

NUCLEAR REGULATORY COMMISSION

Regulatory Docket File



IN THE MATTER OF:

TOLEDO EDISON COMPANY and  
CLEVELAND ELECTRIC ILLUMINATING CO.

Docket Nos.

50-346A  
50-500A  
50-501A

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

and

CLEVELAND ELECTRIC ILLUMINATING  
CO., et al.

50-440A  
50-441A

(Perry Nuclear Power Plant, Units 1 & 2)

Place - Silver Spring, Maryland

Date - Tuesday, 23 March 1976

Pages 7047 - 7210

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TOLEDO EDISON COMPANY and	:	50-346A
CLEVELAND ELECTRIC ILLUMINATING CO.	:	50-500A
(Davis-Besse Nuclear Power Station,	:	50-501A
Units 1, 2 and 3)	:	
and	:	
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<u>et al.</u>	:	50-441A
(Perry Nuclear Power Plant,	:	
Units 1 and 2)	:	
-----	:	

First Floor Hearing Room,  
7915 Eastern Avenue,  
Silver Spring, Maryland.  
  
Tuesday, March 23, 1976.

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

BEFORE:

- MR. DOUGLAS RIGLER, Chairman.
- MR. JOHN FRYSIK, Member.
- MR. IVAN SMITH, Member.

APPEARANCES:

(As heretofore noted.)



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P R O C E E D I N G S

2 Whereupon,

3 DR. HAROLD WEIN

4 resumed the stand, and having been previously duly sworn  
5 was further examined and testified as follows:

6 CROSS-EXAMINATION (Continued)

7 BY MR. REYNOLDS:

8 Q Dr. Wein, what is Ohio Edison's share of the  
9 regional power exchange market as you define it?

10 A Well that will vary from time to time --

11 MR. REYNOLDS: Can we start off today with  
12 some understanding that you will talk into the mike or  
13 speak up or something so that we can get it all down without  
14 having to do a lot of repeating?

15 CHAIRMAN RIGLER: Off the record.

16 (Discussion off the record.)

17 CHAIRMAN RIGLER: Will you read back the  
18 witness' answer please.

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

21 THE WITNESS: That also depends upon what one wants  
22 to define. That depends upon how you want to define the  
23 share of such market and if you use kilowatt hours, i.e.  
24 the energy received and delivered to other systems either  
25 within CAPCO or outside.

mm2

1 But there is no necessary stability to those  
2 numbers because inherently it depends upon the situation.  
3 One year a company may, because inherently in say a CAPCO  
4 agreement, where say Toledo Edison has purchased, or has  
5 built a large nuclear plant way beyond its own ability to  
6 utilize all that power, it will then be sending out power to  
7 the other systems.

8 And of course, in other years, the other thing would  
9 happen.

10 So that when you take all the kinds of transactions  
11 within say the CAPCO system, that share is not necessarily  
12 stable and it has really not the same meaning as shares, say,  
13 in wholesale firm power or retail power.

14 Similarly, if you take transactions outside of the  
15 system, say with Ohio Power, it is going to depend again on  
16 what Ohio Power has.

17 And so if you get the idea of the bundled options,  
18 these are the options which are varying all the time,  
19 depending upon circumstances.

20 And so the idea of kilowatt hours as a share for a  
21 particular person is just devoid of sense, given the nature of  
22 the kind of market.

23 Now if you wanted to define share, not in the  
24 sense of kilowatt hours but ability to utilize the network any  
25 time they want for whatever purpose they want, they all have

mn3

1 equal shares. In other words, they all can utilize the  
2 network.

3 Q Well, what is the Applicants' share of the regional  
4 power exchange market?

5 A Well, as I just defined it, they all have 100  
6 percent share of whatever -- of the network.

7 Q So when you say 100 percent, are you talking about the  
8 participation in the network? Is that the unit that you  
9 are using as a measurement of market power in that situation?

10 A In this situation, each applicant can use that  
11 network whenever it requires the need of it, so long as  
12 the network is capable of performing it.

13 Q All right.

14 If a particular small system were able to construct  
15 transmission facilities economically to an alternative supplier  
16 which could provide the types of coordinated transactions  
17 that you place in the regional power exchange market, what  
18 impact if any would that have on your assessment of  
19 Applicants' market power in the regional power exchange market  
20 relative to that small system?

21 Well the assumption is -- let me get it -- they  
22 can construct transmission to some other pool economically,  
23 and the other pool is willing to give them all the sorts of  
24 transactions that are involved in that pool.

25 Q Well, I said another system in another pool.

mm4

1 A Well, another system -- another system might be  
2 able to give them some, but not all.

3 Q Well, let's assume that it can give them all.

4 A Well, if it can give them all and a small system  
5 could, in fact, then get all these, which mean not only all  
6 the operational coordination, but all the developmental  
7 coordination, then of course -- and if it is economical  
8 for the small system to do it -- then, of course the alternative  
9 would be essentially equal, and so their monopoly of their own  
10 network would not have any alternate -- hard to tell, but  
11 would not have the competitive impact where they don't have  
12 that alternative.

13 It is clear that if you had an alternative just  
14 as good and you can get it, then the fact that one system  
15 doesn't give it to them, but the other system can get something  
16 equally good, negates the power in that respect of the monopoly  
17 situation.

18 Q What is the basis for your conclusion that a single  
19 system could not give them all the types of coordination  
20 transaction that the CAPCO companies can give a small system.

21 MR. MELVIN BERGER: Objection.

22 I don't think Dr. Wein said that a small system  
23 couldn't give it. I think it is a mischaracterization of his  
24 testimony.

25 CHAIRMAN RIGLER: I think he did. He can correct

1 that in his answer.

mm5  
2 THE WITNESS: I said -- I asked him whether a  
3 single system could or couldn't. I mean, if a single system  
4 were large enough, suppose it were AEP, that would be one  
5 thing. If it were the Consumers Power Company, that would  
6 be another thing. It just wouldn't get all.

7 BY MR. REYNOLDS:

8 Q Did you make an examination for each small system  
9 in the CAPCO area of the opportunities that small system  
10 or those small systems might have to interconnect with non-  
11 CAPCO suppliers?

12 A Well, I only read one study. I think it was given  
13 by a CEI witness -- I am trying to remember his name, Caruso --  
14 I think it is Caruso or a name like that -- in which he argued  
15 it would be practicable for them to build a network to get  
16 PASNY power.

17 That is all I did. I am in no position to make  
18 studies on whether they could. And I don't think anybody  
19 could unless they actually went out on the ground and surveyed,  
20 got all the prices and estimated land and all that sort of  
21 thing.

22 Q But that study you are talking about was something  
23 you saw after you had submitted your prepared testimony, is  
24 that not correct?

25 A I am not sure whether I saw it after or before.



mm6

1 I don't remember.

2 Q You, yourself, undertook no study though to  
3 ascertain whether or not small systems could interconnect  
4 with non-CAPCO systems, that could provide a small system with  
5 the opportunities of coordination available from CAPCO  
6 members, is that right?

7 MR. MELVIN BERGER: Excuse me, could or would  
8 Mr. Reynolds?

9 BY MR. REYNOLDS:

10 Q Could or would.

11 Did you make any study in that regard, Dr. Wein?

12 A Well I didn't make any study, but I simply made  
13 a simple reflection on the only system of equal size where  
14 they could connect with the AEP. And for many of them, AEP  
15 is rather far away and I don't think that somebody -- but  
16 in any case, I myself made no such study.

17 Q Is Ohio Power part of the AEP system?

18 A Yes.

19 Q Do you know if Ohio Power is presently building an  
20 interconnection to the City of Orrville?

21 A I am just trying to think.

22 There was some flak. I think they are, but I  
23 don't want to take that on my --

24 Q Is the City of Orrville located in what you have  
25 defined as the Ohio Edison service territory?

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1 A I think I would put it there. Yes, it is right  
2 on the fringe.

3 Q And why is it then, Dr. Wein, that in your view  
4 Ohio Power would not be a part of the regional power exchange  
5 market in this particular proceeding, as you define that  
6 market?

7 A I think I have already explained that yesterday.

8 Q Well on the basis of your explanation yesterday,  
9 if I am correct that there is an interconnection that has  
10 either been built or is being built between Ohio Power and  
11 the City of Orrville, how do you explain that Ohio Power is  
12 not one of the systems to be included in the regional power  
13 exchange market?

14 A I have explained that at least three times, and I  
15 don't think I have to go through that again.

16 CHAIRMAN RIGLER: Well you do, subject to an  
17 objection by your counsel or by one of the lawyers. It is  
18 not for you to make that judgment, Dr. Wein.

19 THE WITNESS: All right.

20 MR. MELVIN BERGER: I will object to that.

21 I believe Dr. Wein's written testimony specifically  
22 addresses the question why isn't Ohio Power part of the  
23 regional power exchange market.

24 CHAIRMAN RIGLER: All right. We had a long  
25 colloquy on that. The objection is sustained.

mm8 1 MR. REYNOLDS: My question went directly to -- my  
2 question was addressed to the Ohio Power position in  
3 connection with the interconnection with Orrville.

4 CHAIRMAN RIGLER: Correct.

5 MR. REYNOLDS: Now with that circumstance, Ohio  
6 Power is not included in the regional power exchange market,  
7 and I don't believe that is addressed in his direct  
8 testimony at all.

9 CHAIRMAN RIGLER: It isn't, but he indicated  
10 yesterday twice why he had excluded Ohio Power.

11 Now your question is in the nature of argument,  
12 it goes to attacking the validity of his conclusion. He  
13 indicated that that was his conclusion, he indicated that  
14 again this morning that he is going to stand on that testimony  
15 for the reasons stated.

16 Now do you feel that the Orrville situation  
17 undercuts that testimony?

18 You have that argument, but there is no use taking  
19 it back to the same grounds again. We are not here to argue  
20 with the witness. And where he has made exactly clear what  
21 his position is, it is pointless to ask him the same  
22 question time after time.

23 MR. REYNOLDS: Well let me ask him this question,  
24 then.

25

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1 BY MR. REYNOLDS:

2 Q As I understand it, Dr. Wein, you did not take  
3 into consideration in the planning of your regional power  
4 exchange market, the fact that there is an interconnection  
5 being built between Ohio Power and the City of Orrville.

6 Is that correct?

7 A No, it is not correct, because the logic of not  
8 including Consumers Power and the logic of not including  
9 any other system far greater than the City of Orrville, like  
10 PJM, go to the City of Orrville. And there is no point in  
11 worrying about the City of Orrville when there is an  
12 interconnection between Ohio Power and the City of Orrville.

13 Ohio Power is not in the CAPCO regional exchange  
14 market.

15 Q Let me ask you this, Dr. Wein.

16 Suppose it were economically feasible for  
17 Painesville to interconnect and coordinate with MELP. Would  
18 that eliminate any market power possessed by the Applicant  
19 relative to Painesville insofar as the regional power exchange  
20 market is concerned?

21 A As Painesville and MELP now exist, today?

22 Q That is right.

23 A I think it would be negligible elimination of  
24 market power.

25 Q How would you determine how much market power

mm10 1 remains?

2 A Well, I will give you the ingredients of  
3 determination.

4 Your question is in the form which indicates there  
5 might be a number, and that is obviously not the nature of it.

6 Painesville is very small, MELP is very small.  
7 They both, can't as of today have access to nuclear units.  
8 All they can do is interconnect with each other and that may  
9 give them some possible -- some possible help in emergencies.  
10 They could get nothing which is involved in either access to  
11 large plants, they cannot get involved into all -- they  
12 cannot get access to all the other elements involved in  
13 operational coordination of pools such as CAPCO gives them.

14 And so to the extent that they might be somewhat  
15 better off in emergency situations with each other, that would  
16 be a help. But that is a very small thing in terms of the  
17 ability for them to compete with any of the CAPCO companies in  
18 this case.

19 Q What is the basis, Dr. Wein, for your statement  
20 that today neither Painesville nor MELP can have access to  
21 nuclear generation?

22 A So far as I am aware they do not have access to  
23 nuclear generation.

24 I understand that you have proposed -- well you  
25 have proposed something from MELP and you have proposed

mmll 1 something for Painesville, and I am not sure whether  
2 Painesville has signed that or not.

3 My recollection is that they may well have.  
4 But there is a contract which seems to me quite different.  
5 It doesn't include in that that Painesville and MELP would  
6 have access with each other via CEI. It simply gives  
7 Painesville a limited amount of nuclear power and is  
8 somewhat similar to your Proposal -- I think 44, is it?  
9 Is it 44, is that the number, the proposal which has been  
10 in this proceeding and each of us have commented about?

11 As I understand that, Painesville is even a little  
12 more restricted than that.

13 Q Have you read the contract that you are referring  
14 to?

15 A I think I may have come across it in some of the  
16 other witnesses' -- or their comments.

17 I finished my answer.

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I have finished my answer.

2 Q All right.

3 Do I understand your testimony correctly to be  
4 that market power in the regional power exchange market arose  
5 out of the ability to deny options to particular small systems?

6 A It grows out of the ability to deny options to  
7 small systems. It grows out of the inherent size and con-  
8 trol they have of already existing markets. It grows out of  
9 lots of things.

10 Q Let me ask you this:

11 If the option that was denied was an unreasonable  
12 option would that constitute an exercise in market power  
13 in your view?

14 MR. MELVIN BERGER: Unreasonable on what terms,  
15 according to whom?

16 BY MR. REYNOLDS:

17 Q On economic terms?

18 A Yes, in the context of this industry I think so.  
19 It's an exercise of market power.

20 Q Okay.

21 I presume that the City of Cleveland might like  
22 to have as one option free firm power. Now if that option  
23 were denied the City of Cleveland by CEI, in your view  
24 that would be an exercise of market power?

25 A Did you say free?

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1 Q That's right.

2 A No, I don't think I would go that far.

3 Q Well, where would you draw the line?

4 A Draw the line between what, free and not free?

5 Q Well, what you have indicated would be a reason-  
6 able option -- denial of an unreasonable option that you  
7 feel would constitute an exercise in market power as dis-  
8 tinguished from the denial of an unreasonable option that  
9 you feel would not be an exercise of market power.

10 A I'd use the concept of plane of equality within  
11 that particular market configuration. Where that term was  
12 given very precise meaning by the court was in the St. Louis  
13 Railway Terminal case. It would seem to me that would be  
14 the way to draw the line.

15 Q What was the definition of "plane of equality"  
16 in that case?

17 A Essentially based on costs.

18 Q And what is the definition as you understand it?

19 A I just told you.

20 Q All you said is it's based on cost.

21 A The court said that when any competing railroad  
22 runs across the river and gets into and uses the facilities  
23 of the St. Louis Railway Terminal Company what goes on there  
24 is the cost of his entering into that, and these costs are  
25 to be considered on the same basis as costs are constituted



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1 and calculated for all the other members. It has nothing to  
2 do with the value of the service. It has to do with the  
3 costs of each of the members and a new member gets the same  
4 treatment and the same cost formulae that exist.

5 That's my understanding of the case. That's what  
6 I mean, that the plane of equality means the costs which  
7 are involved in a company joining a particular system. He  
8 pays whatever costs he has; he pays it on whatever the  
9 formulae are in exercising these costs or in computing these  
10 costs.

11 Q So if the City of Cleveland were to participate  
12 in a nuclear facility on the same costs, the same costs as  
13 each of the Applicants, that would be an indication of plane  
14 of equality. Is that correct?

15 A You seem to persist in misunderstanding me. Maybe  
16 it's my fault and not yours.

17 I didn't say the same costs. I said the same  
18 method of calculating the costs. The same method may not  
19 yield the same costs.

20 Q Can you give me an example of when the same method  
21 would yield different costs?

22 A Sure.

23 It may well be that if the City of Cleveland  
24 joins the system an additional cost would have to be imposed  
25 on the system, which is different than the costs which the

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1 others impose on the system so there the formula would be  
2 additional costs, additional costs for each one.

3 Well, additional costs for one might be different  
4 than additional costs for another which might be different  
5 than the additional costs for the third, but the formula  
6 of the additional costs that you impose is the same but the  
7 numbers could be different.

8 Q If a small system had nothing to offer in, let's  
9 say, a staggered construction arrangement, would you conclude  
10 that the refusal to provide that option to the small system  
11 would constitute an exercise of market power?

12 MR. MELVIN BERGER: What option, Mr. Reynolds?  
13 You said "that option." I'm not sure what you're referring  
14 to.

15 BY MR. REYNOLDS:

16 Q The option to participate in a staggered con-  
17 struction arrangement.

18 A Well, the hypothetical you give me is contra-  
19 dictory unless the small system were zero. If it were more  
20 than zero it has something to offer.

21 Q But you're saying that if the small system had  
22 nothing to offer in the way of staggered construction then  
23 you would not consider that to be an exercise of market  
24 power if you refuse that option to a small system?

25 A I'm not going to say that because you obviously

eb5 1 have a different meaning of "staggered construction" than  
2 I do when you say they have nothing to offer.

3 Q Well, what's your definition of staggered con-  
4 struction?

5 A Staggered construction simply means this, that I  
6 would build a 1,000-megawatt plant but I can't build a  
7 1,000-megawatt plant; I can't build it for ten years, but if  
8 I add four other people there then I and the four can build  
9 it. Therefore, you may build it or I may build it. That's  
10 not the importance that I attach, that a particular company  
11 has to build it.

12 The importance is that they pool the loads in  
13 order to be able to get the particular size unit which if  
14 they didn't pool the loads they would not be able to get for  
15 some time in the future. When it comes to actually building  
16 it, it's a construction company who builds it, it's General  
17 Electric who provides the other things. All the utility  
18 company does is pay the money, by and large.

19 So it isn't the question of who builds it and  
20 who says that "I'm going to build it this year and ten years  
21 later you build it." The essence of staggered construction  
22 is the sharing of a unit and taking advantage of it at a  
23 time period sooner than you would have been if you were not  
24 to share it.

25 That's essentially the essence of that notion.

eb6

1 Therefore, a small company, if it shares in it, is in fact  
2 engaging in staggered construction.

3 Q And what in your view would a three-megawatt  
4 system have to offer to a staggered construction program  
5 even as you define it?

6 A Three megawatts, and if its growth is going to  
7 be at the rate of eight percent a year in eight years or  
8 nine years it will have six megawatts. And if the small  
9 system were to combine with many other small systems they  
10 might add 200 megawatts.

11 Q And as you understand staggered construction or  
12 as you have described it, am I correct in concluding that  
13 you believe the utility does nothing more than provide the  
14 financing for the construction program?

15 A Oh, I wouldn't go that far, that it does nothing  
16 more, no. It may provide the selection of the site. It  
17 may provide certain criteria and things of that nature. It  
18 may do some supervision. But in any case I simply used  
19 that example to point out to you that the economic essence  
20 of staggered construction does not go to the actual physical  
21 details of the construction; it goes to the sharing of the  
22 unit.

23 It doesn't matter whether a company ever builds  
24 one, as it were, itself, in its own territory. And if you  
25 look at the forward thinking in the area when they're

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1 thinking of putting many units in an industrial park, many  
2 nuclear units, and of larger size than we have now, it  
3 may well be that one group might build them all.

4 Q Dr. Wein, are you at all aware of what the NRC  
5 requirements are for construction responsibility of nuclear  
6 facilities?

7 A Just in a vague way.

8 Q Are you aware of the financial responsibility  
9 requirements that are associated with the construction of  
10 nuclear facilities before the NRC?

11 A Before the NRC?

12 Q Yes.

13 A No. I assume somebody has got to pay for it some  
14 time. I'm aware though that a lot of --

15 Q Am I --

16 A Go ahead.

17 Q Am I correct that one of your assertions in your  
18 testimony is that large fossil-fired units are more effi-  
19 cient than smaller units, smaller fossil units?

20 A Will you show me where I said that?

21 Q Well, do you have any recollection that you did  
22 not say-- Would you dispute that? Would you quarrel with  
23 that?

