Could you illustrate what some of those changes
11 might be, the principal changes?

12 A Installation of larger units, reduction in reserve
13 requirements for larger units. economy interchange

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EAK 22
ch 1

1 Q What is the basis for your statement that economy
2 interchange would be one of those benefits to the small system
3 or from the small system's operations?

4 A One of the, shall I say, disadvantages of small
5 units is the high cost of energy from the unit. The larger
6 unit has a lower cost of energy. So the difference in the cost
7 of energy between the large system and the small system might
8 tend to benefit the small system.

9 Q With respect to the benefits for purposes of this
10 question of economy energy at what point would those benefits
11 be allocated? At the time the energy was bought and
12 sold through the price paid, or would they be allocated at
13 the time the interconnection agreement was established
14 through some other medium?

15 A Usually the procedure is that the principle, the
16 method of allocation is established as part of the contract.
17 The actual allocation is made on hour to hour basis from
18 the allocation of what actually happened. The contract may
19 provide that the benefits are going to be -- the savings are
20 going to be divided equally. That sets up the method of
21 doing it.

22 Each hour you have to determine what the costs
23 were and the payment for that hour and divide it on the basis
24 of that hour's operation.

25 Q Are you saying, then, that the benefits in economy

ch 2

1 energy transactions are distributed at the time the sale is
2 made?

3 A. The actual -- well, again, the distribution is
4 determined at the time the sale is made. The actual exchange
5 of check or settlement, whatever it is, is on a monthly
6 basis. You don't make out a bill every hour.

7 Q. Is the allocation of those benefits determined at
8 that time or at the time the interconnection agreement is
9 initially negotiated.

10 A. The basis for the allocation is determined at the
11 time the interconnection agreement is negotiated. The actual
12 allocation in dollars is made on an hourly basis.

13 In time, this may be done the next day, as a matter
14 of record, but it is done on an hourly basis for the particular
15 hour.

16 Q. Can you tell us what methods of allocating
17 the benefits flowing from economy energy transactions you are
18 personally familiar with?

19 A. The most common method is the split savings on
20 equal basis. I have seen one arrangement where the savings
21 was not split equally.

22 Q. What was the basis for allocation there?

23 A. As I remember, it was 60-40. I would have to check
24 the figures. I remember it was not a 50-50 split.

25 Q. Do you recall what entities the agreement was

ch 3

1 between?

2 A I would have to go back and check. The only
3 thing that impressed me was that it was not 50-50.

4 Q Sir, are you aware of any agreement for coordinated
5 operation and development where one of the parties to the
6 agreement does not provide any reserves?

7 A I don't think of any right now, no.

8 Q Do you recall previously mentioning the agreement
9 between Ohio Power and Buckeye in that context?

10 MR. ZAHLER: Objection.

11 I don't think the witness testified to any agree-
12 ment between Ohio Power and Buckeye.

13 MR. CHARNO: I asked if he recalled previously
14 mentioning it. I didn't ask him if he testified to it today.

15 MR. ZAHLER: Previously when? Outside of this
16 hearing room.

17 MR. CHARNO: Definitely outside of this hearing
18 room.

19 MR. ZAHLER: Then I don't understand the scope of
20 the question Mr. Charno is asking.

21 MR. CHARNO: I am trying to refresh his recollection.

22 MR. ZAHLER: What is it related to in his testi-
23 mony?

24 MR. CHARNO: The relevance of coordinated operation
25 and development agreement where one side isn't providing

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reserves. It is related to a number of aspects; if nothing else, the mutuality of benefit principle.

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THE WITNESS: Should I answer the question?

4

CHAIRMAN RIGLER: Yes.

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THE WITNESS: The only memory I have of referring to the Buckeye was this morning on this wheeling thing. I don't recall any other --

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BY MR. CHARNO:

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Q You don't recall mentioning that in your testimony in Consumers?

11

12

A I am sorry. I don't remember. I might have done it. I don't know.

13

14

Q Sir, I believe this morning in answer to one of the Chairman's questions, you indicated that the receipts of revenues in and of itself would not constitute a sufficient benefit for certain types of transactions. Is that correct?

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A This perhaps requires a little explanation. A lot of pool transactions -- I should say in a lot of pool transactions, a part of the payment is a return of similar services. So that pricing is not based on a price that will necessarily cover the entire cost of furnishing the service.

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Now, if the service is always going in one direction so that there is no return of similar services, then the pricing has to be looked at to be sure it does cover all

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of the costs of furnishing the service.

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MR. CHARNO: Could I have that answer back, please?

3

(The reporter read the record as requested.)

4

BY MR. CHARNO:

5

Does the fact that a price doesn't necessarily cover the cost of transaction result from inadvertent error, or is that intentional?

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A. That is intentional.

9

10

Q. Sir, I would like to read you a statement which is a definition of net benefit and ask you if you can agree with it.

11

12

CHAIRMAN RIGLER: Can agree with it or do agree with it?

13

14

MR. CHARNO: Do agree with it.

15

This is a statement that you previously made when you testified in Consumers.

16

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MR. REYNOLDS: Could we have a page reference?

18

MR. CHARNO: 8852-3.

19

"So long as the deal they make is beneficial to their costs so they can reduce the rate to their customers or prevent increasing rates to their customers, they can consider that a net benefit."

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THE WITNESS: Could I see the context of that statement? I am not sure what it is referring to.

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MR. CHARNO: Certainly.

ch 6

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MR. ZAHLER: Could I have a moment to review the transcript before the witness answers, also.

THE WITNESS: This particular question was in terms of sale by a utility to a customer. And it had to do with regulation. If the regulation provided a full return for the cost of the utility -- I think I can agree with it on that concept, yes.

CHAIRMAN RIGLER: Read the statement to me again, please.