24 A No, I --

25 CHAIRMAN RIGLER: Show it to him.

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MR. REYNOLDS: What was that?

CHAIRMAN RIGLER: Show it to him.

MR. REYNOLDS: I was just trying to see the extent to which he could remember his own testimony.

BY MR. REYNOLDS:

Q Pages 49 and 50.

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1 I guess it's down at the bottom of page 49.

2 A Well, I said according to the 1970 national  
3 power survey:

4 "Economies of scale are inherently  
5 more pronounced with nuclear generating units  
6 than with conventional fossil fired units."

7 Now, where does that imply what you said?

8 Q Well, if you look up above that --

9 A Look up above where?

10 Q I'm sorry, you said --

11 A You said at the bottom of page 49.

12 Q That's where you're reading from?

13 A Yes.

14 Q Well, look at the answer to 32, starting at  
15 near the top of the page. What I was asking was whether --

16 A There's nothing in there which implies what you  
17 said. That's a discussion of economies of scale.

18 Q Would you agree or disagree with the statement  
19 that large fossil fired units are more efficient than  
20 small fossil fired units?

21 A I wouldn't disagree with that.

22 Q Thank you.

23 A You asked me a different question. I thought  
24 you --

25 CHAIRMAN RIGLER: All right, let's not argue

mpb2

1 back and forth. Just concentrate on the question.

2 BY MR. REYNOLDS:

3 Q And the large fossil fuel unit would be a  
4 lower cost source of power, is that correct?

5 A Than a small fossil fired unit, is that what  
6 you mean?

7 MR. MELVIN BERGER: Lower cost than what?

8 BY MR. REYNOLDS:

9 Q That's right.

10 A I think all of the conditions equal the large  
11 one would be more efficient or lower cost than a small  
12 one.

13 Q All right.

14 Let me ask you, Dr. Wein, would it be your  
15 opinion that a refusal by an owner of a 600 megawatt  
16 coal fired plant to grant access to a smaller system not  
17 capable of enjoying economies of scale available in such  
18 a unit would be inconsistent with the antitrust laws?

19 A It depends on the circumstances.

20 MR. MELVIN BERGER: I think it's calling for a  
21 legal conclusion. I objectio-- as it whether it is  
22 inconsistent with the antitrust laws.

23 CHAIRMAN RIGLER: Overruled.

24 THE WITNESS: It depends on the circumstances.

25 BY MR. REYNOLDS:



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1 Q Let's assume that it were -- let's assume that  
2 the 600 coal fired plant was a CAPCO unit and that the  
3 small system was the city of Cleveland.

4 A That's not enough of the circumstances to  
5 enable me to draw a conclusion one way or the other.

6 Q What other circumstances would you need in  
7 order to assess whether or not a refusal of access to the  
8 coal fired unit was inconsistent with the antitrust laws?

9 A Well, I think I would need the circumstances  
10 which would let me determine whether or not there was  
11 a Sherman violation, a Sherman Act violation, either  
12 section 1 or section 2.

13 CHAIRMAN RIGLER: This begs the question, doesn't  
14 it?

15 THE WITNESS: Well, I don't understand the  
16 question.

17 Do you want me to enumerate the kinds of  
18 circumstances required in a Sherman violation? Would I  
19 be responsive then?

20 BY MR. REYNOLDS:

21 Q Let's take the circumstances as you know them  
22 as they are in this particular case right now.

23 A I think in this particular case now I might  
24 conclude that CEI was violating the Sherman Act. I  
25 understand that there is a case before the District Court

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in Cleveland where the city is alleging that.

Q I'm talking now about whether or not refusal to grant the city of Cleveland access to a 600 megawatt coal fired plant, given all the circumstances in this case, whether you would view that particular refusal as being inconsistent with the antitrust laws.

MR. MELVIN BERGER: I'll object again on the basis of calling for a legal conclusion.

CHAIRMAN RIGLER: He is an expert antitrust economist, a former economist with the Department of Justice working with the antitrust division. He is certainly qualified to answer.

Overruled.

THE WITNESS: Yes. Let me, then, try to ---

CHAIRMAN RIGLER: He can give his opinion as to whether or not an inconsistent situation would exist.

THE WITNESS: I can envision circumstances in this industry or in the Cleveland or CEI territory in which I think I can come to that conclusion.

CHAIRMAN RIGLER: Mr. Reynolds is hypothesizing the exact circumstances of the case, the situation in the area which you studied in connection with your expert testimony. As you know, it has been alleged that one of the acts that may violate the antitrust laws is a refusal to grant access to nuclear plants. Now, he's saying

mpb5

1 substitute a coal fired plant. Does your conclusion  
2 change?

3 THE WITNESS: Well, as I understand 105C it  
4 doesn't go to necessarily violating, it goes to the question  
5 of inconsistency with.

6 CHAIRMAN RIGLER: All right, that's his question.

7 THE WITNESS: Yes, I think I might argue that,  
8 yes. Under these circumstances I think I might argue  
9 with no other alternatives equally good if there were  
10 no other ways by which they could get the economies of  
11 scale, if this 600 megawatt fuel plant were the way, there  
12 were no other ways, yes, it would be the case. I think  
13 I could draw that conclusion.

14 By given the circumstances of this case I  
15 mean to include all the testimony that has been excluded  
16 from the circumstances of this case.

17 BY MR. REYNOLDS:

18 Q Am I then to assume that your answer, Dr. Weira,  
19 is no, given the circumstances of this case but if you  
20 could assume some other circumstances you might conclude  
21 yes?

22 A I don't think that was my answer.

23 Q Well, I thought you answered me yes you might  
24 conclude that if I could assume, and then you went on to  
25 state certain assumptions. Are you saying that the certain

mpb6

1 assumptions that you have plugged in are those that  
2 exist in your view in the present situation, or are those  
3 additional assumptions?

4 A I thought my answer said that I would if the  
5 600 megawatt coal plant were the only one. Now, the  
6 circumstances of this case of course are not -- they're  
7 not the only one. There are nuclear plants, so the  
8 refusal of a 600 coal fired plant but not the refusal of  
9 access to a nuclear plant, I would not conclude anything  
10 about that.

11 Q So am I correct that we're really talking about  
12 access to economies of scale and not access to nuclear?

13 A Well, now, when you say "we are really talking"  
14 I don't know what the question is. You first asked me  
15 about a 600 megawatt fuel -- fossil fuel plant and I said  
16 if that were the only one that were available, there wasn't  
17 anything else, given what I know about this case including  
18 all that, yes, I could conclude it.

19 Now, what is it that you are asking me?

20 CHAIRMAN RIGLER: Let me ask you a question at  
21 this point.

22 Does your analysis change depending upon  
23 whether the large plant as to which the smaller system is  
24 seeking access is a nuclear plant or a large fossil fired  
25 plant?

mpb7

1 THE WITNESS: No. The essential economic  
2 analysis in this case is not determinant upon whether it  
3 is nuclear or fossil fuel with one assumption and with  
4 one caveat and that is that is apparently is the opinion  
5 of people in the CAPCO territory, i.e., those who are  
6 building the nuclears that the nuclears are more economical  
7 than the fossil fuels and if you make that assumption then  
8 a fossil fuel would not give you the same access to  
9 economies as a nuclear.

10 Now, if you assume they are both equal then it  
11 would make no difference.

12 BY MR. REYNOLDS:

13 Q Do you know whether the Mansfield plants are  
14 nuclear or coal fired plants?

15 A They are coal.

16 MR. SMITH: Going back to the fossil fuel  
17 compared to the nuclear you still have the same proportions  
18 of economies between the Applicants and Cleveland. The  
19 problem here, as I see it, when you're measuring a  
20 competitive situation is not the absolute cost involved  
21 but the relationship between the cost of one competitor  
22 to another competitor. Wouldn't the same proportion  
23 prevail whether it be fossil or nuclear in the hypothesis  
24 given you?

25 THE WITNESS: No, I don't think so, Mr. Smith,

mpb8

1 because if you look at the construction programs for the  
2 future the proportion of nuclear is going to become greater  
3 than coal.

4 MR. SMITH: That's true but in the hypothesis  
5 given you CEI is going fossil and not nuclear, so they  
6 would --

7 THE WITNESS: Well, if the CAPCO Pool were  
8 going fossil and not nuclear it would make no difference  
9 if that were the case, but that does not seem to be the  
10 case.

11 BY MR. REYNOLDS:

12 Q Let me just follow up Mr. Smith's question.

13 As to each unit or each plant the proportion  
14 would be the same for the Applicants -- as between the  
15 Applicants and the small system?

16 A I see. Let me see if I understand that.

17 In other words, if I am going to build a 1000  
18 megawatt coal plant and then I'm going to build a 1200 MW  
19 nuclear plant I would give you the same proportion that I  
20 have of coal to nuclear in your<sup>4</sup> proportion access to that.  
21 In that case you get the same thing.

22 I think maybe that is perhaps what Mr. Smith  
23 meant.

24 Q No.

25 A No?

mpb9

1 Q No, I'm saying if you're going to build a -- if  
2 you're going to talk in terms of participation in a coal  
3 plant the proportion is going to be -- the proportionate  
4 advantage with respect to the coal is going to be the  
5 same for the Applicants and the small system. Equally so  
6 if I then talk about a nuclear plant and I talk about  
7 another coal plant. As to each isolated unit, in other  
8 words, the proportion would be the same.

9 A When you say the proportion --

10 Q The proportionate advantage.

11 A I still don't know what the proportionate  
12 advantage means here. I could understand it if you said  
13 that the Applicants are taking 90 percent of the coal  
14 plant and the munies take 10 percent. The Applicants  
15 are taking 80 percent of the nuclear plant and the munies  
16 then can have a proportionate figure, is that what you're  
17 saying?

18 MR. SMITH: No. In evaluating a competitive  
19 situation you're not concerned solely with absolute costs  
20 and prices but you're concerned with relative costs and  
21 prices.

22 For example, take a price squeeze situation,  
23 take an example and double it. Do your competitive  
24 relationships change?

25 THE WITNESS: All other things equal, no.

mpb 10

1 MR. SMITH: Well, wouldn't the same thing be  
2 true in relation to access to a fossil fuel plant and a  
3 nuclear fuel plant?

4 THE WITNESS: It would depend upon the weighting  
5 and the absolute amount of the cost advantage. It depends  
6 on the weighting.

7 Look, suppose a nuclear plant were 10 percent  
8 more efficient than a coal plant and one of the Applicants  
9 says that, Well, I want to have my -- I want this share,  
10 so that 85 percent of my costs are taken from the nuclear  
11 plant which is more efficient. Obviously he is going to  
12 have a greater cost advantage than some other thing and  
13 essentially, if I understand the question, he gains  
14 access but he gains access in such a way so that when  
15 you put in the absolute amounts that he has of each of  
16 these different efficiency plants and weight it for each  
17 the sum of the costs will come out equal. That's essentially,  
18 I take it, what you're asking me and now to go to the  
19 question as to whether they have a relative cost advantage  
20 or not, they could if the weighting were different.

21 I'm not sure that I am understanding the question  
22 or not.

23 MR. SMITH: I think so.

24 But I think the question assumes that the  
25 benefits of economies of scale are apportioned proportionately



mpb 11

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I would assume.

He's merely trying to find the difference between the concept of economies of scale in fossil and nuclear. He's trying to show the nexus in this, is that what your point is, Mr. Reynolds?

MR. REYNOLDS: Yes.

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1 BY MR. REYNOLDS:

2 Q Have you, Dr. Wein, made any studies as to how the  
3 cost of an 800-megawatt coal-fired plant compares to the cost  
4 of an 800-megawatt nuclear plant?

5 A No, I have made no studies.

6 (Pause.)

7 I'm still not sure that I answered his question.

8 Q Dr. Wein, let me ask you to turn to page 102  
9 of your testimony. There you use the term "operating  
10 coordination."

11 Will you explain to me what that term means?

12 A It embraces a variety of meanings.

13 The members of a pool, depending upon-- I'm not  
14 reading.

15 Q Well, I was just looking at what you were referring  
16 to. I gather you're now referring to Department Exhibit 588.

17 A That's the number.

18 Q All right.

19 A The members of a pool make arrangements with each  
20 other to engage in certain kinds of power transactions of  
21 the sort which I characterized as being in a power exchange  
22 market. For example, they may, if they are a very weak  
23 pool where there is not a great deal of coordination, they  
24 may be very limited such as, for example, in reserve sharing.  
25 That might be a form of operating coordination which they

eb2

1 may engage in.

2 They may engage in provision for each other of  
3 emergency power or maintenance power. If they do nothing  
4 more than that then they would be a fairly loose sort of  
5 pool in which the CEI authors of this Justice exhibit  
6 entitled "Power Pool Rates," they call that sort of thing a  
7 link pool.

8 The degree of --

9 CHAIRMAN RISLER: He's asking you to define  
10 "operating coordination," what are the elements of that.

11 THE WITNESS: I'm trying to say the elements of  
12 operating coordination will vary from pool to pool. In the  
13 weakest form it may be limited to such things as reserve  
14 sharing, emergency exchange, maintenance exchange.

15 In the stronger pools it may go to -- such as the  
16 team pool it may include all these elements but in addition  
17 it would include, for example, operating the system as a  
18 single integrated system in which case, for example, you  
19 would have economic dispatch and what that would mean is  
20 they would so attempt to operate the pool that the lambdas  
21 would be equal for every generating unit on the line.

22 So the operating coordination then is simply a  
23 sort of a spectrum of things depending upon the nature of  
24 the pool and its ultimate purpose is to operate in the  
25 strongest pools such as team pools or corporate pools, to

eb3

1 operate the system so that all the kinds of power trans-  
2 actions that one can engage in that will give you economy  
3 will be taken advantage of such as, for example, economic  
4 dispatch which simply means if I'm getting power on the  
5 system from a unit that has an incremental cost of ten kilo-  
6 watts and there's another unit on the system which has an  
7 incremental cost of five kilowatts and it's not operating,  
8 shut off the ten kilowatts, even if it is owned by Toledo  
9 Edison, push it down and bring on the five kilowatts.

10 And then essentially then that would be a very  
11 integrated operation because you're always at the most effi-  
12 cient point. So that operating coordination would be the  
13 attempt to gain all these forms of power coordination as  
14 you are operating the system day to day.

15 BY MR. REYNOLDS:

16 Q How many pool agreements have you looked at,  
17 Dr. Wein, or examined?

18 A I've not examined the details of any pool agree-  
19 ment. That was Mr. Kampmeier's job. I've read a lot of  
20 stuff about pools.

21 Q What's the basis for your assertion that all  
22 pools have reserve sharing agreements?

23 A If a pool didn't have a reserve sharing arrange-  
24 ment I don't know what it would have. I think if it didn't  
25 have that it wouldn't be called a pool.

eb4

1 Q Well, what is the basis for your saying that they  
2 all have reserve sharing arrangements? Is it just what you  
3 stated? Is that the extent of your --

4 A Well, I have read this document. I have read  
5 the EEI. I have read the Power Pool.

6 One of the basic things you get out of a pool,  
7 one of the big basic economies you get out of a pool is  
8 reserve sharing. If you don't have that it would hardly  
9 deserve the name of a pool. There's no literature I've ever  
10 read about a pool that indicates you can have a pool without  
11 reserve sharing of some sort.

12 Q Let me ask you this:

13 Is any agreement which specifies that the parties  
14 to an agreement will provide capacity in the event of an  
15 emergency on another party's system a reserve sharing agree-  
16 ment as you understand reserve sharing?

17 A No, it would be in addition to a reserve sharing  
18 agreement.

19 Q What do link pools do with regard to development  
20 coordination?

21 A Well, apparently they vary. I'll give you what the  
22 CEI people say they do.

23 "Link pools are those that provide  
24 primarily for multiple interconnections with only  
25 modest construction coordination."

ab5

1 Q Is that the sole source of your information for  
2 your testimony in this regard?

3 A These people are the only ones I know of who use  
4 these terms, where it has been written down so you can see  
5 what it means. That's their definition. I'll adopt it.

6 Q Let me ask you, Dr. Wein, is there in your view  
7 no difference among link pools and the extent to which the  
8 individual members of a holding company pool are treated  
9 as a single system in development coordination?

10 A Say that again.

11 (Whereupon, the Reporter read from the record  
12 as requested.)

13 THE WITNESS: I don't understand that question.  
14 A link pool is not a corporate pool.

15 BY MR. REYNOLDS:

16 Q What is your understanding of the difference  
17 between the extent to which link pools engage in coordinated  
18 development and the extent to which corporate pools engage  
19 in coordinated development?

20 A Corporate pools engage in a great deal more  
21 coordinated development than link pools. The link pools, as  
22 the definition says, have only modest construction coordina-  
23 tion. The corporate pools have great coordination of con-  
24 struction.

25 Q Can you tell me which team pools engage in

.06

1 development cooperation as completely and extensively as  
2 corporate pools?

3 MR. MELVIN BERGER: I think I'm going to object.  
4 I think Mr. Reynolds is getting into some fairly detailed  
5 engineering areas and I don't believe that this witness is  
6 qualified as an engineer, although I do realize he included  
7 some material of CEI publication in his testimony.

8 MR. REYNOLDS: Mr. Chairman, I'm getting into  
9 material that Dr. Wein has seen fit to set forth in his  
10 direct testimony and I'm trying to determine the extent to  
11 which there is any basis for his statements or if he has  
12 any knowledge of the testimony that he set forth and presented  
13 to this Board.

14 CHAIRMAN RIGLER: The objection is overruled.

15 THE WITNESS: Yes. Well, I think the CAPCO Pool,  
16 as I understand from reading some of the material and also  
17 from their own advertisements --

18 BY MR. REYNOLDS:

19 Q I can't hear you, Dr. Wein.

20 A I said the CAPCO Pool, as I understand from  
21 reading some of the testimony and some of their own adver-  
22 tisements as to what they allegedly do, has as close a  
23 coordination of construction as a corporate pool.

24 Q Did you read any of the CAPCO agreements in addi-  
25 tion to the testimony and the advertisements you alluded to

eb7 1 in forming that opinion?

2 A I read drafts of some but it seems to me that it  
3 is a fact that they have coordinated as they've answered,  
4 all of them, in the Attorney General's Report. You go to  
5 each question as to what they're going to build and what  
6 their proportion is going to be and what their loads are  
7 going to be, and they've got that all the way out until 1983  
8 or '84. And I can't envision a corporate pool doing anything  
9 other than that. You can't do more than that.

10 Even in corporate pools each of the entities in  
11 the corporate pool have relative discretion as to some  
12 smaller items but not to large, backbone transmission lines  
13 or large generating plants or large hydro developments or  
14 large pumped storage developments.

15 But a corporate pool, just as CAPCO, if it needs  
16 to build a 12-kilovolt line, is going to have discretion  
17 to its independent members. But when it comes to the major  
18 things CAPCO seems to me by their answers to do as much as  
19 it is possible to do.

20 MR. SMITH: Dr. Wein, do corporate pools neces-  
21 sarily coordinate among contiguous systems?

22 THE WITNESS: Well, I'm taking a corporate pool  
23 in the sense of a contiguous system, yes, because if it were  
24 a corporate pool but they were not contiguous they could  
25 not engage quite in the same way.



eb3

1 BY MR. REYNOLDS:

2 Q Dr. Wein, what is the basis for your assertion that  
3 Duquesne can buy economy energy directly from Consumers Power  
4 by linking with Toledo Edison's interconnection with Consumers  
5 Power as you state on 105 of your testimony?

6 A Well, that sentence should be taken to read if  
7 they have the interconnection with Consumers Power they can  
8 buy anything that Consumers Power has available which they  
9 need. It might be economy energy, it might not be.

10 Q Do they have an interconnection with Consumers  
11 Power?

12 A I didn't say Duquesne has. I said Toledo has,  
13 and therefore Duquesne, having an interconnection with the  
14 CAPCO Pool, can buy anything from Consumers Power that  
15 Consumers Power is willing to sell them and they're willing to  
16 buy. They have the connection.

17 Q And what's the basis for that conclusion?

18 A That they have the connection?

19 Q That Duquesne can buy anything from Consumers Power  
20 that Consumers Power may have because Toledo Edison may have  
21 an interconnection with them?

22 A I didn't say that. I said Duquesne can buy any-  
23 thing that Consumers Power has that Duquesne is willing to  
24 buy. There are lots of things Consumers Power has that  
25 Duquesne won't buy, but there are some things that Consumers

eb8

1 Power has which Duquesne can't get within the pool that they  
2 would buy.

3 And the basis of the fact is that if you look up  
4 Duquesne's form you will see that Duquesne has in fact bought  
5 stuff from Consumers Power.

6 I don't know whether you're denying that Duquesne  
7 can use the CAPCO Pool and that Toledo Edison has an inter-  
8 connection with Consumers. That's obviously not true if you  
9 deny it.

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1Dmml 1 Q Do you know if Duquesne has ever purchased economy  
2 power from Consumers?

3 A I just explained to you that economy power is used  
4 as an example. I can't get from the form EPCs whether it  
5 is economy power or anything else. All I know is it is  
6 non-firm power. It could be anything that is classified as  
7 non-firm.

8 Q So you just plugged in economy power off the top  
9 of your head in that statement, is that right?

10 MR. MELVIN BERGER: Objection.

11 I think that has been asked and answered.

12 CHAIRMAN RIGLER: Sustained.

13 BY MR. REYNOLDS:

14 Q Do you know if Ohio Edison can purchase economy  
15 energy directly from Consumers?

16 A Ohio Edison, just like Duquesne, can purchase  
17 anything from Consumers, which Consumers is willing to sell  
18 and Ohio Edison wishes to buy because they have the trans-  
19 mission service available to them via Toledo Edison.

20 CHAIRMAN RIGLER: Now, is that as part of the  
21 CAPCO arrangement, or is that the independent arrangement?

22 THE WITNESS: That is part of the CAPCO arrangement.

23 CHAIRMAN RIGLER: So by reference to CAPCO contract  
24 provisions, Ohio Edison or Duquesne can require Toledo Edison  
25 to wheel them power from Consumers?

mm2

1 THE WITNESS: That is my understanding. If it  
2 does not deteriorate the system, and there are no other  
3 reliability problems involved.

4 BY MR. REYNOLDS:

5 Q Then you determine that by reading the contracts?

6 A It is my understanding.

7 Q And what do you base that understanding on?

8 A It is based on discussions.

9 Q Discussions with whom, Dr. Wein?

10 A I think I have had numerous discussions with  
11 Mr. Mayben and some with Mr. Kaspmeier. Primarily Mayben,  
12 I believe.

13 Q And it is your testimony that Mr. Mayben has told  
14 you this?

15 A It is my recollection that they can do that.

16 Q And he told you that they can do it on the basis  
17 of the CAPCO contracts?

18 A Well I am not sure whether he said they can do  
19 it on the basis of the CAPCO contracts. I am not sure that  
20 the CAPCO contracts are completely finished or written.

21 Q Well I thought you just answered the Chairman  
22 that your understanding was that it was a result of the  
23 provisions of the CAPCO contracts rather than any bilateral  
24 agreements which permitted this kind of transaction.

25 A Well I am not sure, I may have misspoke. They

mm3 1 have the capability and they have engaged, as I see through  
2 the Form 1s, for years in all these sorts of transactions.  
3 I see no evidence to indicate that this would not continue.

4 They have engaged in them, they do engage in them,  
5 and they doubtlessly will continue to.

6 Q Does the '73 Form 1 indicate such transactions?

7 A Yes, it indicates transactions with many people  
8 outside the CAPCO system.

9 Q Does it indicate it with Consumers and Duquesne?

10 A In one year there was.

11 Now if I wanted to look back over a period of  
12 eight or nine years I can tell you what has happened. They  
13 don't have to be every year with the two same companies. It  
14 depends on the needs and the availabilities.

15 Q And which FPC form would I look through to find that,  
16 Dr. Wein?

17 A I think you would look to the Form 12s.

18 Q For which year?

19 A Every year.

20 I will read you one from --

21 Q Let me --

22 A Just a minute. You asked me which year now, and I  
23 am going to tell you. I am reading one from 1973.

24 Q All right.

25 A Private systems. This is the Cleveland Electric

mm4

1 Illuminating Company, year ended December 31, 1973.

2 It has received 1,225,000,000 kwh from Ohio Power  
3 Company.

4 It has received 554,000,000 from PJM.

5 Q Do you know whether CEI has direct interconnections  
6 with Ohio Power Company?

7 A Just a minute.

8 Q Or PJM?

9 A It doesn't have direct connections with PJM.

10 Now let me go on. I just gave you the CEI. I  
11 will go to something else.

12 Q Have you ever read the contract between CEI and  
13 Ohio Power?

14 MR. MELVIN BERGER: I object.

15 I think Dr. Wein is still in the middle of an  
16 answer.

17 CHAIRMAN RIGLER: Save the question.

18 (Pause.)

19 BY MR. REYNOLDS:

20 Q Are we still waiting to --

21 A Yes.

22 You know you take plenty of time. Just let me  
23 take some time.

24 (Pause.)

25 Let me read the following from --

mm5

1 Q Could you tell us where you are reading from,  
2 Dr. Wein?

3 A Yes.

4 I am reading from Exhibit HMM-8J2. That is  
5 Moses and it is Form 12 for Duquesne.

6 Q Whose Form 12?

7 A Duquesne.

8 Q I see.

9 A "Respondant" -- Duquesne -- "The Cleveland  
10 Electric Illuminating Company, Ohio Edison Company,  
11 Pennsylvania Power Company and the Toledo  
12 Edison Company are parties to the CAPCO  
13 transmission facilities agreement dated  
14 as of September 14, 1967, which provides for  
15 construction, operation and maintenance of  
16 an adequate transmission network to permit the  
17 five companies that are parties to the agreement  
18 to utilize their respective capacity  
19 entitlements in various jointly committed generating  
20 units for effective coordination of the operation  
21 of the CAPCO companies among themselves and with  
22 other systems, power pools and coordination groups  
23 and for the equitable sharing by the parties of the  
24 resulting benefits and responsibilities."

25 It seems to me that language says they do it not

nm6 1 only with themselves, but with other groups, and that is filed.

2 "The CAPCO transmission facility agreement  
3 was accepted for filing with the Federal Power  
4 Commission on September 7, 1972."

5 I don't want to burden this hearing with reading  
6 out a lot of statistics which shows that there are varying  
7 power flows back and forth over the years.

8 Q Have you read the agreement between CEI and  
9 Ohio Power, the interconnection agreement?

10 A I haven't read that.

11 This is the sort of stuff I have read.

12 Q Have you read the interconnection agreement  
13 between CEI and PJM?

14 A No.

15 Q And what is the basis for your stating that CEI  
16 has no direct interconnection with Ohio Power or with PJM  
17 then?

18 A I am not sure. I am just trying to keep in mind  
19 the transmission map. I might be in error.

20 If you have a transmission map I will be glad to  
21 rectify the error.

22 It wouldn't matter whether they did or they did  
23 or they didn't.

24 MR. MELVIN BERGLER: Would this be a good time for  
25 a break?



mm7

1 CHAIRMAN RIGLER: Do you want to go on on this line  
2 for a little more, or are you about to move to another line.

3 MR. REYNOLDS: I could go on a little longer.

4 CHAIRMAN RIGLER: On this line?

5 MR. REYNOLDS: Yes.

6 MR. SMITH: Dr. Wein, assume a situation where  
7 there would be no provision in a pool for, say the CRPCO pool,  
8 for transmitting power from a utility outside the pool through  
9 a member of the pool.

10 Take the situation you have described, and let's  
11 assume that Consumers has available very cheap economy energy,  
12 Toledo has available medium-priced economy energy, and Duquesne  
13 at the moment has on the line high-priced energy.

14 If Toledo has the opportunity to purchase the  
15 economy power from Consumers, thereby freeing medium-priced  
16 power to transmit to Duquesne, would those arrangements be  
17 feasible? I mean, would it be feasible then for Toledo to  
18 buy the cheap Consumers power and sell its medium-price  
19 power to Duquesne.

20 THE WITNESS: Well as I understand it, as a  
21 matter of the electrical question, it is certainly feasible  
22 because they have been transmitting power for years through  
23 the network.

24 As a matter of economics it would be desirable  
25 for them to do so, particularly if they are going to

mm8

1 operate as an integrated system. If they are able to get  
2 cheaper power, than by what they are trying to do under  
3 economic dispatch in an integrated system is to get that  
4 cheaper power on the line and push off the expensive power  
5 so that you eventually reach an equilibrium that all your power  
6 sources, all your energy is coming from generation which has  
7 the equal incremental costs at that particular time.

8 That is what they attempt to do.

9 MR. SMITH: So then there would not be  
10 necessary a specific agreement to transmit power to members  
11 from outside the pool among themselves?

12 THE WITNESS: I think if they would engage in  
13 economic dispatch, that would cover the situation.

14 It seems to me to be so inherently beneficial to  
15 all the members of the pool that if that were their aim --  
16 apparently that is the aim of the CAPCO pool.

17 Now whether there would have to be an agreement  
18 written, I don't know. I haven't read it. But just reading  
19 this -- reading the Form 12s, it seems to me that that is  
20 implicit in it, and when they say they want to coordinate  
21 their transmission facilities not only amongst themselves,  
22 but with outside companies, that would be one of the situations  
23 that I think would be covered.

24 BY MR. REYNOLDS:

25 Q IN the absence of any agreement, who would get the

, ,mm9

1 cheap power of Consumers, Duquesne or Toledo?

2 A Well they do have -- they usually have -- what  
3 happens here is, I believe in CAPCO that is it, but I would have  
4 to refer to a document. There would be a split in savings  
5 benefit in this case. Consumers would get half the benefit.

6 It other words, if Toledo said, I can get the  
7 energy of 5 mills, my own cost is 8 mills, there is a difference  
8 of 1 1/2 mills. I buy it at 6 1/2, Duquesne's cost is 9  
9 mills, then Duquesne gets part of it. It splits the saving.

10 Q But who splits the -- who is the one who splits  
11 the savings with Consumers, Toledo or Duquesne?

12 A Toledo splits the savings with Consumers, 5 1/2 or  
13 5 1/2 to 8. And then apparently Duquesne is getting some  
14 of Consumers which is lower than it, and it splits the  
15 saving with -- I mean Toledo's, which is lower than it, and  
16 it splits the saving with Toledo.

17 Q I think you made a correction.

18 A Did I misspeak and say Consumers?

19 Q I thought you wound up saying that Duquesne would  
20 then get part of Toledo's power. Is that what you meant to  
21 say?

22 A Yes. Duquesne would get part of Toledo's power  
23 and split the savings with Toledo.

24 CHAIRMAN RIGLER: Mr. Reynold's question was  
25 though, in the absence of an agreement.

mm10

1 THE WITNESS: Well I don't know in the absence  
2 of an agreement how they would split it up.

3 But according to this document they generally  
4 use a split-the-savings basis.

5 CHAIRMAN RIGLER: But in the absence of an  
6 agreement, if Toledo bought all of its cheap power from  
7 Duquesne and then sold the higher-price power on its system --  
8 wait a minute. If Toledo bought all the cheap power from  
9 Consumers and then sold its higher-price power to Duquesne,  
10 there would be nothing to prevent that, right?

11 THE WITNESS: Well there would be nothing to  
12 prevent that if the parties had not agreed as to the basis  
13 of all these power transactions which they do agree to.

14 CHAIRMAN RIGLER: Now are you saying that  
15 occurs in CAPCO agreements, a provision for splitting the  
16 savings?

17 THE WITNESS: I will check them for you, I think  
18 it does.

end 1D

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1E

1 Well, apparently this is what they do.  
2 According to this document they don't do it quite that  
3 way.

4 "Economy energy is the only class  
5 of service for which there exists a basic  
6 rate uniformly used by the majority of  
7 the pools in the survey. In other of the  
8 pools priced economy energy in general at  
9 the rate of the suppliers out of pocket  
10 or incremental cost plus one half of the  
11 difference between the suppliers cost and  
12 the receivers decremental cost."

13 Well, that is in fact what I said and amongst  
14 those they list Team Pool 1, which is CAPCO.

15 BY MR. REYNOLDS:

16 Q Just so I'm clear that we're on the same wave  
17 length, what you said, as I understand it, is given the  
18 hypothetical that Mr. Smith stated, that Toledo Edison  
19 would buy all of the cheap power from Consumers and  
20 split the savings with Consumers and that then Toledo  
21 Edison would sell to Duquesne its medium priced power  
22 and split the savings with Duquesne and Duquesne would  
23 not get any of the cheap Consumers power directly.

24 A I don't know what electricity they would get  
25 but in effect that's how it would work, yes, as I understand

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this thing.

CHAIRMAN RIGLER: We'll take a ten minute recess at this time.

(Recess.)

CHAIRMAN RIGLER: On the record.

BY MR. REYNOLDS:

Q Dr. Wein, let's assume that Consumers had a wheeling contract with Duquesne Light -- assume that Consumers had a wheeling contract with Toledo Edison -- strike that and I'll start over again.

Assume a wheeling contract between Toledo and Duquesne and that in that circumstance, then, Duquesne could go directly to Consumers and purchase the cheap power and pay a facility's use charge to Toledo Edison to wheel that power over Toledo's lines to Duquesne. would that not be correct?

A Toledo --

MR. MELVIN BERGER: Objection. I think there is something missing in that hypothetical.

THE WITNESS: Toledo could not go directly to Duquesne. They would have to go over somebody else's line.

BY MR. REYNOLDS:

Q All right, let's say there is also a wheeling contract with Ohio Edison, then Duquesne could go directly

mpb3

1 to Consumers for the power to be wheeled over the Ohio  
2 Edison line and Toledo Edison lines?

3 MR. MELVIN BERGER: Who has the Ohio Edison  
4 wheeling agreement, Ohio Edison and whom?

5 BY MR. REYNOLDS:

6 Q Ohio Edison and Toledo and Duquesne.

7 MR. MELVIN BERGER: You mean there are three  
8 parties to the wheeling agreement?

9 MR. REYNOLDS: Yes.

10 THE WITNESS: You mean Duquesne has one  
11 separately with Ohio Edison and Ohio Edison has one  
12 separately with Toledo and Toledo has one separately  
13 with Consumers, or do you mean Ohio Edison has one with  
14 Duquesne which has also got one with Toledo which has  
15 also got one with Consumers and all the intervening  
16 people have agreements with all the parties involved?  
17 There are lots of combinations when you have three entities  
18 involved.

19 CHAIRMAN RIGLER: Why don't you take Duquesne  
20 out of your example and let it be a sale from Consumers  
21 to Ohio Edison with Toledo Edison being the wheeling  
22 party?

23 MR. REYNOLDS: Okay.

24 BY MR. REYNOLDS:

25 Q Let's do that. That will simplify it.

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A What's the question?

Q We're assuming that you've got a wheeling contract between Ohio Edison and Toledo Edison and then that Ohio Edison goes directly to Daquesne -- I mean to Consumers to purchase the cheaper power and then pays to Toledo Edison a facility's use charge in order to have that power wheeled to Ohio Edison.

Do you have any --- would that be the way that that transaction would work?

A I don't know how the transaction would work, you're assuming that that's the way it would work.

Q Do you have any problem with that assumption, Dr. Wein?

A If that's the assumption, that's the assumption.

Q Now, do you know whether the CAPCO companies engage in that kind of a transaction or whether they would accomplish that transaction by a buy-sell arrangement as we discussed earlier?

A I'm not sure. I don't know how it would work.

Q You don't know?

A All I have is an answer, A-7, to the Attorney General and it says as follows:

"CAPCO companies periodically review their interconnections with systems which are not members of CAPCO to determine the



mpb5

1           adequacy of such interconnections for the  
2           purpose of justifying the criteria of  
3           reliance upon resources outside CAPCO not  
4           more than one day per year."

5           Now, I don't know when -- if this is a kind  
6           of transaction which takes place I don't know what the  
7           terms are, I just haven't read that.

8           Q       Let me ask you this hypothetical, Dr. Weir:

9                    Let's assume three systems: System A is a  
10           small municipal system, System B is an investor-owned  
11           system --

12          A       Wait a minute. Let me write this down.

13          Q       All right.

14                   System A is a small municipal system; System  
15           B is a large investor-owned system and you've got a  
16           third system, System C.

17          A       What is it?

18          Q       It doesn't matter.

19          A       Well, it's got to be one or the other.

20          Q       An investor-owned system.

21          A       Small or large?

22          Q       It doesn't matter.

23          A       All right. Just an IOU, okay.

24          Q       Now, let's assume that B is between A and C  
25           and B has agreed to wheel for System A power from

mpb6

1 System C and assume that System C has low cost power;  
2 System B has medium cost power and System A has high  
3 cost power.

4 A Okay.

5 Q And that A and B have equal opportunity to  
6 purchase System C's low cost power.

7 A Yes.

8 Q All right.

9 Now, in that situation would you expect that  
10 System B would enter into a wheeling transaction with A  
11 in order to transmit to A the power from C or would buy  
12 System C's lower cost power and resell it to System A?

13 A Are you asking me what I would expect them to  
14 do?

15 Q Wait a minute. I misspoke.

16 Would you expect System B to enter into a  
17 wheeling transaction with A in order to transmit System  
18 C's low cost power to A --

19 A I thought the hypothesis was that they had a  
20 wheeling agreement.

21 Q -- or --

22 A Or what?

23 Q -- would you expect System B to buy System  
24 C's lower cost power and then resell its medium cost power  
25 to A?

pb7

1 MR. HJELMFELT: I object.

2 MR. MELVIN BERGER: I object.

3 MR. HJELMFELT: The hypothetical as given was  
4 that B has agreed to wheel power from C to A.

5 MR. REYNOLDS: That's right. And then the  
6 question was whether they would enter into a wheeling  
7 transaction or a buy-sell transaction given the fact that  
8 there is a wheeling agreement. That was the --

9 MR. HJELMFELT: Has the A contracted for the  
10 power with C?

11 MR. REYNOLDS: The assumption is both A and B  
12 have equal opportunity to go out and buy System C's  
13 lower cost power.

14 THE WITNESS: I would if B were really intending  
15 to monopolize the business B would not want to do it.

16 On the other hand --

17 CHAIRMAN RIGLER: B is --

18 THE WITNESS: Just a minute, let me finish,  
19 please.

20 If A, which under your hypothesis was highest  
21 cost, therefore they could pay C a much better price and  
22 C would prefer to sell it to A and if A and B had a wheeling  
23 contract then B ought to wheel. But since B doesn't want  
24 to do that, B will say, No, I'll buy it, and that's  
25 exactly the sort of thing I had illustrated in my quotation

4pb8

1 from Justice Holmes.

2 Now, are you asking me what the contract should  
3 provide? The question then is you had better give me the  
4 details of the contract.

5 BY MR. REYNOLDS:

6 Q Well, B could bid up to its medium cost power.

7 A Pardon me?

8 Q B could bid a price up to its medium cost power  
9 for C's low cost power.

10 A But A could outbid them because they would  
11 save more and therefore C would prefer to sell to A.

12 Q And what, then, would be the advantage to A  
13 if you're saying they can outbid them --

14 A Of course. Suppose C's power was -- you can  
15 get it at 3 mills and B says, Well, I've got 5 mills, I'd  
16 rather buy it at 3 mills and A says, It's 10 mills, anything  
17 below 10 mills saves me.

18 CHAIRMAN RIGLER: Why wouldn't A be better  
19 off to bid only up to the limit of 5 mills because I know  
20 they can buy the power from B at 5 mills.