MR. CHARNO: The part originally stated was, "So long as the deal they make is beneficial to their customers so they can reduce their rates to their customers or prevent increasing rates to their customers, they can consider that a net benefit."

end 22

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1 CHAIRMAN RIGLER: Mr. Slemmer, is that statement
2 true only in the circumstances you just mentioned, which
3 I understood to be a customer transaction.

4 THE WITNESS: Yes. If it is not a customer
5 transaction, in other words, if it is a transaction
6 between the two utilities on a pool basis, I don't think
7 not increasing the cost would be a net benefit.

8 That would be zero. In this case I think it would
9 have to have a positive benefit.

10 This context was in taking on a new customer,
11 and its effect on other customers.

12 Certainly I don't think in taking on a new
13 customer, they would have to reduce their costs to the other
14 customers.

15 They should not increase the cost to the other
16 customers.

17 They are two entirely different situations.

18 BY MR. CHARNO:

19 Q Sir, let me direct you to page 31 of your direct
20 testimony and specifically the answer that begins on
21 line 4 and ends on line 10.

22 Can you tell us what you meant by the last
23 sentence of that answer?

24 A Well, that is based on an assumption that the
25 singly, jointly owned unit would be a baseload unit,

bw2 1 large size baseload unit and a large size baseload unit, if
2 you are using it for a peaking service, is not
3 economical.

4 To get an economical mix of generation you have
5 to have units for baseload, units for peaking load.

6 Most people also put in an intermediate
7 class of cycling or intermediate unit between the
8 base and the peak.

9 Those zones zones are entirely arbitrary.
10 There is no fixed definition of them. Whether it is a base-
11 load unit or peaking load unit, it would not cover the
12 entire range in an economic manner.

13 Q Would it be true you couldn't effectively
14 use that baseload unit without access to types of, some other
15 types of power supply, other than that baseload unit?

16 A In order to have an economical mix of generation,
17 you would have to provide the other types, yes.

18 I'm not sure that that answer is complete
19 in this respect.

20 If you own the baseload unit, so that your
21 fixed costs of that unit are already there, then it
22 might pay you to go ahead and use it.

23 In this cost, I am thinking of ownership
24 costs, as well as operating costs.

25 Q Is it your testimony, however, that the overall
economies could be maximized by having a mix of generation?

bw3 1 A Yes, that is right.

2 Q Sir, when you use the phrase in your testimony,
3 in a number of places, significant benefits, what do you
4 mean by the phrase "significant"?

5 A My definition of that is that it is of a sufficient
6 quantity to provide incentive to make the arrangement
7 work.

8 Whatever it is you are deriving the benefits
9 from.

10 Q Would you be able to set forward a standard that
11 this Board could utilize to determine in every case what
12 constituted a significant benefit for another party?

13 A Not a fixed standard. I think anything of
14 that kind would have to be arranged. It would fall within
15 certain -- I don't think I could -- I doubt I can do that
16 without the specifics of the particular arrangement.
17 There are too many things that enter the determination,

18 Q What would be the things that would enter into that
19 determination?

20 A Well, thing that came to my mind right at the
21 moment would be the amount of risk involved. If someone
22 is making a large investment and there is risk involved
23 to it, he has to have a little more assurance of net benefit
24 than if he is justing going in on a no investment basis
25 and taking it as it comes.

bwd

1 Q Can that be quantified?

2 A To some extent, but not entirely.

3 Q Are there any other factors

4 that come to mind?

5 A Well, one of the problems that often comes up
6 is whether you are economically using your energy source,
7 whether you are using your supply of coal where you should
8 not be.

9 I think there are others. There might be --
10 I think I mentioned this morning the effect on the economy
11 of the area you served, your public impact, the
12 acceptance by the public.

13 I think there are a lot of things that have to be
14 considered.

15 Q Are any of these factors you just named subject
16 to quantification in any precise manner?

17 A Not in any precise manner. Of course, your
18 environmental hearings and so forth are quantified in terms
19 of cost. You still have an intangible there, even after
20 you get your license or permit or whatever it is, you still
21 have the effect of the public's opinion of you.

22 Q I think I would like to go back to that
23 quotation concerning a net benefit, and put the question
24 and answer in, and then pose a question to you
25 concerning it. The question was: "Well, let's assume that

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1 you have an electric utility, Mr. Slemmer. We will get
2 a little closer to the matter at hand. The electric
3 utility can sell its product for five cents a kilowatt,
4 but a regulatory agency directs it to sell its product
5 for only one cent a kilowatt, because its cost,
6 including reasonable return, is one cent a kilowatt.

7 "Under those circumstances, would you say that
8 an electric utility would not do a good job, because it
9 has no incentive to produce and sell electricity?"

10 You entered a question as to the price of the
11 power, and it was repeated.

12 Then you answered on 8363 at line 7:

13 "I would not say that, no. Actually, the
14 utilities that I am accustomed to working with
15 consider these things in terms of benefits to their
16 customers.

17 "The fact that they are regulated is
18 part of the engineering economics of the industry. So
19 long as the deal they make is beneficial to their costs,
20 so they can reduce their rates to their customers or
21 prevent increasing rates to their customers, they
22 consider that a net benefit."

23 Now, is it your testimony that the
24 relationship of incentives and net benefits changes when
25 it is in the context of a pooling transaction as opposed
to the context of a sale transaction?

bw6 1 A To this extent. The part of the
2 utility's objection is to render service to the
3 customers in its area.

4 If it can take on an incremental customer at
5 a rate that will produce equal to its cost, then the fact
6 it is serving its customer provides the positive net
7 benefit.

8 It would, I think, on a particular customer
9 like that, it would like to have a little bit to give
10 the rest of its customers some benefit from it.

11 But it does have to meet that obligation of
12 serving its area.

13 Q So that this obligation constitutes some
14 additional net benefit; is that right?

15 A Yes, that is right.

16 That is his lifeline, serving this area.

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2 one of the engineering benefits or would it fall into the
3 category of what you called intangible benefits?

4 THE WITNESS: It would fall in the
5 intangible benefits category.

6 BY MR. CHARNO:

7 Q Now, briefly recapping some of your prior testi-
8 mony, I believe you have testified that the determination
9 of the overall amount of net benefit flowing from a pool
10 or interconnection can be determined and is determined
11 by engineering economic methods.

12 A Yes.

13 Q Is that net benefit derived by taking the cost
14 of transaction and deducting those costs from the
15 potential savings of the transaction?

16 The benefits are determined by comparing the
17 overall results with the transaction as compared to the over-
18 all results without the transaction.

19 In both cases, you are computing costs.
20 The benefit is the difference between two costs.

21 Q Okay. Is it also your testimony that the allocation
22 of those net benefits is purely a matter of bargaining or
23 negotiating?

24 A No, I think my testimony is that there are
25 limits and within certain limits, it is a function of

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1 bargaining or negotiating. But there are certain limits
2 beyond which a company cannot afford to go.

3 In other words, that limit is the point where
4 it has a significant benefit to provide its incentive.

5 This gives a line on each side. The rest of
6 it is a negotiating area.

7 Q So, basically, the negotiating area is
8 between the cost of the transaction, and the value of the
9 transaction to each individual?

10 A The cost of the transaction, plus some benefit
11 to give him an incentive to do it, and the value less some
12 benefit to give him the incentive to do it.

13 Q I'm trying to get the outer parameters within
14 which negotiations will take place.

15 A I don't think the negotiations can take place
16 at a zero net benefit level.

17 CHAIRMAN RIGLER: You have said there have to be
18 significant benefits. And the place that I keep coming to
19 in misunderstanding of your testimony, is that this
20 doesn't square with your empirical approach of weighing
21 the two alternatives.

22 It seems to me, as long as one's alternative
23 is superior to the other to any degree, that would afford
24 a benefit.

25 I don't understand why you keep imposing

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the additional qualification that the benefit be significant.

1 THE WITNESS: I think we are --- I think
2 I have confused two operations here.

3 The first operation is the determination of the
4 overall evaluation of the transaction, for everybody
5 concerned where there are net benefits available. That is
6 number one. After you have determined that there are overall
7 net benefits available, then you apportion these benefits
8 between the parties on the basis of a cost allocation. There
9 is where, in that allocation you have to provide each
10 party with enough incentive to go ahead and make it work.

11 CHAIRMAN RIGLER: But, as I look at your, let's
12 say, alternate analysis method, which the only method you
13 have described to compute these benefits, it seems to
14 me, any benefit resulting from this alternate analysis
15 basis would provide an incentive to join the pool or to
16 function as a member of the pool.

17 THE WITNESS: Well, I think we are talking about
18 how much is a little bit.

19 CHAIRMAN RIGLER: How much is significant.
20 I don't understand the necessity for the incentives
21 that the benefits be significant.

22 THE WITNESS: I think probably the area of
23 misunderstanding is that these determinations of benefits
24 are estimates.

25 Certainly, there should be enough margin in

bw4 1 there to be sure that you are going to have a benefit.

2 Actually, as opposed to the estimate.

3 CHAIRMAN RIGLER: That I don't think answers

4 my question either, because the benefits would be

5 read by the party who is making the alternate assessment.

6 THE WITNESS: Yes.

7 CHAIRMAN RIGLER: He doesn't need any margin.

8 Once he determines that there is a benefit of any nature

9 by one course of action as opposed to the alternate course of

10 action, he will have seen the benefit.

11 THE WITNESS: This is in allocating the benefits

12 for the -- allocating the overall benefits to the individual

13 partners.

14 I am back to the two steps. Are we evaluating

15 whether the overall transaction is good or are we taking

16 second step as allocating the benefits?

17 CHAIRMAN RIGLER: Well, from the point of view of

18 the individual company seeking membership or participation,

19 that company is going to look at it in terms of whether

20 it achieves any benefits; isn't it?

21 THE WITNESS: I think it should look at both.

22 I think it should assure itself that there is overall

23 benefit.

24 If there is overall benefit, it should assure

25 itself in its bargaining that it has a position where it

1 could get a share of it.

2 CHAIRMAN RIGLER: Suppose there is no overall
bw5 benefit, but it would have a benefit?
3

4 THE WITNESS: Then it shouldn't be in the pool.

5 CHAIRMAN RIGLER: As long as the company itself
6 achieves a benefit, why wouldn't they favor the transaction?

7 THE WITNESS: If it achieves a benefit, where there
8 is no overall benefit, then it is talking something away
9 from somebody else, which, in my opinion, is not a good
10 business practice.

11 Over the long run, the way to get along with
12 people you are dealing with, is to share benefits with
13 them, have a deal that has an overall benefit and share it,
14 not trying to get something at his expense.

15 MR. SMITH: The benefit that provides the
16 incentive is not necessarily the benefit allocated among
17 the participants; could that be correct?

18 THE WITNESS: The overall benefits that
19 provides to the total that this is a good deal, this is a
20 good thing to do --

21 MR. SMITH: Don't you have some time benefits
22 which exceed the -- never mind that.

23 Let's assume a potential participant in a pool
24 is faced with the alternative -- three alternatives, one,
25 go out of business, two, build its own system up to a more

1 efficient level or, three, join a pool.

bw6

2 It can join the pool and provide benefits
3 for the other participants in doing that.

4 But isn't its decision going to be based
5 upon the benefits it gains vis-a-vis its alternatives?

6 THE WITNESS: This is right. There can be
7 benefits that accrue to one participant that have no
8 direct relationship to the benefits of the total transaction.

9 MR. SMITH: Aren't they the incentive benefits?

10 THE WITNESS: They could very well be the incentive
11 benefits, yes.

12 BY MR. CHARNO:

13 Q Is the allocation of benefits as opposed to
14 the determination of the overall amount a business
15 decision that is made by each utility, as opposed to
16 an engineering or economic decision?