21 THE WITNESS: That's not in the hypothetical  
22 that they could buy the power from B at 5 mills.

23 You said B could purchase it from --

24 BY MR. REYNOLDS:

25 Q I said B would resell it at its medium price to

mpb9

1 System A

2 A Well, if B would resell it, if B would resell  
3 that -- you see, if in fact B needed the power, it's a  
4 question as to what's happening here. If B needed the  
5 power because they didn't have enough power they could  
6 buy it at 5 mills, their cost is 5 mills and C's is 3  
7 mills. B says, Well, I would rather buy that power at  
8 5 mills -- I mean at 3 mills rather than produce it at  
9 5 mills. Thereupon, B says, I offer C 5 mills for it.  
10 That means B is going to use it. It's not available to  
11 A any more.

12 The question is if they both -- if it has  
13 enough power for both then they ought not to do it. If  
14 there is only enough power for B and C then B buys it  
15 and C can't get it even though -- I mean A can't get it  
16 even though A is willing to pay more than the 5 mills that  
17 B is going to pay.

18 Q But that's on your assumption that B needs  
19 that power itself?

20 A Well, you have to tell me what the assumption  
21 is.

22 Q Well, my assumption was that B had no need for  
23 the power, that the only question was whether B would  
24 enter into a wheeling transaction in order to get that  
25 power or enter into a buy-sell transaction.

mpb 10

1           A        Okay, then it's even worse.  If B has no need  
2       for the power then C might be able to sell it to A at  
3       4 mills.

4                    What you're saying is B is in a position to  
5       make sure that A can't get it for better than 5 mills  
6       under either assumption, whether it needs it or it doesn't  
7       need it.

8           Q        B could bid up the price to 4.99 mills and then  
9       sell it to A for 5, couldn't it, sell its own power to A  
10      for 5?

11          A        Well, that seems to me, then, interposing B  
12      as a determinant and an arbiter of the price at which A  
13      could get from C if B weren't interfering in the transaction.

14          Q        And isn't that what competition --

15          A        Not at all.  That's not competition in this  
16      case.  Competition would have B, if it needs the power,  
17      buy the power at the best price it could get it.  If  
18      it doesn't need the power but simply is buying it in order  
19      to forstall a competitor from buying it and bidding up  
20      the price, that doesn't seem to me to be what would  
21      happen in constructive competition.

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1 Q Wouldn't System B be negligent in its responsi-  
2 bilities if it did not buy the C power for 4.9 mills instead  
3 of the 5 mill medium-priced power it otherwise would have?

4 MR. MELVIN BERGER: Objection. Responsibilities  
5 to whom?

6 BY MR. REYNOLDS:

7 Q To its customers?

8 MR. MELVIN BERGER: To its retail customers?

9 MR. REYNOLDS: Right.

10 THE WITNESS: Well, B would be negligent if it  
11 could obtain from C a power lower than its own, of course  
12 assuming whatever the transaction or transmission charges  
13 were and so forth.

14 On the other hand if A has a wheeling contract  
15 with B, it's either a wheeling contract or it isn't a wheeling  
16 contract and-- I mean what you're saying is that B will pick  
17 and choose.

18 Now if B didn't need the power but simply bought  
19 it in order to push the price at least to 5, that's one  
20 situation. If B needed the power it could be outbid if it  
21 had a wheeling contract because it is not worth more than 5  
22 mills to it but it's worth more than 5 mills to C.

23 Now if B needed the power --

24 BY MR. REYNOLDS:

25 Q You mean to A.

eb2

1 A I mean to A.

2 But if B needed the power and it didn't have a  
3 wheeling contract then of course it might say "Why should  
4 I do this for you," and they oftentimes say that.

5 Q But if A could get the medium-priced power from  
6 B directly, why would it outbid B for C's low-cost power?

7 A Well, the question here is-- You see, the ques-  
8 tion here is what the purpose of B is in bidding the power.  
9 If B needed the power and B could get the power at 5 mills,  
10 then B says "No, I don't want to buy it at 5 mills because  
11 that's what I can produce it at," if C wanted to pay 6 mills  
12 or 7 mills, then B says "Well, I'll buy the power and sell  
13 it to you at 7 mills," it is interposing itself in between  
14 two parties who would ordinarily make a transaction.

15 CHAIRMAN RIGLER: You misspoke when you said C  
16 was the purchaser. You meant A.

17 THE WITNESS: I'm sorry, A and C could enter  
18 independently into a transaction and B is entering into it  
19 only in order to bid up the power to A.

20 BY MR. REYNOLDS:

21 Q What if it has entered into it to lower the cost  
22 to itself?

23 A Well, but then I'm saying if it is doing that  
24 then its top price is something less than the transmission  
25 cost from C to B, and take 5 mills minus that, that's its



ab3

1 top price for it. A's top price will meet that but B says  
2 "I won't do it."

3 CHAIRMAN RIGLER: The question is why would A's  
4 top price beat that if you further assume that B is willing  
5 to sell power to A at 5 mills?

6 THE WITNESS: Well, but then if B is willing to  
7 sell power to A at 5 mills and it doesn't itself need the  
8 power then it is eliminating the possibility that A can get  
9 it from C for 4 mills, or 3-1/2 mills. It's foreclosing that  
10 possibility.

11 You have to assume one thing or the other,  
12 either they need the power or they don't need the power.  
13 And if they're entering the market in order to raise the  
14 price to A, that seems to me to be--

15 BY MR. REYNOLDS:

16 Q Isn't B always going to need the power if it can  
17 get it cheaper?

18 A Yes, but the question here is whether A can get  
19 it cheaper than C if B weren't around.

20 MR. SMITH: You always have to bear in mind in  
21 your hypothesis that both have equal opportunity to buy C's  
22 power.

23 MR. REYNOLDS: That's right. That's what the  
24 hypothesis assumes.

25 MR. SMITH: And yours doesn't work if you bear that

D4

1 in mind because there's no way ever that B could buy from C  
2 without double transactions. Of course you're not using  
3 transactions twice in your hypothesis. But there's no way  
4 ever that B could buy from C and resell it to A cheaper  
5 than A could buy it from C, no matter what you put B's cost  
6 of power at. I mean either B needs it or he doesn't.

7 This is not electric power economics. This is  
8 geometrical axioms. This is the sum of the parts equals the  
9 whole.

10 MR. REYNOLDS: B will lower its cost to its system  
11 and displace its own power.

12 MR. SMITH: It can only lower its cost to its  
13 system at the cost it pays for C's power which is also avail-  
14 able to A at that price.

15 MR. REYNOLDS: But C's power is always going to  
16 raise to the level of B's -- whatever B is bidding on C's  
17 power and then B will sell to A its medium-priced power.

18 (The Board conferring.)

19 MR. SMITH: B cannot sell to A at a price higher  
20 than A can buy it from C, and that's your fallacy, so there's  
21 no way that B can buy from C and resell so long as C is  
22 standing there as an alternative supplier to B.

23 MR. REYNOLDS: But C will sell to B at the price  
24 that B bids up C's low-cost power.

25 MR. SMITH: Okay.

eb5 1 MR. REYNOLDS: And then B will turn around and  
2 sell to A at its medium price.

3 MR. SMITH: Is B's medium price higher or lower  
4 than C's price?

5 MR. REYNOLDS: Higher, but lower than A's price.

6 MR. SMITH: A's price for what?

7 MR. REYNOLDS: For its own power.

8 MR. SMITH: Why does A ever want to buy anything  
9 from B when it can buy from C cheaper, given your hypothesis  
10 that --

11 MR. REYNOLDS: Because B will send up C's price.

12 MR. SMITH: But it never bids it up higher than  
13 its medium price.

14 MR. REYNOLDS: But it will bid it up at least  
15 equal to its medium price. And then why would A go to C?  
16 A can go right to B and get it.

17 MR. SMITH: The best you could ever have would  
18 be equality.

19 MR. REYNOLDS: That's right. That would be the  
20 competitive results.

21 MR. SMITH: Then insert transaction costs. Then  
22 you have a double transaction instead of a single trans-  
23 action.

24 THE WITNESS: Counting the transaction between  
25 B and C as one, and then you have a transaction between B

eb6

1 and A as one, where originally you might have had it from A  
2 to C.

3 CHAIRMAN RIGLER: On the other hand, that could  
4 be offset by transmission cost savings; if you're pumping the  
5 power in at one end of the B system and taking it out the  
6 other end you save some transmission costs I would assume.

7 THE WITNESS: What is this?

8 CHAIRMAN RIGLER: If the C power is flowing into  
9 B's system at one point and B is pumping power into the A  
10 system at another point across the system you don't have to  
11 transmit that power all the way across the system.

12 THE WITNESS: Well, that's how that happens all  
13 the way anyway. You're not really saving. It's the same way  
14 it would work in any case.

15 MR. REYNOLDS: You would save the utility use  
16 charge.

17 THE WITNESS: No, you wouldn't save the utility  
18 use charge. It would be the same use charge in any case.

19 MR. SMITH: Another fallacy that you're using  
20 here is you're not quantifying your amounts.

21 MR. REYNOLDS: I'm not sure I follow you, Mr. Smith.  
22 Why would that make a difference?

23 MR. SMITH: Well, let's assume there's a finite  
24 amount of power available.

25 MR. REYNOLDS: All right.

eb7

1 MR. SMITH: And only sufficient to supply A's  
2 needs. That is the finite amount.

3 MR. REYNOLDS: All right.

4 MR. SMITH: Then I don't think it would work.

5 MR. REYNOLDS: Why is that?

6 MR. SMITH: Because B could then not buy C's  
7 power to reduce its average cost of power.

8 MR. REYNOLDS: Why is that? I mean you've got the  
9 same-- Why wouldn't they do it for the exact same amount and  
10 sell that amount to A?

11 MR. SMITH: You can't buy power at one end at X  
12 dollars and sell it at the other end at X dollars and still  
13 make out on it.

14 THE WITNESS: You're not making out on it at all.

15 If it buys-- Can I add to the colloquy, since  
16 the question was addressed to me?

17 It is certainly the case that in this case we  
18 have two buyers, A and B, and by hypothesis, A is a very  
19 small municipal and B is a very large IOU, and there is a  
20 wheeling agreement.

21 Now the second hypothesis is C is at 3 mills and  
22 B is at 5 mills, and there is some transmission cost right  
23 through.

24 Now since there is competition for this load of  
25 C which is available at 3 mills, Mr. Reynolds is right in

eb8 1 saying that it would go up to 5 mills but then it doesn't  
2 make any sense for B to sell A its needs at 5 mills. That's  
3 number one.

4 So B has got to sell it at something above 5 mills  
5 and the transaction doesn't make any sense at all.

6 The second point: Bearing in mind the hypothesis  
7 of a very small municipal system and a very large ICU, it  
8 may be that what A is asking for is 10 megawatts of power  
9 at this charge, which would be very small. And when you feed  
10 that into B's system, which is very large, you would not find  
11 any reduction in that at all, that 3 mill. You missed that  
12 in the fourth decimal point. I mean before you could catch  
13 it you would get it in the fourth decimal point whereas to  
14 A, which is a small system, this is a very large proportion-  
15 ate saving to them whereas to B, for this small a load,  
16 it could be absolutely a trivial saving to them. It would  
17 not even be wiped out in the bookkeeping costs.

18 So that's the second point I think that you're  
19 making, Mr. Smith, that the size of the load is very impor-  
20 tant here. It is small. It is a small load and it gives  
21 a big reduction for the small municipal but by hypothesis,  
22 it gives a trivial reduction for the other.

23 Now I think when you start to look at it in that  
24 way, then the need for B to interpose himself becomes  
25 less and less.

ab10

1 transaction cost of B before that makes sense, but you  
2 haven't quantified those aspects of your hypothesis. They're  
3 not fed into your picture.

4 THE WITNESS: He couldn't in any event, Mr. Smith,  
5 buy it at 4.99 at all because A is willing to pay 5.

6 CHAIRMAN RIGLER: No, A is only willing to pay  
7 4.99.

8 THE WITNESS: No, B is willing to pay 4.99. B is  
9 the big IOU. He never could buy it at 5 -- at 4.99. He  
10 couldn't buy it at all in competition with A if that were all  
11 that were involved.

12 MR. REYNOLDS: Whatever the figure, B will buy  
13 at 5 mills less the transmission cost, whatever that happens  
14 to be, which is always going to be less than what A would  
15 be able to buy it at.

16 THE WITNESS: No, but then if he sells it back  
17 to A, if that transmission cost is in fact a cost, then what  
18 it amounts to is that B is buying the power at the same price  
19 that B can produce it and then he's selling it back to A at  
20 the same cost that he can produce it and that -- that's all  
21 that happens so why should B buy the power.

22 MR. SMITH: But isn't his point valid, notwith-  
23 standing the actual figures we're using, but isn't his point  
24 valid that if the cost of handling by B in a buy-sell  
25 arrangement to A is less than A's cost of transmitting from

eb'l 1 C, then something can be worked out, given the right prices?  
2 We have not received the right prices in this hypothesis.

3 THE WITNESS: I don't think so because I think  
4 your idea about the geometry of it is right. It doesn't  
5 really matter how we arrange it.

6 Let us assume that B and C are only 10 miles apart.  
7 C is the surplus --

8 MR. REYNOLDS: I really don't know what we're  
9 doing now.

10 THE WITNESS: And A is 100 miles.

11 MR. SMITH: Please don't answer for my benefit  
12 now. I think Mr. Reynolds -- it would be better for him to  
13 develop it for himself.

14 CHAIRMAN RIGLER: I have a question I want to put  
15 to you, Mr. Reynolds, at this point.

16 You are arguing that the acquisition of the C  
17 power at any price up to 5 mills should not be considered  
18 anticompetitive because B's purpose is merely to lower its  
19 power cost throughout its system by averaging in cheaper  
20 power, and its primary purpose therefore is not to deprive  
21 A of the power but merely to lower its own costs and thereby  
22 maximize its profits.

23 MR. REYNOLDS: Right.

24 CHAIRMAN RIGLER: If I accept that, where does  
25 your hypothetical lead you in terms of what the Board is



eb12

1 considering? It seems to me that you cannot argue that A  
2 is every bit as well off if it merely buys the power from  
3 B at 5 mills even though that may be the net result of the  
4 hypothetical as you have structured it because we have had  
5 repeated testimony that it is the availability of the option  
6 that is necessary for A's survival and that A's check on the  
7 prices that B can charge it, namely the 5 mill top, is going  
8 to be governed by the fact that it can get wheeling of the  
9 lower-cost C power.

10 MR. REYNOLDS: Let me ask you-- Maybe we ought  
11 to do it by asking the witness:

12 BY MR. REYNOLDS:

13 Q Given the hypothetical we've been discussing in  
14 a competitive market, would you ever have -- would System B  
15 ever engage in the wheeling transaction?

16 A Well, I'm now a little confused as to whether  
17 this is a new hypothesis or not. Is there a contract to  
18 wheel between A and B, or isn't there?

19 Q There is an agreement to wheel and A and B have  
20 equal availability to C's power and compete for that power  
21 and the question is whether in that situation there would  
22 ever be any incentive on B's part to wheel the power, or  
23 on A's part to ask to have the power wheeled as opposed to  
24 doing the transaction on a buy-sell basis?

25 A Well, certainly if A could get the power from C

eb13

1 at a cheaper price than B could it would ask to wheel.

2 That's number one.

3 Number two, if B said No, the wheeling contract  
4 doesn't allow me to do that, if that were it, and then B,  
5 according to your hypothesis, says Well, my power is 5 mills  
6 and I can buy it for 4.99 -- let's suppose the transmission  
7 charge is a half a mill between B and C and a half a mill  
8 from B and A, so that C's price, if A gets it, A can offer  
9 C -- It would have to pay a mill, whatever the price is.  
10 If he got it at 3 mills it would be delivered to A at 4  
11 mills; if he got it at 5 mills it would be delivered to A  
12 at 6 mills.

13 Now if B then, because A is in the market, bids  
14 up the price, and the maximum it could bid up the price  
15 to would be -- if its own generation is 5 mills it could bid  
16 it up to 4-1/2 mills, and that is what it can do. It can't  
17 go any higher than that; 4-1/2 mills plus 1/2 a mill is 5  
18 mills and therefore it prefers to keep the power itself.

19 A then could get the power; since B has bid it  
20 up to 4-1/2 mills, A would have to go to 5-1/2 mills to get  
21 the power from C.

22 B then says Why buy the power from C? I can get  
23 it at 4-1/2 mills and it costs me 1/2 mill; that's 5 mills,  
24 and I'll sell it to you for 5-1/2 mills.

25 Then the question is why should B interpose

eb14

1 itself into the contract to start with if it knows that  
2 the other fellow is going to force him up to his own generating  
3 cost? B would stay out.

4 If B stays out this becomes a game problem. B  
5 figures "If I stay out he might get it for 4," you see, "or  
6 he might get it for 3-1/2 at C's delivery point and get out  
7 to 4-1/2. Therefore, he beats me."

8 B then says "Well, what's really involved in this?  
9 Is this going to reduce my average system cost by one one-  
10 hundredth of a mill, or is going to reduce it by a mill?"

11 Well, of course if it's going to reduce it by a  
12 mill he'd bid for it. If it's going to reduce it by a trivial  
13 amount he wouldn't.

14 So B then is manipulating the market in order  
15 to deprive A of getting an advantage because by hypothesis  
16 B really couldn't bid the power away from A. He just  
17 couldn't. He couldn't give A a better deal. He would still  
18 have to get it at 5-1/2 or what he's willing to pay C for  
19 so A couldn't use the power. He's going to lose. He's never  
20 going to get the power.

21 Now if he's never going to get the power against  
22 C's competition and he enters it only to prevent A from  
23 getting a better deal, that seems to me to be a fact that  
24 he would have to consider. That's why A would want to have  
25 wheeling.

eb15 1 Q And would you therefore conclude that B's acti-  
2 vity in that situation was destructive competition rather  
3 than constructive competition?

4 A Well, just from this one point, this one instance,  
5 I don't think I could conclude very much of anything. I  
6 conclude that B simply went ahead and simply entered into  
7 spoil the price for A and not doing any good for itself,  
8 and that would not seem to me to be very much.

9 Now if you were to say that A and B were in  
10 some competitive battle, they're in some competitive battle  
11 and the whole class of transactions of this sort were in-  
12 volved so that B would refuse to wheel, even if it couldn't  
13 make any deal for itself, even if it didn't need it, --

14 Q We didn't assume that, did we, Dr. Wein?

15 A I'm trying to explain why this one isolated case  
16 would not allow me to conclude very much.

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18 2A fls

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2A mm]

CHAIRMAN RIGLER: Let's go back to your question.

2

Assume that despite Dr. Wain's answer, we

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would find that the economics of the hypothetical as you have

4

posed it, meant that A never called upon B to fulfill its

5

contractual obligation to wheel.

6

MR. REYNOLDS: You say did or did not?

7

CHAIRMAN RIGLER: Did not. That was your question,

8

wasn't it?

9

MR. REYNOLDS: Yes, I just didn't hear you.

10

CHAIRMAN RIGLER: Wasn't your original question,

11

why would A ever have occasion to call upon B to wheel, given

12

the economics of the hypothetical as you posed it.

13

Where would we go from there?

14

The problem is, doesn't A still need that wheeling

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contract even if it never exercises its rights under that

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contract in order to keep a checkpoint on the price B will

17

charge it for power?

18

MR. REYNOLDS: I will respond to that if you wish.

19

CHAIRMAN RIGLER: Yes.

20

MR. REYNOLDS: That would be so in the absence of

21

a contract to provide -- let me get my A, B and Cs correct.

22

That would be in the absence of a contract by B to provide

23

power to A at its average system cost.

24

CHAIRMAN RIGLER: Wouldn't A need the wheeling

25

contract in any event because A has no guarantee that B's

mm2 1 average system cost would not balloon from the 5 mill figure  
2 to even higher?

3 MR. REYNOLDS: But regulation in the industry  
4 does build in that safeguard.

5 CHAIRMAN RIGLER: We are departing a little bit  
6 from the ordinary cross-examination here, but I think the  
7 colloquy is helpful and that is why we permitted it to go  
8 on so long. And I appreciate counsel's responses.

9 It seems to me that regulation is still going to  
10 allow B to recover its cost and make a profit. If B is  
11 operating inefficiently A could still find itself in a  
12 position of buying high-cost average power even if a  
13 regulatory scheme were in effect.

14 You have not satisfied me as to why A doesn't need  
15 that wheeling contract even though it never exercises its  
16 rights under that contract.

17 MR. REYNOLDS: We are talking now about a situation  
18 without the wheeling contract. If these prices balloon, then  
19 it would raise the price that it bid on C's power and in  
20 order to reduce its average system cost and thereby would  
21 bring the prices of A, B and C into equality.

22 CHAIRMAN RIGLER: Is that answer dependent upon  
23 perfect functioning of the regulatory scheme, or let us say  
24 the prompt functioning of the regulatory scheme to adjust  
25 prices?

mm3

1 MR. REYNOLDS: It would not depend on that.

2 CHAIRMAN RIGLER: Would it be influenced by the  
3 speed with which the regulatory scheme allowed B to change  
4 its prices?

5 MR. REYNOLDS: No.

6 MR. MELVIN BERGER: I believe Dr. Wein would  
7 like to add a comment.

8 CHAIRMAN RIGLER: He is welcome to.

9 THE WITNESS: I think when you bring the  
10 regulatory scheme in, you have to bring it in all or you have to  
11 not bring it in all.

12 Presumably C is selling its power pursuant to a  
13 regulatory scheme. If its rates were 3 mills, it couldn't  
14 sell them at 10 mills, B would not be able to bid them up.  
15 The price is 3 mills. If this is a wholesale firm power  
16 transaction, then it would come pursuant to regulatory  
17 scheme. The price is 3 mills, B gets it at 3 mills no matter  
18 what his prices are.

19 So that is an inconsistent assumption in reference  
20 to your answer.

21 On the other hand, if it is not a wholesale  
22 firm power but part of the things we call the bulk power  
23 transactions, the regulatory scheme would not even be  
24 involved.

25 MR. LESSY: I don't see how B's average price

nm4

1 would be C, and C is 3 if B were the larger. I am just trying  
2 to follow the hypothetical even as given.

3 In other words, why would the larger system have a  
4 higher price than the smaller IOU under the A,B,C, regime.  
5 That throws the numbers way off.

6 CHAIRMAN RIGLER: No, A's price was 10; B's price  
7 was 5; and C's price was 3. That is their production cost.

8 MR. LESSY: Why is the production cost of B the  
9 largest, higher than C?

10 CHAIRMAN RIGLER: C may be an even larger. C may  
11 have hydropower.

12 THE WITNESS: It didn't matter what it was.

13 BY MR. REYNOLDS:

14 Q Dr. Wein, let me ask you a question that I meant  
15 to get back to and we got off on this discussion.

16 Was it your suggestion during the colloquy that  
17 we had here, that no large system should engage in an economy  
18 interchange transaction with a smaller system?

19 A No, that was not my suggestion.

20 Q You did say, didn't you, that an exchange of  
21 10 megawatts with system C in this hypothetical was so trivial  
22 an amount as not to be detectable?

23 A It was trivial for B but not for C. That doesn't  
24 mean that C would not get a very great advantage and B only  
25 a small advantage.



mm5

1 Q All right.

2 And B is the large industrial-owned utility?

3 A Yes.

4 Presumably the transaction in the assumption was  
5 a very small amount which would satisfy C; not a very big  
6 amount which would satisfy B.

7 MR. SMITH: Don't you mean A, the buyer, not the  
8 seller?

9 THE WITNESS: I mean A, which would satisfy A,  
10 and not a very large amount which would satisfy B.

11 I am not suggesting they should not engage in any  
12 economy interchange if it is really economy for them.

13 BY MR. REYNOLDS:

14 Q Can you tell us, Dr. Wein, what interconnection  
15 points the CAPCO transmission has with non-CAPCO systems  
16 outside the states of Ohio and Pennsylvania?

17 A I suppose I can go through and check them out.  
18 It is not something I commit to memory.

19 Do you want me to go through that? I will just  
20 take the next 20 minutes reading them.

21 MR. MELVIN BERGER: Is there a reason for knowing  
22 precisely what interconnections we are talking about,  
23 Mr. REynolds?

24 MR. REYNOLDS: On page 104 Dr. Wein testified  
25 that the associated transmission called CAPCO transmission

mm6

1 is similarly planned and constructed, including intercon-  
2 nection points with non-CAPCO systems both within and outside  
3 the states of Ohio and Pennsylvania.

4 THE WITNESS: What about it?

5 BY MR. REYNOLDS:

6 Q What I'm trying to ascertain is what intercon-  
7 nection points the CAPCO transmission system has with non-  
8 CAPCO systems outside the states of Ohio and Pennsylvania.

9 A Well, Toledo has one with Michigan. That's one  
10 state outside. It's got an interconnection point with  
11 Michigan.

12 I'm not sure about West Virginia. I think one  
13 of the-- There may be something in West Virginia.

14 Michigan is the one that comes to mind.

15 CHAIRMAN RIGLER: Mr. Reynolds, may I interrupt  
16 you for a minute? I want to go back to our last colloquy  
17 discussion.

18 You told us that as little System A was consider-  
19 ing the purchase of 10 Mw of power from big System B--

20 THE WITNESS: Big System C.

21 CHAIRMAN RIGLER: --big System C, that Ebig  
22 System C may not even want that 10 Mw because it is de minimis  
23 given the overall load on that system at any point. And  
24 the mechanics of going through the buy/sell transactions  
25 would not justify it because the effect on the system cost  
would not be seen until you reached, I think you said the

wbl 1 fourth decimal.

2 THE WITNESS: Yes.

3 CHAIRMAN RIGLER: Earlier, when Mr. Reynolds was  
4 asking you about staggered construction, he asked you what  
5 the addition of two or three megawatts would do from the  
6 little system to the staggered construction schedule of the  
7 big CAPCO companies, and you said that it could be important.

8 Is there any inconsistency in those positions,  
9 or can they be rationalized?

10 THE WITNESS: I think in my answer -- and you can  
11 check in the transcript, he said What would Pitcairn add?  
12 and I said Pitcairn would add 3 Mw. Well, is that important?  
13 I said, No, you have to consider the entire municipals form-  
14 ing together in an association, acting together, where it  
15 might be 200 Mw. It's in that connection that I put it.

16 Sure, Pitcairn wouldn't add anything. It would  
17 hardly be worth their while for either Pitcairn or CAPCO  
18 to consider that. But now when you're considering MELP and  
19 you're considering the associations such as AMP-Ohio, you are  
20 now pooling the loads of little ones and bigger ones and  
21 middle sized ones, and you can go up. And, as I pointed out  
22 in my direct testimony, if you assume the rates of growth for  
23 the municipals are the same as that, you might get in 1983  
24 them having a load of maybe 800 Mw. That's a significant  
25 amount to engage in staggered construction.

wb2

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CHAIRMAN RIGLER: I'm sorry to have interrupted,

2

Mr. Reynolds. Please go on.

3

MR. SMITH: Along that line, too, wouldn't there

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also be a difference in evaluating capacity and in evaluating

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a short term, or a term purchase of power?

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THE WITNESS: Yes, there would be a great deal of

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difference, of course.

End 2A

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1 MR. SMITH: The hypothesis we had, though,  
2 envisioned a continuous, or didn't it -- was it firm  
3 power or economy?

4 THE WITNESS: The hypothesis was vague and  
5 then when you put in the regulation, well, that had to be  
6 firm in which case you just couldn't bid up price.

7 BY MR. REYNOLDS:

8 Q Dr. Wein, on page 129 you make reference  
9 generally to evidence in other regions in which corporate  
10 pools and team pools operate which you indicate would  
11 support the proposition that members of these pools do not  
12 compete. What evidence did you have reference to there?

13 MR. MELVIN BERGER: Is this 129?

14 MR. REYNOLDS: That's right, starting on the  
15 sixth line from the top.

16 MR. MELVIN BERGER: Thank you.

17 THE WITNESS: Well, I don't think -- essentially  
18 I had in mind A.E.C. and Alabama Power, the corporate  
19 pools. I'm not sure offhand, now I think of the team  
20 pools.

21 Well, I'll let that stay as far as the corporate  
22 pools. I'm not sure about -- the team pools, Michigan --  
23 the Michigan Pool, that's another team pool. There is  
24 lots of evidence in that case that they don't compete.

25 BY MR. REYNOLDS:

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Q And what evidence do you have in mind?

A Well, with respect to whom do you mean?

Q Let's take the Michigan Pool.

A Well, that happened three years ago. There were numerous documents I read having to do with Detroit Edison and Consumers Power which satisfied me then.

Q Did you examine that evidence again in preparation for your testimony here?

A No.

Q Did you read the decision of the Consumers Licensing Board?

A I did.

Q Do you know what that board's finding was with respect to competition in the Michigan Pool?

MR. MELVIN BERGER: Objection, I think it's irrelevant.

CHAIRMAN RIGLER: Overruled.

THE WITNESS: Well, the Board obviously didn't conclude what the Department was urging or they disagreed with the Department on numerous points.

CHAIRMAN RIGLER: Was the existence of competition within the Michigan Pool one of the issues decided by the Board?

THE WITNESS: I don't recall that now. It was a big fat opinion. I don't remember on that particular

mpb3

1 point what this board said.

2 BY MR. REYNOLDS:

3 Q And what evidence did you have in mind when you  
4 prepared your testimony with regard to AEP, for example?

5 A Well, I don't think the corporate pools have  
6 their subsidiaries compete with each other --

7 Q And do you base that assumption on anything in  
8 particular?

9 A -- when they're contiguous.

10 Yes, it's essentially when you say anything,  
11 yes, it's based on my understanding as to why corporations  
12 in the electric power industry wish to merge. One of  
13 the reasons they wish to merge is to make sure that the  
14 companies do not engage in competition. I could not  
15 see, for example, in the Alabama case that Alabama  
16 competed with Georgia even though they could have for  
17 different customers along the boundaries between Alabama  
18 and Georgia and similarly for customers along the  
19 boundaries of Mississippi where they have a subsidiary  
20 and Alabama. They could have competed but there was no  
21 evidence to indicate that they did.

22 I can't see why a corporate pool where it  
23 has continuous electrical systems would wish them to  
24 compete with each other. It might, but it seems to me  
25 the motives are much stronger for them not to compete with

mpb4

1 each other rather than to compete with each other in this  
2 particular industry. It's not necessarily true of other  
3 industries.

4 Q On page 108 of your direct testimony you state  
5 that:

6 ".... a municipality which now  
7 builds a 100 mw thermal unit to serve  
8 its customers is an economic waste  
9 compared to its joint ownership of  
10 10 percent of a nuclear plant with  
11 a 1,000 mw capacity...."

12 Do you see that?

13 A Yes.

14 Q If the municipality engaging in joint owner-  
15 ship does no more than put up 10 percent of the money  
16 required to build the 1,000 megawatt nuclear unit and  
17 thereby increases the transaction cost of constructing  
18 the plant, is that not an economic waste?

19 A Well, now, are you assuming all other things  
20 equal?

21 Q Yes, that's right.

22 A Now, you have to tell me what the magnitude  
23 of the transaction costs are, whether in fact they are  
24 substantial compared to the 100 megawatts or the 1,000.  
25 We're comparing two things, the question is which is more



mpb5

1 economic waste. If one dominates the other then it's not.

2 Q I'm not asking for the degree of economic  
3 waste, I'm asking if it is an economic waste.

4 A You have to give me the alternatives. Economic  
5 waste compared to what?

6 Q If there is an increase in the transaction costs  
7 of constructing the plant by virtue of their participation  
8 is that an economic waste as compared to their not  
9 participating?

10 A No, because there might be a decrease in  
11 transaction costs fighting cases before the FPC and  
12 other places. Transaction costs go up and down, you  
13 exchange one for another. Is it more expensive to engage  
14 in negotiation with Pitcairn or to sell them wholesale  
15 power or admit them to a pool? I don't know which it is.  
16 If you admit them to the pool you eliminate some trans-  
17 action costs and incur others.

18 CHAIRMAN RIGLER: Mr. Reynolds, is your  
19 question to the witness allowing for the savings in  
20 transaction costs achieved through cancellation of the  
21 single 100 mw unit?

22 MR. REYNOLDS: I'm sorry, I don't understand  
23 what you just asked me.

24 CHAIRMAN RIGLER: They cancel the small 100 mw  
25 unit in order to purchase the 10 percent interest in the

mpb6

1 1000 mw unit, that was your hypothetical, right?

2 MR. REYNOLDS: Right.

3 CHAIRMAN RIGLER: And your question was whether  
4 there was an economic waste through the increase in  
5 transaction costs associated with the 1000 mw unit and I'm  
6 asking you if your hypothetical allowed for the savings  
7 in transaction costs by virtue of the fact that the 100 mw  
8 unit was not being built.

9 Maybe I should ask the witness:

10 Is that a relevant consideration?

11 THE WITNESS: It is an extremely relevant  
12 consideration.

13 MR. SMITH: It goes farther than that. You  
14 have too many variables. Even comparing transaction one  
15 with transaction two you still don't have your "X" until  
16 you know what the efficiency of ten percent of 1000 is  
17 compared to the 100,000 unit. You don't have a workable  
18 equation until you fill all those out.

19 MR. REYNOLDS: Well, let's try it this way:

20 BY MR. REYNOLDS:

21 Q Dr. Wein, you drew the conclusion that a  
22 municipality which builds a 100 megawatt thermal unit to  
23 serve its customers is an economic waste compared to its  
24 joint ownership of ten percent of a nuclear plant with  
25 a 1,000 megawatt capacity, is that correct?

mpb7

1 A That's what I said.

2 Q Now if you had a parallel alternative available  
3 to the municipality of engaging in a joint ownership which  
4 would entail it to put up ten percent of the money  
5 required to build the 1000 megawatt nuclear unit and  
6 increased the transaction costs of constructing the plant,  
7 my question is whether that situation would not result  
8 in some economic waste?

9 MR. MELVIN BERGER: May I have the question  
10 read back?

11 (Whereupon, the Reporter read from the record  
12 as requested.)

13 MR. MELVIN BERGER: I don't understand the  
14 question. I don't understand what parallel alternative  
15 is being referred to, parallel to what?

16 MR. SMITH: Isn't the question simply this:  
17 That because of the nature of the municipality  
18 if the transaction costs are so unwieldy as to outweigh  
19 any efficiencies then would you not have an economic  
20 waste? Wouldn't that be true?

21 BY MR. REYNOLDS:

22 Q Will you answer that question?

23 A I think that's essentially what he's driving  
24 at because transactions -- Dr. Hughes uses that term but  
25 I am not particularly fond of it. In any case, what we're

mp58

1 really saying is, Look, if you build a 100 megawatt  
2 steam plant, over the life of that steam plant it might  
3 cost you \$5 million in discounted present value. If, on  
4 the other hand, you participated in the same megawatts,  
5 but now you've got a piece of a nuclear plant and over  
6 the 30 year life it will cost you \$3 million, so you  
7 want to save \$2 million. The question is if the additional  
8 other things, whatever they are and which he hasn't  
9 specified, but whatever you mean by transaction costs  
10 over a 30 year horizon whatever they cost comes out  
11 equal to \$2 million, then there is no point in -- you've  
12 got to swap. If it comes out equal to \$3 million you  
13 ought not build the steam plant, that's all.

14 That's what he's asking me, if the question  
15 is to have any sense.

16 Is that the question?

17 Q I think that's what Mr. Smith was asking.

18 MR. SMITH: What is your question?

19 MR. REYNOLDS: Well, I was leading up in that  
20 direction and it seems we reached an impasse and since  
21 you asked the question I'll move on.

22 CHAIRMAN RIGLER: Let's go on to something else,  
23 then.

24 BY MR. REYNOLDS:

25 Q Dr. Wein, let's assume that the small system is

mpb9

1 barred by law from joint ownership in the nuclear plant  
2 and can only obtain power from that nuclear plant by a  
3 unit power purchase. Also assume that the small system  
4 can construct a 100 megawatt plant with a cost to it, by  
5 virtue of its tax exemption, equal to or less than the  
6 cost of purchasing power from the large size nuclear plant.

7 What do you visualize as the benefit to the small system  
8 of the unit power purchase?

9 A Let me get this clear. It can construct a 100  
10 megawatt fuel plant cheaper than it can buy unit power,  
11 is that what you're saying?

12 Q Equal to or less than the cost of purchasing  
13 power from the large size nuclear plant.

14 A And it makes this calculation over the life  
15 of both plants, it's reasonably certain that this is the  
16 case, is that the idea? It's betting on the prices of  
17 coal or fuel oil or whatnot?

18 Having taken all of these things into considera-  
19 tion it says it's cheaper for me to have the thermal power.

20 If it came to these calculations I don't think it  
21 would actually enter into it, into that arrangement but  
22 that's quite a different thing from having the opportunity  
23 to do it because when you put the question realistically  
24 nobody can predict 30 years in advance, small systems  
25 or big systems. It may turn out that five years from now

mpb 10

1 that thermal plant is more expensive than expected  
2 because the price of coal, say, or natural gas or oil  
3 has gone up faster than they thought and faster than, say,  
4 the price of nuclear fuel has gone up and under those  
5 considerations, taking into account that they are a  
6 growing system, they might at that time wish to have  
7 the opportunity to enter into for some new nuclear that's  
8 around, they might wish to have at that time the opportunity  
9 to enter into -- to get access to it either through a  
10 unit contract or through ownership.

11 I guess this is what I have to say about that.

12 Q But if at the time that calculation had to  
13 be made the small system on the basis of that calculation  
14 determined that by virtue of its tax exemption the cost  
15 of the 100 megawatt plant was equal to or less than  
16 the cost of purchasing power from the large size nuclear  
17 plant then the nuclear plant would not be a unique resource,  
18 would it?

19 A No, that's not it because then if they had  
20 determined that that was the only basis then they wouldn't  
21 ask for a unit power contract, they'd ask for a piece of  
22 the plant and own it.

23 Q Well, the assumption was the small system is  
24 barred by law from joint ownership of the nuclear plant.

25 A Well, but under that case I suppose they would

mpb 11

1 try to go through some arrangement such as AMP Ohio  
2 would not be barred by law.

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1 Q But if you were to accept my assumptions then the  
2 nuclear plant would not be a unique resource?

3 A Well, if you're telling me that they can't get it,  
4 if it is illegal for them to buy it in that way, then I  
5 suppose it's not a unique resource. It's unique but they  
6 can't get it according to law.

7 Q If the 100-megawatt unit were cheaper to the small  
8 system by virtue of its tax exemption, would there be  
9 economic waste in the construction of that 100-megawatt unit?

10 MR. MELVIN BERGER: Objection. I don't think that  
11 question hangs together.

12 CHAIRMAN RIGLER: I don't understand the question  
13 either. I'm also having some difficulty with the hypothe-  
14 tical, particularly since we assumed that it's the tax  
15 exemption that provides the sole basis for making the smaller  
16 plant cheaper. I assume it would always be a combination  
17 of factors to be evaluated in pricing your plant. I don't  
18 see where the line is going to lead you.

19 MR. REYNOLDS: Well, we'll still have an oppor-  
20 tunity to show you I hope.

21 CHAIRMAN RIGLER: You certainly will, but if you  
22 can tell me in advance it helps me to follow where you're  
23 going and evaluate the evidence as we go along.