17 A It is a business decision, based on engineering
18 economic determinations of the basis for that decision.

19 Q Let me backtrack for a moment.

20 When you, in your answer, say that it is based
21 upon engineering economics, you mean the total amount of
22 benefits to be allocated is based on engineering economic
23 methods; is that correct?

24 A No, it goes further than that. In making
25 your deal, you will come up with some kind of a proposed

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1 arrangement and it would be an economic, engineering
2 economi analysis to determine what the effect of that
3 arrangement is to be on each of the parties.

4 That engineering economic analysis will then be
5 the basis for those parties to make their business
6 decision.

7 Am I making myself clear or not?

8 Q No, you are not.

9 A I don't think this is a case where you can come
10 up with an overall benefit and say, we have a million dollars
11 to split, and we will split it 50-50.

12 You have to come out with some kind of working
13 arrangement that the details, the way the operation is
14 going to be carried out and that working arrangement will
15 result in some benefits or some type of benefits to
16 each party.

17 Q Don't you decide the allocation of the benefits
18 before you decide the working arrangement which is going
19 to result in the distribution of that allocation?

20 A No, you do not.

21 The decision of the working arrangement is what
22 provides the allocation of benefits.

23 This is the way you determine whether you want
24 to go along with that working arrangement or not. Under
25 all of the possible conditions, am I in a satisfactory

bw8

1 position.

2 Q Can you give me an example of that, sir.

3 A Yes. For instance, one of the things that
4 would be set up in the arrangement might be a formula
5 for developing reserve. Does this formula for developing
6 reserve, as I apply it to my system, permit me
7 flexibility to build it to my system in an economical
8 manner and still provide me a benefit with that
9 transaction?

10 Or should I forget that benefit and build my
11 system another way?

12 Each particular item that is spelled out in the
13 contract has a principle for the way the thing is going to
14 operate. It has to be evaluated to its effect on the
15 party participant.

16 Q Isn't the decision made when you are faced
17 with benefits and detriments and striking a balance and
18 determining whether benefit is significant or not, a business
19 decision that is made by the parties?

20 A That final decision is a business decision,
21 yes.

22 Q The data that is used to make that decision
23 is arrived at through engineering?

24 A That is right.
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BY MR. CHARNO:

Q Sir, let me direct your attention to your testimony on page 9, beginning at line 13, running through line 20.

It states, "It is only when each member of the pool can determine that its participation in the arrangement promises to produce significant net benefits to its own system -- that is, a benefit as compared to what it could achieve by operating outside the pool -- that there exists a sufficient common incentive to see to it that the pool remains viable and continues to operate successfully."

Would you say that test had been met in the context of the CAPCO Pool?

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1 CHAIRMAN RIGLER: He said he hasn't studied the
2 CAPCO Pool. How would he know?

3 I will permit him to answer if he can.

4 THE WITNESS: What I was going to say is the only
5 way I can answer that is the CAPCO Pool is still operating
6 and shows signs of life. It must be viable.

7 BY MR. CHARNO:

8 Q Now, sir, if a utility with, say, 3 megawatts of
9 load and a megawatt and a half of capacity -- pardon me.
10 The other way around. Three megawatts of capacity and a
11 megawatt and a half of load wished to join that pool,
12 let's say it did join CAPCO, would that diminish the benefits
13 to the existing CAPCO members?

14 A Without making a specific study I cannot say it
15 would or wouldn't. Just as a rule of thumb or as a matter of
16 experience, putting in a system of that size would probably
17 increase the administration costs and this more than it
18 would decrease the actual power production costs. It would
19 probably be a detriment to the pool. I would have to study
20 it to determine that.

21 Q Let's leave that question aside and not worry about
22 any*additional transaction costs brought about by the
23 addition of the one member to the pool.

24 Would you believe that that addition of the one and
25 a half megawatt load or the 3 megawatt capacity system to

ch 2

1 CAPCO would significantly diminish the benefits which exist
2 for any of the members?

3 A We are leaving out all of the costs except the pure
4 power production?

5 Q We are leaving out the transaction costs.

6 A Everything but the power production costs?

7 Q Right.

8 A I don't see where that would significantly reduce
9 the power production costs for the pool.

10 Q Do you believe they would still have the incentive
11 to stay in the CAPCO Pool?

12 A I would think each CAPCO member would, yes.

13 MR. ZAHLER: With the assumptions you made
14 before.

15 CHAIRMAN RIGLER: Mr. Zahler.

16 MR. ZAHLER: I want to know if Mr. Charno was asking
17 the question with the assumption he made before.

18 MR. CHARNO: The assumption continues right along.

19 BY MR. CHARNO:

20 Q Would you expect, in accord with the general
21 principle you stated earlier, that a small system, changes
22 in a small system provide most of the benefits of an inter-
23 connection, that most of the benefits generated by this would
24 be provided in the small systems --

25 A If there are any benefits provided, I think they

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1 would be in the small system, yes. Again, we don't have any
2 definition, but you would expect that.

3 Q So, again, leaving aside the cost of administering
4 the pool as a factor, would you see a reason that the small
5 system shouldn't be allowed to join the pool under these
6 circumstances?

7 A Let me be sure we are in agreement on what we say
8 when we say leave aside the cost of administering the pool.
9 These costs are not cost to the pool office or anything of this
10 kind. These are costs to the company themselves in their
11 pool activities.

12 Q Just a moment.

13 I think we are probably having a bit of a problem.
14 Are we talking about the overall costs of pool
15 operations?

16 A Including the cost of the individual companies for
17 their representatives on pool committees, their activities
18 in connection with the pool and so forth.

19 Q Okay.

20 A A big part of these costs never show up in the
21 pool office costs that are allocated to the companies.

22 Q Okay.

23 These are the basic two categories of costs we are
24 leaving aside for purposes of answering the question.

25 On that basis, would the reporter -- forget my

ch 4

1
2 categorization. Those are the costs we are leaving aside, the
3 costs you have outlined. Will the reporter read back my
4 question?