24 I do understand that you've argued through these  
25 proceedings that small systems can achieve all the benefits



eb2

1 that they could get through wheeling or participation by  
2 virtue of other benefits if the CAPCO companies are willing  
3 to extend them. Is that correct?

4 MR. REYNOLDS: That's right.

5 CHAIRMAN RIGLER: And it seems to me this question  
6 ties in with that line of thinking. Is that right?

7 MR. REYNOLDS: Well, this is another part. It's  
8 related to that but it's different.

9 CHAIRMAN RIGLER: Rephrase your current question.  
10 I'll listen to you for a while longer but I would like to  
11 have some indication that it's all going to tie together.

12 Off the record.

13 (Discussion off the record.)

14 CHAIRMAN RIGLER: On the record.

15 MR. REYNOLDS: To respond to your question as to  
16 where this fits in, it is Applicants' position that a small  
17 system can construct a small coal-fired facility with its  
18 tax exemption for a price which is equal to or less than the  
19 cost to the Applicants to construct a large nuclear facility.--

20 CHAIRMAN RIGLER: You mean on a per megawatt basis?

21 MR. REYNOLDS: On a per kilowatt-hour basis.

22 (Continuing) -- and that therefore the nuclear  
23 facility is not a unique resource, and just to round that  
24 out, which is not to suggest that the Applicants have any  
25 reluctance to give access to the nuclear facilities because

eb3 1 we've already made ourselves clear on that.

2 But in terms of the legal principles that the  
3 Department of Justice and the Staff seem to be relying on,  
4 it is certainly relevant and important to our case to  
5 establish the extent to which the nuclear facility is or is  
6 not a unique resource.

7 MR. SMITH: Don't you have a further point there,  
8 a related point?

9 You said that the costs would be less than the  
10 Applicants can build a nuclear facility, and if that is true  
11 wouldn't it also be true that the cost would be less than  
12 a municipal can participate? Therefore, any situation  
13 inconsistent with the antitrust laws would be attributable  
14 to the municipal's failure to build its own coal-fired  
15 small plant and not by its inability to participate in  
16 nuclear power.

17 I've said the same thing you're saying anyway  
18 but in this situation I'm putting the focus on the muni-  
19 cipal's cost and not the Applicants' cost.

20 MR. REYNOLDS: Yes, I think I agree with you,  
21 with your statement. I think we've said the same thing,  
22 but I agree with the way you stated it.

23 MR. SMITH: It is the same. If they have equal  
24 or better options open to them, then it is not a unique  
25 resource and then there is no situation inconsistent with

eb4

1 the antitrust laws related to the nuclear plants.

2 MR. REYNOLDS: Right.

3 CHAIRMAN RIGLER: Mr. Reynolds, I don't think we  
4 put the conclusion to the witness and it seems to me that a  
5 good way to tie this down in your line of questioning, one  
6 way or another, would be to ask the witness to comment upon  
7 the conclusions as stated in the assumption in the exchange  
8 between you and Mr. Smith.

9 Either he's going to agree or disagree and he  
10 can tell you why in either case, and then we can move on.

11 MR. REYNOLDS: Okay. I guess my preference would  
12 have been to have the witness out of the room for the dis-  
13 cussion and then run through the line, but that's all right,  
14 we've done it this way. Why don't we ask the witness.

15 MR. SMITH: You should be quite mindful of the  
16 conditions of the assumption, too.

17 THE WITNESS: Well, this is why I want Mr. Bloom  
18 to read it because I want to be mindful of the conclusions.  
19 It sounded like a very far-reaching conclusion and I think  
20 it was less so when you put in all the conditions.

21 CHAIRMAN RIGLER: Well, I think what he should  
22 read to you then would be Mr. Reynolds' statement to me.

23 (Whereupon, the Reporter read from the record  
24 as follows:

25 "Mr. Reynolds: To respond to your

eb5 1 question as to where this fits in, it is Appli-  
2 cants' position that a small system can construct  
3 a small coal-fired facility with its tax exemp-  
4 tion for a price which is equal to or less than  
5 the cost to the Applicants to construct a large  
6 nuclear facility,--

7 "Chairman Rigler: You mean on a per  
8 megawatt basis?

9 "Mr. Reynolds: On a per kilowatt-hour  
10 basis.

11 "(Continuing) -- and that therefore  
12 the nuclear facility is not a unique resource,  
13 and just to round that out, which is not to sug-  
14 gest that the Applicants have any reluctance to  
15 give access to the nuclear facilities because  
16 we've already made ourselves clear on that.

17 "But in terms of the legal principles  
18 that the Department of Justice and the Staff  
19 seem to be relying on, it is certainly relevant  
20 and important to our case to establish the extent  
21 to which the nuclear facility is or is not a  
22 unique resource.")

23 THE WITNESS: What was the conclusion Mr. Reynolds  
24 stated?

25 MR. REYNOLDS: The one that he just read.

eb7

1 THE WITNESS: Please state it again, if there was  
2 a conclusion there. I thought all he said was this is our  
3 position.

4 CHAIRMAN RIGLER: Take that as the conclusion.

5 THE WITNESS: I see. Now what's the question?

6 CHAIRMAN RIGLER: Can you accept that position?  
7 Does that position make sense to you? Do you agree with it?

8 THE WITNESS: Well, let me first ask him what he  
9 meant by "we have already agreed to give access."

10 CHAIRMAN RIGLER: Assume that they have made  
11 available--

12 You state it, Mr. Reynolds.

13 MR. REYNOLDS: I think really that that is not  
14 relevant to the question that the Board is asking. For  
15 purposes of what the Board is asking let's assume for a  
16 minute that access has not been given to the nuclear facility.

17 THE WITNESS: Okay.

18 There are of course some major factual questions.  
19 The first is whether in fact it is true that they could,  
20 municipals, because of their ease of getting money, the fact  
21 that they can get money at a lower rate of interest than  
22 Applicants, would get money --

23 CHAIRMAN RIGLER: That's the premise.

24 THE WITNESS: Yes. I would to point out that  
25 that is a premise but that there is a very severe factual

eb9

1 question as to the importance of it, given the economies of  
2 a 100-megawatt fossil fuel as against a 1,000-megawatt nuclear  
3 fuel.

4           The second question is even if that were true  
5 as a matter of construction, just simply the capital, as to  
6 his next factual question, that is, per kwh it would be  
7 cheaper, that is an enormous question about which there would  
8 be very grave doubt because if that were true -- now just  
9 note the implications of that. If it were true that the  
10 small steam plant could, on a kwh, simply because of a  
11 different -- let's say in terms of nine percent money as  
12 against six percent money -- be cheaper, then what that is  
13 implying is that the economies of scale have a constraint  
14 to a particular magnitude.

15           For example if we were to assume that the cost  
16 of interest were, say, 20 percent, which is a pretty large  
17 assumption, and the difference here were 33 percent, nine  
18 to six, what we're saying is there is only a six percent  
19 swing between a 100-megawatt unit and a 1,000-megawatt unit  
20 in capital cost.

21           This goes against all the --

22           CHAIRMAN RIGLER: But that's the premise.

23           THE WITNESS: Yes. But I wish to point out the  
24 things involved here.

25           Now the next thing that was not made clear was

eb9

1 whether this hypothetical steam unit was going to get all the  
2 other access. Was it going to get equal reserve sharing?  
3 Was it going to get its wheeling so that it could put to-  
4 gether the options that it needed, and so on and so forth?  
5 Was this there? That's not clear.

6           Because if you simply build a 100-megawatt steam  
7 plant and that's your largest unit, you then have to have  
8 a reserve standard of 100 megawatts down, the largest unit  
9 down. You have to have 100 megawatts reserve. If you don't  
10 get equal reserve sharing or you don't get wheeling, things  
11 of that sort, you really don't have anything on which you can  
12 base it.

13           So simply to say that they can build it cheaper  
14 and they can operate it cheaper without bringing in all these  
15 assumptions makes that proposition extremely suspect, and of  
16 course they left that open-ended.

17           MR. SMITH: That is subsumed in the assumption  
18 that the cost per kilowatt is less.

19           THE WITNESS: Then let me simply put it and state  
20 the assumption very clearly.

21           I have assumed that the 100-megawatt steam plant  
22 is so served and the price of coal and everything else,  
23 or whatever it's going to buy is such over the lifetime --  
24 the expected life of this for 30 years, and solely because  
25 of your tax advantage this thing is going to come on. We're

abl0

1 going to give you all the other things: wheeling, reserve  
2 sharing, and everything else.

3 If that is subsumed-- Now Mr. Smith says it is  
4 subsumed, and you're shaking your head and saying it is not  
5 subsumed.

6 CHAIRMAN RIGLER: I don't think the question of  
7 other services is included in the premise. The question is  
8 addressed to whether the nuclear facilities are unique as  
9 compared to other generation units.

10 Is that correct, Mr. Reynolds?

11 MR. REYNOLDS: That's correct.

12 THE WITNESS: Unique? That's not the question, if  
13 I may say so. The question is as to whether it's unique  
14 with respect to its cost-saving aspects and if you're talking  
15 about cost-saving aspects then we'd better get the assump-  
16 tions under which the two are involved.

17 If the assumption is forget about wheeling,  
18 forget about reserves, forget about anything, I've got an  
19 isolated steam plant, buy a part of it, it's cheaper than  
20 anything you fellows can do, by definition it's not unique  
21 and what's the purpose of that sort of assumptions?

22 I mean I can assume anything I want, so long as  
23 it's not inherently self-contradictory. It is not  
24 inherently self-contradictory that a steam plant of the  
25 sort that Mr. Reynolds hypothesized could produce it. It's



511

1 just a question whether those assumptions go into the real  
2 world or they don't.

3 I can assume that I can make a plant that is  
4 going to burn peanut shells. There is nothing inherently  
5 contradictory about it.

6 MR. SMITH: I am still a little bit troubled,  
7 just for neatness, that your hypothesis goes as a relation-  
8 ship between the small muni's, the small plant, and the  
9 Applicants' cost in the big plant. I still think you have  
10 sort of an imbalance there, and I think that the tendency  
11 is to answer-- I think you probably answered as if the  
12 hypothesis were the muni's cost in the big plant, not the  
13 Applicants' cost, although I think both points bear measure-  
14 ment.

15 MR. REYNOLDS: Well, Mr. Smith, --

16 MR. SMITH: I don't want to cause you any more  
17 complications but I do think it sort of dangles there at  
18 end where you're comparing the muni's low cost in the coal-  
19 fired with the Applicants' high cost in the nuclear. I  
20 think that's a valid point, but it's only part of it.

21 MR. REYNOLDS: Is your question now-- I'm not  
22 sure what you're asking me.

23 MR. SMITH: I don't even have a question. I'm  
24 just telling you that --

25 MR. REYNOLDS: I think we're looking at a

eb12 1 competitive situation.

2 MR. SMITH: Yes.

3 MR. REYNOLDS: And what we are trying to show  
4 is that within the parameters of this competitive situation  
5 that the small municipal systems are not going to be com-  
6 petitively disadvantages by virtue of the fact that they  
7 cannot get, let's say, access to the nuclear plant in the  
8 event that they can, at a lower cost, build their own coal-  
9 fired plant that will meet their needs.

10 MR. SMITH: Right. And that's a valid, arguable  
11 point.

12 My point is that there is also the other side of  
13 it which is different now upon reflection and that is when  
14 you compare the muni's cost on both the small and the large  
15 you still have an arguable point because of its own  
16 foolishness if the municipal fails to take advantage of its  
17 best options then any anticompetitive effects are attri-  
18 butable to the municipal's shortcomings and not the structure  
19 of the industry, even though they may perish in the process.

20 MR. REYNOLDS: That's right.

21 MR. SMITH: Which is a definitely different point  
22 than you raised.

23 THE WITNESS: Is this a hypothetical assuming --

24 MR. SMITH: Yes, it's all hypothetical.

25 THE WITNESS: I understand. But is this hypothetical

eb13

1 assuming, for example, that the actual rates of interest  
2 which they're comparing-- This thing is talking about some  
3 tax advantage or something of the sort, that if I built a  
4 1,000-megawatt coal-fired plant as against the same interest  
5 cost as a 1,000-megawatt nuclear plant that the coal plant  
6 is more expensive than the nuclear plant?

7 MR. SMITH: My point is simply this:

8 Let's assume the Applicants, corruptly, for the  
9 worst motives and all, denied the municipal utilities  
10 access to the nuclear power plants. And assume further that  
11 they could have helped themselves by other courses of action.  
12 It's their responsibility to do that and if they fail to  
13 it, that is a proximate cause of any anticompetitive effect.

14 THE WITNESS: Yes, I'm agreeing with that. If  
15 in fact they had alternatives that were clearly superior,  
16 if in fact they did and they were clearly superior and they  
17 were just too dumb to take it, well, that's tough.

18 But now I wanted to find out, because in testing  
19 finally whether this is inherently -- Without even going  
20 into the figures as to what it cost to build a nuclear plant  
21 or a coal plant, I just want to know whether if I build  
22 a fossil fuel plant of 1,000 megawatts, are you assuming  
23 anything as to whether it would be as efficient as a 1,000-  
24 megawatt plant nuclear, less efficient, equally efficient,  
25 more efficient, no assumptions at all? Is that it?

eb14 1 MR. SMITH: I don't think there's a question now.  
2 MR. REYNOLDS: The tables are turned now on who  
3 is asking the question and who is getting the answers.  
4 CHAIRMAN RIGLER: Right.  
5 Has the witness' response made his position clear  
6 with respect to this line of questioning?  
7 MR. REYNOLDS: I think it is as clear as we're  
8 going to get it.  
9 CHAIRMAN RIGLER: All right. Then why don't we  
10 break here for lunch and pick up with a new line after lunch.  
11 We'll be back at 2:10.  
12 (Whereupon, at 1:10 p.m., the hearing in the  
13 above-entitled matter was recessed to reconvene at  
14 2:10 p.m. the same day.)  
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LTZER/ml,

AFTERNOON SESSION

2:10 p.m.

2

3

Whereupon,

4

DR. HAROLD WEIN

5

resumed the stand, and having been previously duly sworn was further examined and testified as follows:

6

7

CHAIRMAN RIGLER: Let us proceed.

8

CROSS-EXAMINATION (Continued)

9

BY MR. REYNOLDS:

10

Q In providing access to the benefits of coordination

11

a small system by requiring any of the Applicants in this proceeding to enter into a transaction which would not result in a benefit sufficient to outweigh the transaction cost to any of the Applicants, that is that the transaction would not reap a net benefit to any of the Applicants, would you regard a refusal by any of the Applicants to engage in such a transaction to be an act inconsistent with the antitrust laws?

18

19

A If the entities desiring this access were willing

20

to pay the others the cost of their transaction costs plus whatever would be a fair rate of return involved in that and they still refused, then I would under the conditions of this case, say that it would be inconsistent.

23

24

And by benefits here I exclude what a company providing the access might consider a benefit, such as it

25

mm2

1 might increase the state of competition or such that I might  
2 not be able to sell them as much power as I ordinarily would,  
3 or that they will stay in business longer than they  
4 ordinarily would.

5 The entities which was giving access might  
6 include those as detriments, very severe detriments. I am  
7 excluding that sort of consideration.

8 Q At the bottom of page 109 and going over to the  
9 top of page 110, you indicate that:

10 "Increasing actual or potential competition  
11 between the charter members and the newcomers  
12 referring back to CAPCO is unfortunately viewed  
13 by the charter members as a cost to them."

14 What is the basis for that statement?

15 A Well I think my whole reading of testimony --  
16 after all now, I have been involved in -- this is the third  
17 case that I have been reading Dr. Pace, the third time. And  
18 I have gone through the arguments here and it seems to me  
19 that that is their view.

20 If it were not their view I could not understand  
21 the refusal. I just couldn't understand why anybody would  
22 refuse a transaction in which you would be paid all the  
23 costs that were required for you to make that transaction,  
24 plus they pay a rate of return.

25 If you refuse that, I find no other basis.

mm3

1 Now it would have been perfectly true not only  
2 in CAPCO, but some of the people in CAPCO about -- how bad  
3 it is to have public entities compete with private ones  
4 because they are subsidized, et cetera, et cetera. And it is  
5 simply this whole ambience, which is what I had in mind.

6 Q Is it your understanding Dr. Wein that any of  
7 the small municipal systems of the CAPCO area have offered  
8 to pay the transaction costs plus a reasonable return to  
9 any of the Applicants for the -- in exchange for the benefits  
10 of coordination?

11 A I don't know.

12 Q You have included in your testimony, an extended  
13 discussion of electric utility efforts to capture industrial  
14 markets.

15 Do you mean to imply that it is inappropriate for  
16 utilities to attempt to win these markets?

17 A No, not in that discussion.

18 The question is how they attempt to win them and  
19 the effects of their winning them, things of that nature.

20 Q Do you -- strike that.

21 Are you suggesting in your direct testimony that  
22 the private electric utilities have gone about the business  
23 of capturing the industrial markets in an improper manner?

24 MR. MELVIN BERGER: Can I ask what part of the  
25 testimony Mr. Reynolds is referring to?

mm4

1 MR. REYNOLDS: All right.

2 I am looking at page 59 going over to 60, 61, 62.

3 THE WITNESS: Well, I just read 59, 60 and 61 and  
4 far from historical discussion, I think what I am suggesting  
5 there is that the acquisition of these industrial plants  
6 lessen possibilities of municipals to coordinate with them.  
7 And alternatively, the acquisition of municipals lessen the  
8 possibility of industrials to coordinate with them and that  
9 the whole process was cumulative and reinforcing.

10 Now I think as I tried to argue that the standard  
11 of Section 7, and the basis of trying -- the Congressional  
12 basis of Amended Section 7, the Congressional basis was to  
13 try to halt these measures of acquisition in their incipency  
14 so that they don't tend to monopoly.

15 Now that of course is something, which if this  
16 case had gone back to 1950, and had someone attempted to  
17 challenge mergers and acquisitions both of industrials as  
18 well as municipals, it may well have presented a very  
19 interesting Section 7 question.

20 Now if your question is, is this process illegal,  
21 I don't know because it hadn't yet been litigated. This  
22 question so far as I know has not been litigated, but it seems  
23 to me as an economist I am simply giving my judgment that this  
24 was a self-reinforcing process which tended to make a  
25 competitive alternative less and less feasible.



mm5

1 Now in addition to that as I have referred to  
2 the planning documents of CEI, they obviously feel that too  
3 and they are very anxious to acquire industrial self  
4 generation. They are very much upset. I recall one  
5 document -- we hear a report public power is putting in 10  
6 megawatts. Why should that upset them? They have a program  
7 laid out for the acquisition of industrials if they can do it,  
8 very detailed, and it involved all sorts of things.

9 All this is in my testimony. But it is only in  
10 that sense in these pages that I am referring to the  
11 industrials.

12 Now I could, of course, refer you to Mr. Kampmeier's  
13 testimony on price squeezes involving industrials. That opens  
14 up another arena. It opens up the arena as to whether the  
15 industrial contracts in fact are discriminatory and whether  
16 they are based on value of service and in this sense impose  
17 a burden on all the others in an industry which is to make a  
18 particular fair rate of return.

19 I have argued that, and I am prepared to argue  
20 that. I haven't particularly mentioned it in this testimony.

21 Q Well, do you have any -- strike that.

22 Would you suggest, Dr. Wein, that there is  
23 anything inconsistent with the antitrust laws for an electric  
24 utility to seek to compete with industrial self generation  
25 in order to displace the industrial self generation by

mm6

1 providing the power more economically than the self generation  
2 could do it?

3 A Well there is a question as to whether it is  
4 discriminatory and whether, in setting rates for the industrial  
5 self generator, it is setting rates below what it would --  
6 what is required, for example, to yield a fair rate of  
7 return, and possibly even below cost. Setting rates to the  
8 industrial even below their own cost of making it and  
9 recouping the revenue by setting higher rates elsewhere. And  
10 in this manner, able to eliminate the competition of, say a  
11 municipal which is not able to do that because it doesn't  
12 operate in any different areas, or it does not have the  
13 financial strength to do so.

14 It would seem to me that setting rates below cost  
15 would be something which I would consider illegal.

16 Q Did you take a look at the industrial rates of the  
17 Applicants?

18 A Yes, I did.

19 Q I thought yesterday you said that you couldn't  
20 understand those industrial rate schedules.

21 A I did. It is very difficult.

22 Nobody can really understand them until you start  
23 to take a piece of paper and pencil and work out the different  
24 rates.

25 I note one thing, for example, that industrial

mm7

1 customers have uniform power load factors of .85. Now anybody  
2 that knows anything about this knows there is no uniform power  
3 rate -- power load factor of .85. It is going to vary from  
4 plant to plant, from industrial customer to industrial  
5 customer and so on.

6 Now insofar as this doesn't reflect the costs of  
7 the different plants, it doesn't reflect the costs which the  
8 rates are supposed to be based on, that indicates an element,  
9 for example, of discrimination.

10 Now I don't have to look at the detailed rates to  
11 know that industrial rates are quite low and that if one  
12 were to take all the considerations into account it may be  
13 that they should be higher, and maybe higher than municipal  
14 rates which are of equal volume and have other desirable  
15 characteristics such as Mr. Kampmeier pointed out. I don't  
16 want to repeat his testimony.

17 So that I don't have to study each rate to come to  
18 the conclusion that I am coming to. All I have to know is  
19 that the utility industry and the design of their rate  
20 structures are being inherently discriminatory because they  
21 have taken a rate structure design which is discriminatory  
22 even though that is approved by the regulatory commissions.

23 The mere fact that they are able to do this  
24 indicates that they have monopoly power and there is a great  
25 deal of economic testimony to indicate -- economic articles,

mn8 1 economic literature to indicate that a public utility firm  
2 operating under a regulatory constraint will find it profitable  
3 to give some customers rates at below their costs, even  
4 below their marginal costs.

5 MR. SMITH: If they have monopoly power, why do  
6 they do that? Why don't they charge as high as they can?

7 THE WITNESS: Monopoly power -- there is an economic  
8 theorem, in fact it is very similar to the lambda theorem in  
9 economic dispatch -- that if you are a monopolist you have a  
10 choice of charging a uniform monopoly rate, a uniform monopoly  
11 price, the highest price. Everybody pays that high price.

12 Or, there are different elasticities of demands  
13 within the market. You will make even more profit if you  
14 charge a different price. Thereby, people who have the  
15 least elasticity get the highest price and people who have  
16 less, they get a lower price so that the marginal revenue  
17 from all the markets are equal.

18 That would give you the maximum you could make, or  
19 the minimum you can lose.

20 It is that discriminatory structure which a  
21 discriminating monopolist would use.

22 Now, why do they -- how is it possible that they  
23 can make money by selling below cost to a particular firm,  
24 let's say an industrial?

25 That comes about, Mr. Smith --

mm9

1 MR. SMITH: That isn't exactly my question.  
2 My question is, in a given market will you  
3 have an industrial?

4 THE WITNESS: Yes.

5 MR. SMITH: Why do it?

6 THE WITNESS: Why do what?

7 MR. SMITH: Why sell for anything less than you  
8 have to?

9 THE WITNESS: Well for this reason:

10 If you are -- you see, the public utility  
11 companies, every one of them is subject to some rate of  
12 return regulation which goes over their whole system. It is  
13 not out of any particular customer. It is on the whole  
14 system.

15 If you are saying you are going to earn 9 percent,  
16 you are going to earn 9 percent and the regulatory agency  
17 doesn't look into each particular market -- though the FPC has  
18 done so in recent years, the FPC doesn't look in each  
19 particular market. Therefore, if are constrained to earn a  
20 maximum, let's say it is 8 or 9 percent, the question comes up,  
21 is it profitable for you, if you can discriminate by charging  
22 in those areas where the elasticity demand is very high, a  
23 very low price in order to make it up in another area.

24 Now the answer is yes, it would, because you can  
25 increase the rate base thereby.

mm10 1

Now I can refer you --

2

MR. SMITH: You are not exercising monopoly power  
in an area where you have a higher elasticity of demand?

3

4

5

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7

8

THE WITNESS: Oh, yes you are. You are exercising  
monopoly power, because if you didn't have monopoly power  
you couldn't take into consideration elasticity of demand of  
any particular class of customer. It is only when you have  
monopoly power that you are able to do this.

end pm-1 9

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mpbl

WRBLOOM  
PLWS  
WELTZER

1                   You have monopoly power if you sell below cost.  
2 Nobody could sell below cost if it didn't have monopoly  
3 power and was able to recoup the revenue in some other  
4 market. You do it for a particular reason. One of the  
5 reasons is that of course you could expand your rate  
6 base, simply put. The theoretical argument is a lot more  
7 complex. Another reason is you could run out on the  
8 customers who don't have that particular thing. They're  
9 not in the market you are, they're not spread all over  
10 the country or the market area that you're in, so you can  
11 run them out.

12                   I can read you the two basic propositions  
13 which this literature has formed, if you would like me to  
14 read it.

15                   MR. SMITH: No, I think you have answered.  
16 Thank you.

17                   BY MR. REYNOLDS:

18                   Q     Do you know whether any of the Applicants, Dr.  
19 Wein, have ever charged an industrial rate that is below  
20 their cost of service?

21                   A     I have not made any -- well, just a minute, now,  
22 just a minute. I shouldn't answer that that quickly.

23                   There are some numbers in here that gave me  
24 some -- made me --

25                   Q     What are you looking at?

4pb2

1 A I'll tell you when I find it. It's the  
2 Attorney General's report.

3 (Pause.)

4 Okay, I'm looking at Ohio Edison, question 11A:

5 "The Ohio Edison Company average cost  
6 bulk power supply is as follows: ...."

7 At the side of generating facilities, finally,  
8 total cost in mills per Kwh 9.32. This is for the period  
9 ending, I guess, 1973, so it's the average for 1973.

10 "At the delivery points from the  
11 primary transmission backbone system 345  
12 and 138 kv..."

13 An industrial customer will take it at most at 138  
14 kv. It isn't going to take it at 345.

15 "Total cost in mills per Kwh 1207..."

16 Now, the average, if I can look at the Ohio  
17 Edison 1973 FPC Form 1 and we'll just compare these two  
18 numbers.

19 MR. MELVIN BERGER: May we have a moment,  
20 please, to get that?

21 (Pause.)

22 THE WITNESS: My recollection is the average  
23 industrial is --

24 (Handing document to the witness.)

25 THE WITNESS: Here is something called



mpb3

1 "Commercial and Industrial Service, Water, Heating, Large  
2 Light and Power, Schedule 25A."

3 BY MR. REYNOLDS:

4 Q Where are you reading from, Dr. Wein?

5 A I'm reading from FPC Form 1 "Ohio Edison  
6 Sales of Electricity By Rate Schedules" page 414.

7 MR. MELVIN BERGER: For the record this is  
8 Exhibit NRC-165.

9 THE WITNESS: Here you have rate schedule A,  
10 the average revenue in kilowatt hours 11.9, this is also  
11 '73. At the delivery point it's 1207.

12 Here's another one. I can read it. It's  
13 industrial power 10.9; it's rate schedule 31 I believe.

14 BY MR. REYNOLDS:

15 Q I'm sorry, what schedule did you get your  
16 figures from again?

17 A Page 414.

18 Q The 1973 Ohio Edison FPC?

19 A Yes.

20 Now you must compare these rates with, of course,  
21 the other rates, residential, commercial, lighting, so  
22 there are two at least that are below the cost of Ohio  
23 Edison and its primary delivery point at 345 and 138 kv.

24 I could look through the others but these  
25 numbers struck me as I went through.

.pb4

1 Q And that's the basis, then, on which you  
2 conclude that Ohio Edison, for example, charged industrial  
3 rates below the cost of service?

4 A I've just given you two rates.

5 Q What you have given me is the basis for your  
6 conclusion?

7 A I've given you two rates in this particular  
8 instance.

9 CHAIRMAN RIGLER: To support the conclusion?

10 THE WITNESS: To support the conclusion which  
11 I made on theoretical grounds.

12 BY MR. REYNOLDS:

13 Q So the answer is yes?

14 MR. MELVIN BERGER: What is the question?

15 BY MR. REYNOLDS:

16 Q The question is whether the two rates you just  
17 pointed me to are the basis for your conclusion that  
18 Ohio Edison charges an industrial rate below its cost of  
19 service?

20 A I have given you two instances in which it has  
21 done so. I can not tell from the others, for example,  
22 because I haven't been able to get the voltages to see  
23 what it is. Some of these industrial rates are in voltages  
24 and I would have to go through and look and see what they  
25 charge at different voltages.

mpb5

1                   But that's enough, it seems to me, to give a  
2 good deal of -- to give support to the theoretical  
3 proposition.

4                   In this book it's at 345 and 138 and it's  
5 lumping them together, 12.5. Suppose they had a rate  
6 purely at 138, it's going to be higher than 12.5.

7           Q       Now, before we got into that diversion I had  
8 asked you a question you have not yet answered. Let me  
9 ask you again and get an answer to it.

10          A       I am not sure what diversion you are talking  
11 about.

12          Q       I'll ask it again. My question was whether in  
13 your view you consider it inconsistent with the antitrust  
14 laws for an electric utility to seek to compete with  
15 industrial self-generation in order to displace industrial  
16 self-generation by providing the power more economically  
17 than self-generation can do it?

18          A       I think I have answered that.

19                   MR. MELVIN BERGER: I would object to that as  
20 asked and answered.

21                   CHAIRMAN RIGLER: Sustained.

22                   BY MR. REYNOLDS:

23          Q       Have you made any studies of the rate of  
24 return allowed to electric utilities under regulation  
25 compared with the rate of return earned by most large

apb6

1 manufacturing companies capable of installing their own  
2 generation?

3 A Are you asking me did I make a study? I have  
4 seen all sorts of comparisons. I, myself, didn't make a  
5 study.

6 Q What do those comparisons show?

7 A Well, it depends on what years you are talking  
8 about. For example, if you take the period from roughly  
9 '50 to '60, say the post-war period, you will find that  
10 the rate of return for the steel industry was on the  
11 average over the decade less. That's an industry which  
12 is capable of making its own generation. It was less  
13 than that of the electric power industry, I believe, as  
14 a whole.

15 Then, during the decade from '60 to '70 I think  
16 the gap narrowed. In the steel industry and the aluminium  
17 industry, for example, it started to move up somewhat  
18 faster.

19 I don't know where that gets you, but that's  
20 about what it is, as I recall. They vary obviously. The  
21 others are very cyclical compared to the electric utilities.

2D

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2E sbl

1 Q Do you know why small municipal and small private  
2 systems didn't purchase industrial self-generation equipment  
3 of the industrial plants located in and around the environs  
4 of cities which had municipal and small systems as you  
5 indicate on page 60?

6 A I just didn't get that question.

7 Q You indicate on page 60 that many of the self-  
8 generation plants were in and around the environs of cities  
9 which had municipal and small private systems. Do you know  
10 why it is that those municipal and small private systems  
11 did not purchase the generation equipment of the industries?

12 A Why the municipal systems didn't purchase the  
13 generation equipment of the industries?

14 Q Of the industrials located in and around the  
15 environs of those cities?

16 A I'm not sure they were available for purchase  
17 in those days.

18 Q Well, how did the private utilities purchase  
19 them?

20 A Well, the private utilities purchased the whole--  
21 If you go back to the early days, which this is talking  
22 about, for example, Toledo Edison, they purchased a whole  
23 electric railroad system. They didn't just purchase the  
24 industrial equipment; they purchased the whole system. They  
25 got the load of the system; they got whatever the industrial

ab2

1 generation was in that system.

2 And then they purchased a lot of municipal systems  
3 and by doing all these sorts of things they were able to  
4 grow very much larger and therefore they were able to  
5 install larger generation equipment than small industrials  
6 were able to do.

7 But as I indicated, roughly by 1920, according  
8 to Kampbeier, you still had roughly an equal amount of  
9 industrial self-generation as against utility self-generation.  
10 In the early days you had more.

11 By now of course you have only maybe five percent  
12 of industrial self-generation compared to that. That's  
13 because you now have these very large utility companies  
14 which by accumulating all these loads over a long period of  
15 time can put in very much larger units than even the biggest  
16 of the --

17 CHAIRMAN RIGLER: But that's way off the track  
18 of the question. The question was:

19 For the industrial plants outside of the small  
20 cities, do you know why the cities didn't buy the industrial  
21 equipment?

22 THE WITNESS: He doesn't give me a time frame  
23 and the answer is even if he gave me a time frame, I wouldn't  
24 know the details of every reason why they didn't or why they  
25 did.

eb3 1 CHAIRMAN RIGLER: Okay.

2 BY MR. REYNOLDS:

3 Q And similarly you don't know the details of why  
4 the private utilities did or did not purchase certain  
5 industrial self-generation systems. Is that correct?

6 A If you mean I don't know the details of the  
7 transactions on every one of those things, --

8 Q Right.

9 A -- I submitted evidence which was stricken in  
10 this proceeding which would give you the details of the cost  
11 and that was a relevant detail for me. I didn't have to know  
12 any other detail.

13 Q Dr. Wein, at the bottom of page 61 and over to the  
14 top of page 62 you indicate that the process of acquiring  
15 industrial self-generating plants led to:

16 ". . . the capture of virtually the  
17 entire retail and wholesale markets for electri-  
18 city in many states and regions of the country by  
19 very few large private vertically integrated  
20 utility companies."

21 Would you tell us which states you had in mind,  
22 and what percentage these companies have of the total genera-  
23 tion and of the wholesale and retail markets in those states?

24 A Well, I've given those kinds of figures in the  
25 Consumers case for the State of Michigan.

eb4

1 Q You say I can find that information in your testi-  
2 mony in Consumers? Is that what you're telling me?

3 A I say I've given information-- No, not about all  
4 the states. I wasn't really concerned with all the states.

5 But if you look at it you will find that. . . .

6 (Pause.)

7 Q What is it you're looking at now, Dr. Main?

8 A I'm looking at Lindseth's speech before the EEI  
9 convention in 1965 and I'm trying to see if he has some  
10 numbers in here.

11 Q Is that the source of the information that you  
12 based your statement on that I read to you from the bottom  
13 of page 61 and carrying over to page 62?

14 A Before you asked me another question. Let me see  
15 if I can find it.

16 (Pause.)

17 MR. REYNOLDS: Mr. Chairman, could I have an  
18 answer to that question?

19 MR. MELVIN BERGER: There's a question presently  
20 pending. I think it's unfair to ask the witness a second  
21 question on top of the first one.

22 THE WITNESS: Well, let me put it this way:

23 I can't put my finger on that particular statement  
24 but we know that as of 1972 there were 405 private systems.  
25 I know from the report made in 1912 that there were many



eb5

1 thousands of them. Those 400 private systems have 77 percent  
2 approximately of the total generating capacity of the entire  
3 United States, so you have them-- Given the 50 states, you  
4 have a small number of systems which have displaced a very  
5 larger number of systems which, if you go back, say, to  
6 the turn of the century, are many thousands.

7           Essentially it's that kind of reasoning. I feel  
8 fairly sure that I could go through it state-by-state and  
9 show it may be from two to seven or eight which are the  
10 dominant systems whereas if you go back in time there are  
11 a great many others, a great many more in those states.

12           MR. REYNOLDS: I'm going to move to strike that  
13 as totally non-responsive to the question.

14           CHAIRMAN RIGLER: You asked him the source of his  
15 information. He's given it to you.

16           MR. REYNOLDS: As to the statement that he made  
17 with regard to self-generation industrial systems, that in  
18 many states and regions of the country these systems have  
19 been captured by very few large private vertically integrated  
20 utility companies. His response did not go to that at all.

21           THE WITNESS: Where is that statement I'm  
22 supposed to have made? I understood you to say-- I didn't  
23 understand the self-generating systems to be in your original  
24 question.

25           Now what statement are you referring to?

106

1 MR. REYNOLDS: I think the problem is maybe you  
2 ought to listen a little more carefully to the question.

3 BY MR. REYNOLDS:

4 Q Look at pages 61 and 62.

5 MR. MELVIN BERGER: I think Mr. Reynolds' comment  
6 is improper. I think the witness has been trying to be  
7 responsive.

8 THE WITNESS: I might add if I got some clear  
9 questions I could respond clearly, and if there weren't all  
10 that stage whispering down there I could keep my attention  
11 focused a little more clearly.

12 CHAIRMAN RIGLER: All right. That's enough.

13 You were reading, Mr. Reynolds, from --

14 MR. REYNOLDS: The bottom of 61 and carrying over  
15 to page 62.

16 CHAIRMAN RIGLER: And you say your question was  
17 posed in terms of self-generation, and Dr. Wein indicated  
18 that he did not understand the question to refer exclusively  
19 to self-generation.

20 Is that the controversy?

21 MR. REYNOLDS: I guess that's the controversy.

22 Now I will go back and restate verbatim what my  
23 question was if it will clarify things.

24 CHAIRMAN RIGLER: All right.

25 BY MR. REYNOLDS:

eb7

1 Q Dr. Wein, you indicate on the bottom of page 61  
2 and the top of page 62 that the process of acquiring indus-  
3 tiral self-generating plants led to:

4 ". . . .the capture of virtually the  
5 entire retail and wholesale markets for electri-  
6 city in many states and regions of the country by  
7 very few large private vertically integrated  
8 utility companies."

9 A Now that is of course a mischaracterization of what  
10 I've said and I should not have given you credit for saying  
11 what I thought you said.

12 My statement says:

13 "The process was initially reinforcing  
14 and cumulative, and it led to the monopolization  
15 of generation and transmission and thus the capture  
16 of virtually the entire retail and wholesale markets  
17 for electricity in many states and regions of the  
18 country by very few large private vertically inte-  
19 grated utility companies."

20 CHAIRMAN RIGLER: What process?

21 THE WITNESS: The process of acquiring-- As I  
22 said, the process of acquiring in the early days the in-  
23 dustrial plants and the process of either buying up the  
24 generation of the industrial plants. It's the whole business  
25 all put together.

eb8

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The point I'm trying to make is that this process over this entire period was cumulative and it was self-reinforcing and it led to the wholesale and retail markets being captured by a relatively few number of private companies. Now it's that that I'm trying to explain.

BY MR. REYNOLDS:

Q And which states did you have in mind?

A I've already answered that, the State of Ohio and the State of Pennsylvania amongst those, the State of Michigan; pretty nearly all the industrial states in the United States; the State of Alabama where there used to be lots of small textile mills with self-generation; there are still a few left.

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Q What is the source of the data on page 80 on which you base your assertion that industrial self generation in the service areas of the CAPCO companies has declined?

A I think I gave a long talk about that. The exploration I think was stricken. But I can give it to you.

Oh, is it still there? Well it is given there.

Q I am just asking what the source of the data was, Dr. Wein.

A Which data do you mean?

There is a lot of data there that come from different sources. Now which do you mean, all the data in the answer to Question 40?

Q On page 80.

A Yes.

Are you talking about the entire iron and steel industry?

And then I am talking about the states of Ohio and Pennsylvania, and I give you exactly -- on page 81 it says:

"The source of iron and steel production and electricity use from the Annual Statistical Reports of the American Iron and Steel Institute."

It is stated there on page 81.

Q And that is where the data came from for your conclusion with regard to the CAPCO companies?

aa2

1 A Well I explained exactly what I had done. That is  
2 where the data came from.

3 Q Is that for the other industrial self generation  
4 in addition to the steel industry in the CAPCO areas?

5 MR. MELVIN BERGER: Is what?

6 MR. REYNOLDS: The data that he has referred to  
7 at the bottom of page 81, the source.

8 MR. MELVIN BERGER: Could I have the question read  
9 back, please?

10 (Whereupon, the reporter read from the record  
11 as requested.)