(The reporter read the pending question.)

5 BY MR. CHARNO:

6 Q I will rephrase the question.

7 Leaving aside the joint pool costs which may or
8 may not be affected and the costs of participation by indi-
9 vidual pool members, either the new or existing, is there any
10 reason why the small system should not be allowed to join
11 the pool?

12 A I have no ingrained objection for small systems
13 joining a pool. There are a lot of things that have to be
14 considered.

15 For instance, if you have 100 of those small
16 systems, you would have to draw the line some place, which
17 one would you draw?

18 Q If one small system in the context --

19 MR. ZAHLER: Could the witness finish the answer.

20 MR. CHARNO: We could do it by having the
21 witness answer the question.

22 BY MR. CHARNO:

23 Q One small system in the context you set forth on
24 page 9 of your testimony.

25 A If they provide an overall benefit, and I am not

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sure how you will provide an overall benefit when you get to these costs, but if they do, then they could join the pool.

Q That is not the assumption we reached. I am asking within the context of your tests where the only benefit that we have discussed is the benefit to the small system, and the absence of detriment to the large systems in the pool.

A My difficulty is with the forgetting of these costs.

Q I am asking you as an expert.

A If you make the assumption so that the benefits to the small system are sufficient to cover all of the costs and still have a benefit, then I say there is no reason why the system should not join the pool.

Q I am asking you as an expert to answer the hypothetical question without consideration of those costs.

Are there any other reasons other than those costs?

A When you say "without consideration of those costs" am I to assume they will be paid from some other source? What is the assumption?

Q Assume that the costs, any increase in cost doesn't exist, that the addition of that one small member will not increase costs.

A If we take that as a working assumption, then I see

1 no reason why that small company should not be a member of
2 the pool.

3 Q Let me make sure we have all of our assumptions
4 together.

5 A This gets complicated.

6 Q It does, indeed.

7 With the exception -- strike that. We have a situ-
8 ation where a small system is joining a pool. There are net
9 benefits to the small system. No detriment to the large
10 system. And we are forgetting the question of whether that
11 small system's participation in the pool would increase either
12 (a), the overall pool administrative expenses or, (b), the
13 individual members' costs of operating within CAPCO.

14 And it is your testimony in that context that you
15 see no reason the small system should not become a member of
16 the pool?

17 A In that context, I see no reason why it should
18 not, this one small system.

19 Q Mr. Slemmer, if we are going to break soon, I
20 would prefer to do it now before starting the next line.

21 CHAIRMAN RIGLER: I have a question that is in
22 this area, I think.

23 If I told you a minute ago about a problem I had
24 relating to significant net benefit and alternative
25 analysis --

ch 7

1 THE WITNESS: Yes.

2 CHAIRMAN RIGLER: I told you I didn't see the reason
3 why you include the word "significant" in the benefit if you
4 were using alternative analysis, and you responded, as I
5 understood you, that there were two considerations.

6 First, a significant net benefit to the pool as
7 a whole. It was only after you determined a significant net
8 benefit to the pool that you went into the method of alterna-
9 tive analysis to see if there was an incentive for the
10 individual company.

11 Did I understand you correctly?

12 THE WITNESS: I am afraid I misled you again.

13 The determination of the net benefit, whether it
14 is for the entire group, the old pool plus the new members, or
15 one of the parties, would normally be done on the basis of al-
16 ternative analysis. This is the basic procedure for deter-
17 mining the net benefit.

18 You would determine the costs, all the costs you
19 can assign dollar values to. Production costs, transmission
20 costs, administrative costs, operation, maintenance and the
21 whole list on the two alternative bases and come out with a
22 dollar evaluation of net benefits.

23 Now, either time you determine the net benefits,
24 this is the way it is. This is the way it was done.

25 CHAIRMAN RIGLER: Let's think about the time it is

1 being done by the individual company to determine if it wants
2 to join the pool because it achieves any net benefit as op-
3 posed to its alternative.

4 THE WITNESS: Yes.

5 CHAIRMAN RIGLER: Why does that benefit have to
6 be significant?

7 THE WITNESS: Why could they do it on an insignifi-
8 cant benefit? The term "significant" to me means it is
9 enough they are sure they will get something out of it,
10 and they will go ahead and do it.

end 24
begin 26

11 CHAIRMAN RIGLER: Aren't they sure they will
12 get something out of it as a result of the alternative
13 analysis? Isn't the purpose of the alternative analysis
14 exercise --

15 THE WITNESS: Yes. But the alternative analysis
16 is looking into the future and things that are unknown. There
17 are certain risks involved, and this sort of thing. You try
18 to evaluate those the best you can.

19 There are still some unknowns in the future. You
20 are not sure what will happen in the future.

21 CHAIRMAN RIGLER: In relation to the hypothetical
22 you were just discussing with Mr. Charne, talking about the
23 possible benefits a small system could bring to a pool --

24 THE WITNESS: Yes.

25 CHAIRMAN RIGLER: Suppose a municipality could

1 obtain cheap public preference power and use this cheap power
2 as a part of its generating allowance or quota.

3 Would this be a benefit to the pool as a whole?

4 THE WITNESS: This is available to it because
5 of its joining the pool?

6 CHAIRMAN RIGLER: No. This is available to the
7 small system. We are addressing the question of what contri-
8 butions, what benefits can a small system bring to the pool.

9 Suppose it had self generation but that its
10 costs were no less than anybody else's, its reserves would not
11 add significantly to the pool, but it could bring in cheap
12 public preference power as part of its power production quota
13 or capability.

14 THE WITNESS: As a part of its alternative with
15 the pool. It would be different from its alternative without
16 the pool. Then it would provide an overall net benefit.

17 CHAIRMAN RIGLER: No. At the time it applies
18 for membership as part of its power generation it can
19 bring to the pool low-cost power.

20 THE WITNESS: Then in determining the net benefit
21 that low-cost power is in both alternatives, so it does
22 not come into the net benefit.

23 CHAIRMAN RIGLER: To the pool.

24 THE WITNESS: It is there regardless -- to the
25 whole partnership?

ch 10

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CHAIRMAN RIGLER: From the point of view of the pool.

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THE WITNESS: From the point of view of the pool, again, distributing benefits. From the pointer of view of the pool, if that were available to the pool through the pool arrangement, it might provide a net benefit. If the other companies could use it.

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MR. REYNOLDS: Mr. Rigler, could I ask, did you mean that that small entity could not make available the preference power to any member of the pool without being a member of the pool, but could only do it if it became a member of the pool?

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Is that what you are asking?

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CHAIRMAN RIGLER: No.

MR. REYNOLDS: It could be made available as a member of the pool or that the small entity could make it available to any member of the pool without membership?

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CHAIRMAN RIGLER: I meant this is something it wanted to bring to the pool when it discussed benefits it could provide to the pool.

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MR. REYNOLDS: Could it provide it otherwise?

CHAIRMAN RIGLER: That is irrelevant to the question.

MR. REYNOLDS: If you are assessing alternatives, it would not be irrelevant.

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CHAIRMAN RIGLER: Assume it wouldn't be made

ch 11

1 available unless the small system had membership.

2 THE WITNESS: That was the assumption I made.

3 CHAIRMAN RIGLER: We can take five minutes.

4 (Recess.)

5 BY MR. CFARNO:

6 Q Mr. Siemmer, are you aware of different methods
7 in which a party can participate in a pool?

8 A Of different methods: yes.

9 Q I believe you testified about some kind of satel-
10 lite or associate membership that was available in PJM.

11 A In PJM; yes.

12 Q Also a method by which a number of small systems
13 could be represented by a single agent in a pool.

14 A In the NEPOOL, right.

15 Q To the best of your knowledge, does this reduce
16 the viability of the pools in which it is practiced?

17 A Reduce it in terms of what? Reduce from what?

18 It increases it as compared to those that are
19 satellite members being full members.

20 Q These methods would be a way of reducing the
21 cost of having small members as participants in a pool?

22 A That is right. That is the advantage of it.

23 Q In that case, is the number of parties partici-
24 pating in a pool, as opposed to being members of a pool, not
25 as significant to the pool's costs or viability as the manner

1 in which those utilities participate in the pool's benefits?

2 A The element that has the largest effect on the cost
3 and viability is the number of full members that have to be
4 represented in all of the pool transactions.

5 Did that answer the question? I am not sure
6 whether it did.

7 Q I think it did.

8 MR. CHARNO: I have no further questions.

9 CHAIRMAN RIGLER: Mr. Zahler.

10 REDIRECT EXAMINATION

11 BY MR. ZAHLER:

12 Q Mr. Slemmer, earlier this morning, you started
13 to give some testimony concerning a correction that you
14 wanted to make as to your earlier testimony regarding NEPCOL.

15 Would you please indicate in what manner you would
16 like to correct your testimony?

17 A Yes. I think yesterday I said that I did not
18 believe -- that I thought the NEPCOL membership required a
19 minimum of 25 megawatts generation. Since then, I have had a
20 chance to look at the FPC decision on the NEPCOL, which
21 describes the arrangement in some detail, and I find that that
22 25 megawatts was in terms of its qualifying for a certain
23 transmission participation, that the membership per se in
24 NEPCOL is not based on the 25 megawatt generation.

25 Q Would that fact affect your testimony that it is

ch 13

1 imperative that each member of a pool provide significant
2 benefits to the total pool operation?

3 A No, it would not.

4 Q Why is that?

5 A In order to make the pool viable, there have
6 to be benefits, overall benefits.

7 Q How is it that the fact that NEPOOL has members
8 that don't have installed generating capacity as satellite
9 members impact on whether or not they contribute a total
10 net benefit to the pool?

11 MR. CHARNO: I object. I can't believe this
12 is the context to which the witness has referred to satellite
13 membership.

14 CHAIRMAN RIGLER: Let me hear the question.

15 (The reporter read the pending question.)

16 CHAIRMAN RIGLER: Overruled.

17 THE WITNESS: I am not sure that I understood the
18 question.

19 You want to know how it is that the fact that
20 members can be members of NEPOOL without having generation
21 does not impact on the requirement for net benefit?

22 BY MR. ZAHLER:

23 Q That is correct.

24 A Their benefit that they bring to the pool would
25 have to be something other than generation. It could be in

ch 14

1 some other area than providing necessary generation.

2 Q Mr. Slemmer, if an entity seeking membership to
3 a pool could bring only money to the pool to pay for all of
4 its transactions in that pool, would you recommend that
5 that entity be admitted to a pool?

6 A Not really. If they bring only money, this indi-
7 cates that the transactions will always be in one direction.
8 I think I have said before that the pricing in a pool is
9 based on an expectation of reciprocal service, service going
10 in both directions.

11 The pricing does not necessarily represent the
12 entire cost of rendering a service. If the service is always
13 going in one direction, then the pricing has to reflect the to-
14 tal cost. So the pool pricing would not necessarily be
15 appropriate.

16 Q What would be an appropriate form of pricing in
17 such a situation?

18 A This gets more into the area of a wholesale power
19 contract or something of this kind.

20 Q You also indicated in your testimony that there
21 were some pools that have members that had different financing
22 costs.

23 Do you know if any of those pools have joint
24 construction programs wherein all generating facilities
25 to be committed by the parties to the pool are required to be

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done on a joint basis?

A. I know of no such pool with different financing costs, no.

MR. SMITH: Excuse me.

Are the pools you are familiar with all have identical financing costs?

THE WITNESS: No. But there are not very many pools who require all units to be done on a joint basis. In fact, I think CAPCO is the only one that has that requirement, as far as I know.

MR. SMITH: Don't financing costs differ even among investor-owned utilities?

THE WITNESS: Yes, to some extent.

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1 CHAIRMAN RIGLER: Even within CAPCO one might
2 expect financing costs to vary member by member.

3 THE WITNESS: To some extent, yes.

4 BY MR. ZAHLER:

5 Q Mr. Slemmer, going back to your testimony
6 earlier this morning, when you were asked about
7 different financing costs, how did you interpret that
8 question?

9 A I was thinking in terms of a publicly-financed
10 as against a privately-financed.

11 Q Have you finished your answer?

12 A Yes.

13 Q Do you know what the average variation in
14 financing costs would be between the CAPCO members?
15 Would it be as great as the costs between a public system
16 and an investor-owned system?

17 MR. LESSY: Objection. Two seconds.

18 One, he indicated he doesn't have specific
19 familiarity with CAPCO. Two, I submit this area of
20 financing costs and their average is beyond his expertise,
21 as an engineer, even in engineering economics.

22 Absolutely, financing costs has no relation,
23 as I see it, to engineering.

24 MR. ZAHLER: Can I ask that question?

25 CHAIRMAN RIGLER: I wondered if you had a

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1 response? I agree with both of Mr. Lessy's points, but
2 if the Witness knows the answer, I see no reason why he
3 can't give it.

4 THE WITNESS: How specific was the question?

5 CHAIRMAN RIGLER: If you don't know, if you are
6 speculating, you are advised not to answer.

7 If you know, it seems a basis for answering
8 the question would be a knowledge of CAPCO financing
9 costs.

10 THE WITNESS: I have no specific knowledge.

11 MR. ZAMLER: Let me withdraw the question
12 and rephrase it.

13 BY MR. ZAMLER:

14 Q In your experience, Mr. Slesner, are the
15 financing differences between investor-owned utilities, such
16 as the financing costs between investor-owned utilities
17 and public-owned utilities?

18 A No, they are not.

19 MR. SMITH: Did you know difference in the
20 financing costs in the Michigan Pool?

21 THE WITNESS: As I remember, we had from the
22 companies in the work we were doing in Michigan the specific
23 costs at that time.

24 MR. SMITH: Could you give us an answer based upon
25 that?

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1 THE WITNESS: I don't remember what they were
2 now.

3 Numbers get away from me.

4 BY MR. ZANLER:

5 Q Mr. Slemmer, can you give us an
6 order of magnitude with respect to the Michigan pool?

7 MR. LESSY: I object to that in light of his last
8 interchange with Mr. Smith. He said numbers got away
9 from him.

10 MR. ZANLER: The question is whether he could give
11 us an order of magnitude as to Mr. Smith's question.

12 CHAIRMAN RIGLER: If he can, he can.

13 THE WITNESS: In the Michigan Pool, the overall,
14 including return on equity and the whole ball of wax,
15 as I read was somewhere around 11 percent.

16 4/ In a public-finance pool that would be more in
17 the order of maybe eight percent.

18 I wouldn't want to stick definitely to the
19 figures.

20 BY MR. ZANLER:

21 Q Mr. Slemmer, based on your experience in the
22 Consumers proceeding, can you give me an order of magnitude
23 of the difference in financing costs between the companies
24 who participate in the Michigan Pool, that is an order of
25 magnitude of the difference of financing costs between

1 Detroit Edison and Consumers Power?

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2 A As I remember it was less than one percent.

3 Q Mr. Slemmer, as I understand the thrust of
4 your testimony, it is that, and correct me if I am wrong,
5 that the engineering and system operating constraints
6 that you study provide the outer boundaries within which
7 decisions as to the allocations -- first of all, as to
8 whether there is a total net benefit to taking any action,
9 and then how that is allocated among the parties; is
10 that correct?

11 MR. CHARNO: Could I have the question back?

12 (Whereupon, the reporter read the
13 pending question, as requested.)

14 THE WITNESS: Can I state it, the first step
15 in determining the, whether there are overall net benefits,
16 is a determination that there is or there isn't or it's
17 a wash.

18 Then the second step where you have a -- if you have
19 a -- if you have determined that it is something to go
20 ahead with, then the second step, where you are
21 allocating the benefits or allocating the costs to
22 provide an allocation of the benefits, then it becomes
23 a place where you have to have a net benefit for each person.

24 Does that answer your question.

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1 BY MR. ZAHLER:

2 Q I think the question was awkwardly worded,
3 but I will proceed from there.

4 CHAIRMAN RIGLER: The question you posed was
5 at odds with his testimony.

6 Your question was whether the outer boundaries
7 were determined by the engineering economic analysis.

8 My recollection of his testimony is that
9 that was one component and the other component was what
10 he called intangible benefits.

11 It was the sum of those components that afforded
12 the total net benefits.

13 BY MR. ZAHLER:

14 Q Is the Chairman correct in that statement?

15 A He is correct, yes.

16 I would like to elaborate to this extent.
17 That is that ordinarily when you determine the dollar
18 benefits, you will come out with a cost plus a significant,
19 and value less a significant, and there will be some
20 kind of range in there open for negotiation. It does, in
21 effect, provide a range for negotiation. But you find an
22 evaluation has to include the intangible benefits.

23 BY MR. ZAHLER:

24 Q Now that range within which the party would
25 negotiate, would different results be reached within

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that range, depending on the negotiating capabilities of
the parties?

A Yes.

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1 Q And, in fact, they might reach a result that was
2 outside of the range that you had set, depending on the
3 negotiating capabilities of the parties?

4 A This is possible, yes.

5 Q Would you have any difficulty with the definition
6 of "bargaining strength" as being synonymous with respect
7 to "negotiating capabilities" of the parties as we have just
8 used that term?

9 A No, on the basis that the term "bargaining strength"
10 does not have a specific meaning in the art, which I kind of
11 gathered from our earlier question that it did. With that
12 assumption, it is a good definition.

13 Q With that understanding of "bargaining strength,"
14 would the results that would be reached be different
15 depending on the bargaining strengths of the parties?

16 A Yes.

17 CHAIRMAN RIGLER: What was your definition of
18 "bargaining strength"?

19 THE WITNESS: The ability, different abilities of
20 the parties to reach a bargain, to obtain a bargain

21 MR. SMITH: You used the word "capability," which
22 is different.

23 MR. ZAHLER: The term used was "negotiating
24 capabilities."

25 What factors would influence the negotiating

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1 capabilities of the parties?

2 THE WITNESS: One of the biggest factors would
3 be the ability of the bargaining team they had doing the
4 bargaining. There may be extraneous factors that would
5 influence that that would not necessarily be a part of the
6 particular thing that we are studying.

7 BY MR. ZAHLER:

8 Q What would the factors that you have just referred
9 to be, for example?

10 A I think the Chairman this morning mentioned one
11 when he said do I stay in business or do I go out of
12 business.

13 CHAIRMAN RIGLER: I don't recall saying that, so
14 are you saying that is or is not a constraint?

15 THE WITNESS: That would be one. If it has an
16 unusual effect on his future.

17 CHAIRMAN RIGLER: How about the relative sizes of
18 the two parties?

19 THE WITNESS: I don't think the relative sizes
20 in itself would necessarily add a factor one way or the other.

21 CHAIRMAN RIGLER: How about the degree of access
22 each party already had to different transmission systems?

23 THE WITNESS: Well, this -- it might or might not.
24 I don't know.

25 CHAIRMAN RIGLER: Suppose one system is completely

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1 isolated and surrounded by the party with whom it is in
2 negotiations and the other party, the surrounding party, has
3 possible access, transmission access, to two or three
4 other systems.

5 THE WITNESS: The one that is surrounding cannot
6 build through the other party's territory?

7 CHAIRMAN RIGLER: Right.

8 THE WITNESS: That might be a factor that would
9 change the bargaining position, yes.

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1 BY MR. ZAHLER:

2 Q With respect to determination of your first
3 step, that is whether there are total net benefits from
4 any action that the parties would choose to take, how
5 do you go about determining that?

6 A This is done by a comparison of alternatives,
7 whereby you set up the alternative development programs,
8 first, on an individual basis for the parties concerned,
9 and then on a combined basis.

10 You price out all of the cost factors that
11 you can assign dollar costs to in both cases.

12 And then the difference between those
13 two costs are the benefits.

14 Q What would be the result of that study.

15 What type of recommendations would come out of
16 that study?

17 A That would indicate that the proposal was one that
18 should be pursued further or should be dropped.

19 Q Would the recommendation to pursue the matter
20 further be based on whether there were any significant
21 net benefits or whether there were any benefits?

22 A Whether there were benefits.

23 Q Assuming there were benefits and you pursued
24 it, what would the second step be?

25 MR. LESSY: Who is "you" in that question?

1 MR. ZAHLER: "You" is Mr. Stemmer.

2 THE WITNESS: The second step then is to come
3 up with an allocation of benefits or perhaps a more definitive
4 description would be to come up with an operating
5 arrangement that would provide for the operations that
6 you are contemplating in your interconnection that would
7 distribute the benefits, so that each party would receive
8 a significant benefit to himself to go ahead and get into
9 arrangement.

10 BY MR. ZAHLER:

11 Q I noticed you used the word "significant benefit."
12 Why is it essential that the calculation at this
13 stage mean significant benefit?

14 A To me, significant means something he will base
15 an action on.

16 He is now going into a pool. He has to have
17 something that to him is sufficient to make a decision
18 to go ahead.

19 Q Is that based on the incentive he gets from
20 the significant net benefits?

21 A Or there may be other benefits that are not
22 particularly in the context of that particular arrangement.

23 MR. ZAHLER: I have no further questions.

24 MR. LESSY: No recross.

25 MR. HJELMFELT: I have no questions.

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RECROSS EXAMINATION

BY MR. CHARNO:

Q Mr. Slemmer, would a benefit which a non-generating electric utility might bring to a pool be the addition of load growth which would allow the staggered construction of larger units and the enjoyment of the economies of scale that were attendant to that?

A That could be one of the benefits, yes.

MR. CHARNO: Thank you. I have no further questions.

MR. ZAHLER: I have a further question for Mr. Slemmer.

FURTHER REDIRECT EXAMINATION

BY MR. ZAHLER:

Q Mr. Slemmer, if we had a nongenerating entity, how would that entity be receiving power to supply its customers?

A Nongenerating, it must be buying it.

It would have no other choice.

Q If it was buying it from entities which it was going to pool with, would it contribute load growth to that pool?

A Not if it was already buying it from a member of the pool.

Q If an entity were a wholesale customer of

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1 a pool member and sought admission to the pool, it
2 would contribute no load growth to the pool, would it?

3 MR. LESSY: Asked and answered by the last
4 question.

5 I object.

6 CHAIRMAN RIGLER: Sustained.

7 MR. ZAHLER: I w^d draw the question.

8 No further questions.

9 CHAIRMAN RIGLER: Thank you very much,
10 Mr. Slemmer.

11 (Witness excused.)

12 CHAIRMAN RIGLER: We will get together again
13 at 9:30 Tuesday.

14 Will that be Mr. Firestone?

15 MR. ZAHLER: Yes.

16 CHAIRMAN RIGLER: We have one exhibit moved and not
17 received.

18 That would be Applicants 120.

19 Is there objection?

20 MR. CHARNO: There is objection. It was
21 agreed we would hold it over until Tuesday and argue it
22 at that point between Applicants and the Department.

23 CHAIRMAN RIGLER: Fine.

24 (Whereupon at 3:45 p. m., the hearing was
25 adjourned, to be convened at 9:30 a. m., on
Tuesday, May 11, 1976.)