12 MR. LESSY: Mr. Reynolds you never identified the  
13 lines on page 80. which you were seeking support of.  
14 I don't have the lines either.

15 What lines would that be? That might be helpful.

16 MR. REYNOLDS: Lines 9 and 10 from the top on page  
17 80. Dr. Wein has told us that industrial self generation  
18 in the service areas of the CAPCO companies has declined.  
19 Then he gives us an example with regard to the steel industry.

20 And what I am trying to find out from Dr. Wein  
21 is the source of his information which would lead him to  
22 testify in this proceeding that industrial self generation  
23 in the service areas has declined.

24 BY MR. REYNOLDS:

25 Q Can you answer that?

mm3

1 A Well the argument is right there. I can't say it  
2 any better.

3 Q All right.

4 Let's take your data for a minute, Dr. Wein. On  
5 page 80 you indicate that in 1947 the United States steel  
6 industry generated 9.2 billion kilowatt hours.

7 Is that correct? Do you see that?

8 A Yes.

9 Q And then on the same page you indicate that in  
10 1973 the United States steel industry generated 11.6 billion  
11 kilowatt hours.

12 A Well now you have got to read in between to see  
13 why that is really not an increase in the proportion. You  
14 have got to read in between, Mr. Reynolds.

15 Q So are you telling me that those figures do not  
16 represent an absolute increase in the total generation of  
17 the steel industry between 1947 and 1973 of 2.4 billion  
18 kilowatt hours, or 26 percent?

19 A Please state the question.

20 CHAIRMAN RIGLER: Well let's not waste time.  
21 Obviously they represent that, Mr. Reynolds. In absolute  
22 terms of course there is an increase. You start out with  
23 9.2 and you increase it to 11.6.

24 Now let's not waste time on it.

25

mm4

1 BY MR. REYNOLDS:

2 Q Well then I would like to know what the basis is  
3 for the statement that industrial self generation in the  
4 service areas of the CAPCO companies has declined.

5 We are given data that show that there has been  
6 an absolute increase --

7 A I will read the whole --

8 Q -- to support that there has been a decline.

9 MR. MELVIN BERGER: I will object as asked and  
10 answered by Question 40.

11 CHAIRMAN RIGLER: I am going to sustain it  
12 on the basis that the witness has stated two and three times  
13 now that he relies on the remainder of his answer in No. 40.

14 Now if your point is that steel generation alone  
15 would not account for all of the industrial generation in  
16 that area, the witness is stuck with his answer. And if the  
17 answer is defective, so be it.

18 But there is no point in arguing with him over it.  
19 You can also argue that in absolute terms the self generation  
20 in the steel industry itself let up.

21 He indicates however that it is a percentage of  
22 load. Self generation in the steel industry declined, and  
23 that is his answer. Going back and forth is not going to  
24 advance the ball. If you want to assert that he cannot support  
25 his answer to Question No. 40, yes, industrial self generation



mm5

1 in the service area of the CAPCO areas has declined. You are  
2 able to make that argument now because he has told you  
3 exactly what he relies on to support it.

4 If he doesn't have enough support, that is his  
5 problem.

6 BY MR. REYNOLDS:

7 Q Dr. Wein, did you make any analysis of CEI's pur-  
8 chase of the four 46,000 kilowatt steam generating units of  
9 the Union Carbide Company to which you refer on page 837

10 A I have made no analysis of it.

11 Q Do you know what the reason may have been for  
12 Union Carbide in selling its capacity?

13 A No, I don't.

14 Q On pages 84 and 85 of your testimony you refer to  
15 a plan by CEI to replace industrial self generation.

16 Do you have any reason to believe, Dr. Wein, that  
17 CEI, it has in any way exerted undue pressure on the industrial  
18 customer to sell whatever generation they may own?

19 A I don't know what pressure CEI has exerted on its  
20 customers, undue or otherwise.

21 Q You are not intending to suggest at page 93 of  
22 your testimony, Dr. Wein, that there is something wrong or  
23 inconsistent with the antitrust laws with Ohio Edison  
24 purchasing power from Republic Steel Corporation, or from  
25 Youngstown Sheet and Tube Company, are you?

mm6

1 A I think my testimony speaks for itself.

2 MR. REYNOLDS: Could I get a response to the question,  
3 please?

4 CHAIRMAN RIGLER: Answer the question, please.

5 THE WITNESS: I thought I had.

6 He says page 93. He doesn't tell me what on page  
7 93. All I can say is my testimony speaks for itself on page  
8 93. It is a description.

9 BY MR. REYNOLDS:

10 Q And 93 is intended as nothing more than a descrip-  
11 tive account of the purchases by the Applicants of power  
12 from certain industrial customers, is that right?

13 In other words we should not read anything more  
14 into it other than it is a narrative that you set forth?

15 A You should on page 93 read what page 93 says.  
16 It is simply describing things.

17 Now at the bottom of page 93 it is now contrasting  
18 what would be the case with an isolated generating utility,  
19 whether it could do the same sorts of things.

20 Now this is what the testimony says. It says  
21 the isolated utility couldn't quite do the same sorts of things  
22 and therefore it gets some disadvantages through isolation.

23 That is all the testimony says, and I can't  
24 say anything different.

25 Q All right.

mm7

1 At the bottom of page 97 and carrying over to  
2 page 98 of your testimony, you state, "some residential and  
3 commercial retail customers may prefer to buy interruptible  
4 power rather than firm, but the choice is never available  
5 to them since in the CAPCO service area no such rates are  
6 available."

7 What is the source of your information for that  
8 statement?

9 A ON the retail and commercial?

10 I looked through sample schedules, sample rate  
11 schedules for retail and commercial. I couldn't see any  
12 interruptible rates filed.

13 Q Why did you amend this part of your testimony?

14 A Where?

15 Q You added residential and commercial before the  
16 words "retail customers."

17 A Because an industrial, obviously, is a retail.  
18 And at this point I wasn't think of that. Some industrials  
19 have interruptible, of course.

20 Q Will you define for me what you understand to be  
21 an interruptible service?

22 A Interruptible service is service which gives you  
23 power if and when it is available. If there is an emergency  
24 on the system and you are on an interruptible schedule, you  
25 will probably be the first one to be shed.

mm8

1 Q All right.

2 And on page 93 you state correctly that Duquesne  
3 Light does offer an interruptible service rate. And also  
4 CEI has four customers with interruptible service; Union  
5 Carbide, Sabin Chemicals, Jones & Laughlin Steel and NASA.

6 MR. MELVIN BERGER: Where does that appear in  
7 the testimony?

8 BY MR. REYNOLDS:

9 Q Do you know whether that is the case, Dr. Wein?

10 A I have not examined all the interruptible rate  
11 schedules. If you tell me that is it, I am perfectly willing  
12 to accept it subject to whatever use you wish to make of it.

13 Q Do you know whether any electric utility offers  
14 an interruptible residential rate?

15 A Well I said I couldn't find any in the CAPCO  
16 schedule.

17 Q Anywhere in the United States do you know of one?

18 A I did not examine all the residential schedules  
19 in the United States.

20 CHAIRMAN RIGLER: Do you know of any?

21 THE WITNESS: I don't know of any.

22 BY MR. REYNOLDS:

23 Q Do you know of any with respect to commercial  
24 rates?

25 A No.

mm9

1 Q Do you know if such service would be technically  
2 feasible if for example only one customer on a block desired  
3 such service?

4 MR. MELVIN BERGER: Objection.

5 This seems to be getting to an engineering problem.

6 CHAIRMAN RIGLER: Overruled.

7 THE WITNESS: I am not sure whether that would be  
8 feasible or not. It would depend on the nature of the supply,  
9 how in fact the power was gotten to him. And interrupting him  
10 you might have to interrupt 50 others. So I really don't know.

11 BY MR. REYNOLDS:

12 Q Are you aware of any studies that support your  
13 suggestion that residential customers might prefer interruptible  
14 service?

15 A It doesn't have to be a study.

16 I know I would prefer some interruptible service.  
17 I don't think I am unique. I would willingly take my  
18 chances of being the first to be shed and pay much, much less  
19 for it. There might be 10,000 such people who might do that;  
20 there might be lots of commercial companies who might do that.

21 Q Do you know of any commercial customer who  
22 has ever requested a CAPCO company to provide interruptible  
23 service to it?

24 A I already said I don't know, and I never said that  
25 they did. I said they may, that is all I am saying. The

mm10 1 purpose of putting in "may" means that there may be preferences  
2 which are quite reasonable, but which are never granted  
3 because the people who ask them have no particular power in  
4 order to maintain them, in order to get what they want.

5 Q In the absence of a request for such service  
6 you would not expect to find a filed tariff rate for that  
7 service, would you?

8 A I would not expect anybody to request it if  
9 they knew all the tariffs do not have it.

end 2F

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1 MR. SMITH: Mr. Reynolds, didn't you establish  
2 this very point when the CEI studies were introduced? I  
3 guess you didn't establish it though. You cross-examined on  
4 it, showing that certain consumers in Cleveland would prefer  
5 to have less reliability and pay a lower rate for it.

6 MR. REYNOLDS: I think we're talking about some-  
7 think different than the preference for interruptible service  
8 which now seems to be the thrust of Dr. Wein's testimony.

9 THE WITNESS: Interruptible service, as I under-  
10 stand it, is a service with much less reliability. Inter-  
11 ruptible service is a class of an unreliable service. It's  
12 an instance of it.

13 BY MR. REYNOLDS:

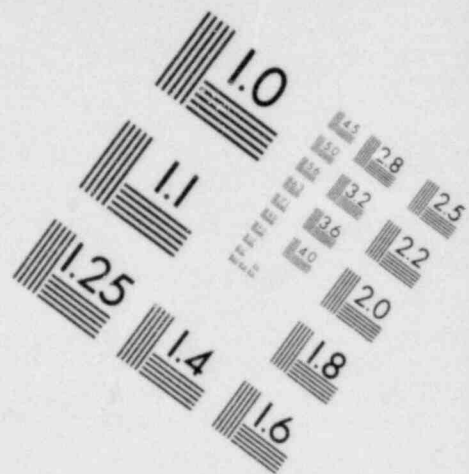
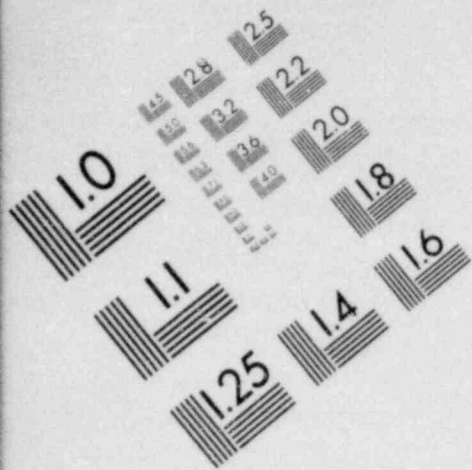
14 Q At whose option is the service interrupted, the  
15 customer's or the utility's?

16 A It's interrupted at the utility's option. The  
17 customer can't interrupt the service. He either takes it or  
18 he doesn't. He turns on a switch or he doesn't turn on a  
19 switch. He doesn't go and cut the line and open the switches  
20 or close them or anything of that sort.

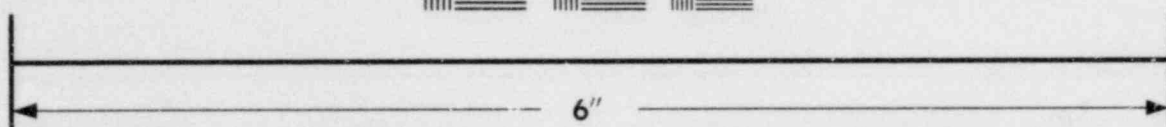
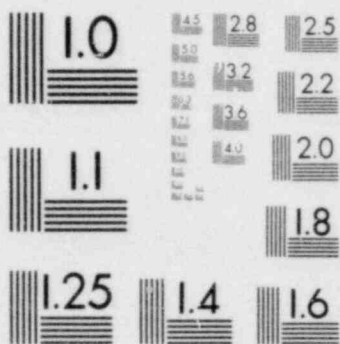
21 CHAIRMAN RIGLER: We'll take a very short break,  
22 about seven or eight minutes at the most. We're only going  
23 to run another hour.

24 (Recess.)

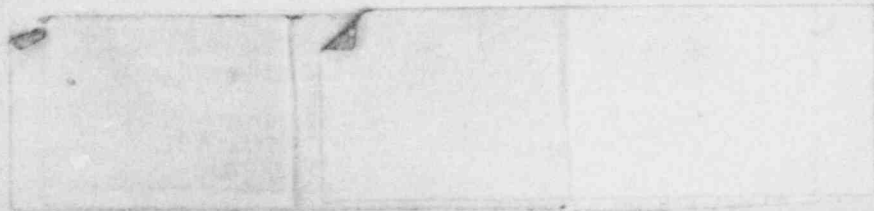
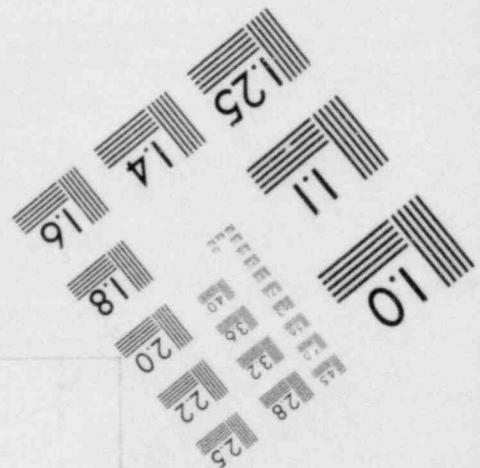
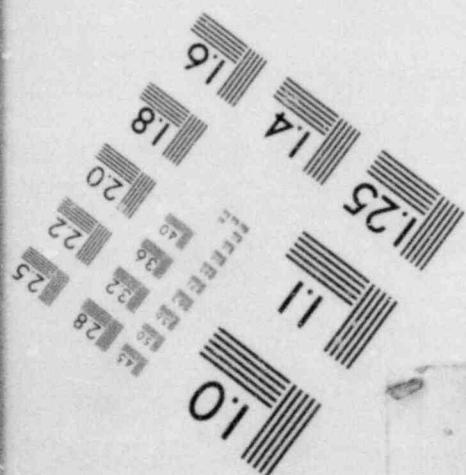
25 CHAIRMAN RIGLER: On the record.



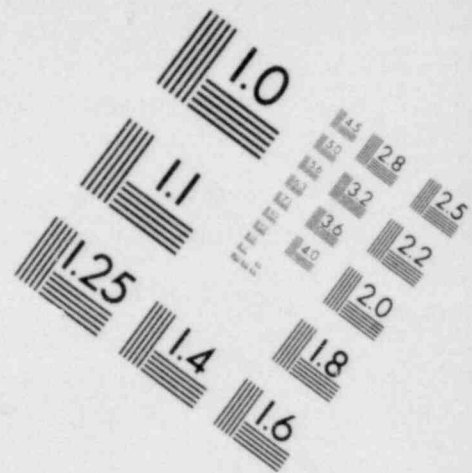
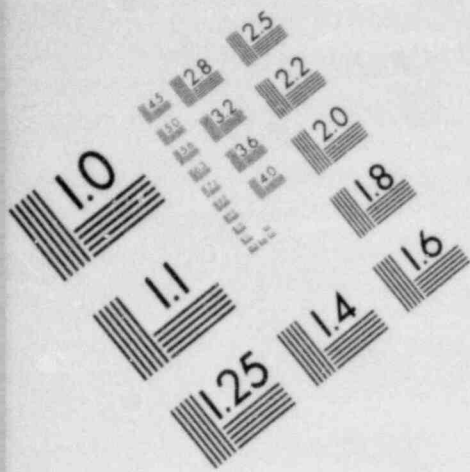
**IMAGE EVALUATION  
TEST TARGET (MT-3)**



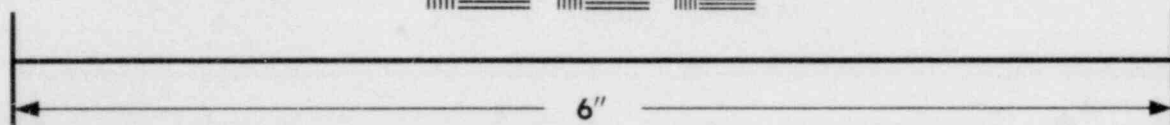
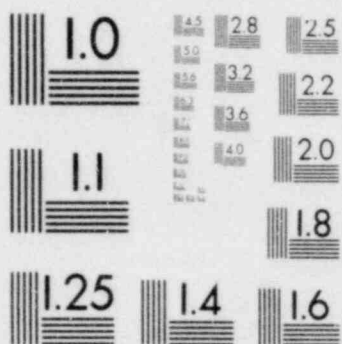
**MICROCOPY RESOLUTION TEST CHART**



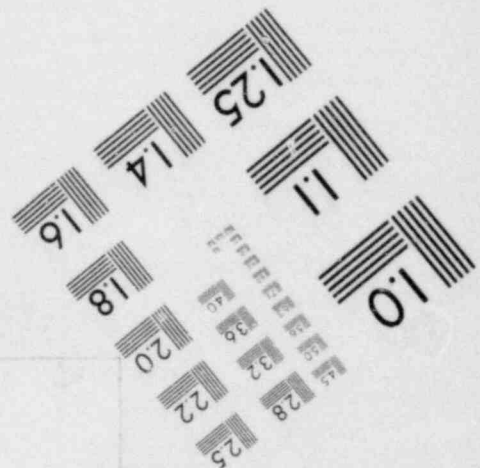
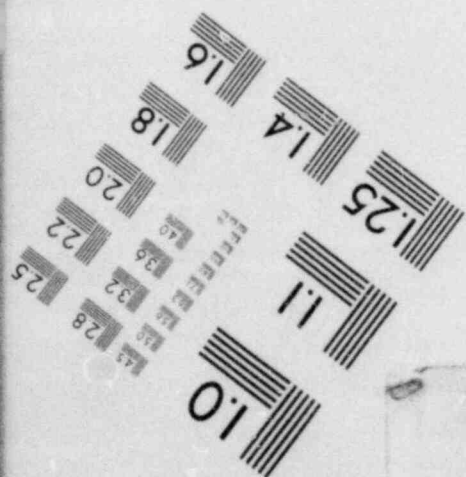




**IMAGE EVALUATION  
TEST TARGET (MT-3)**



**MICROCOPY RESOLUTION TEST CHART**



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BY MR. REYNOLDS:

Q At page 93 of your direct testimony, Dr. Wein, you made the following statements starting with the tenth line from the bottom of the page:

"Duquesne also has an interruptible service rate used by two customers in 1973, taking a total of 115 million kwh at 9.4 mills. An isolated generating utility interconnected with a self-generating industrial which had surplus power could not as economically absorb such power as an interconnected generating utility which had provision for economy interchanges and reserve sharing."

Now will you explain to me what it is that you mean when you say that the isolated generating utility could not as economically absorb such power?

A Well, what might happen there, what I had in mind as I read this thing-- Well, what I had in mind is the following, and it's right there. Let me just read it.

"The former would require curtailment of its own generation and then increasing it when the surplus power available declined or ceased."

So if an isolated self-generating utility let's say had a load of 25 million kilowatt-hours and it had to take surplus power of 20 million kilowatt-hours, it would have to operate its equipment down to 5 or it might -- and

eb3 1 that would of course entail a good deal of cost to it to  
2 start up this unit or not. It might of course be equal to  
3 25, in which case it would have to shut down completely  
4 and it would have to shut down and then it would have to  
5 start up.

6 This 25 million kilowatt-hours might be for two  
7 days or something of that sort and be a large amount of  
8 megawatts, and it would have to shut down.

9 Then one of the quid pro quo's for the purchase  
10 of surplus power from the industrial company is the provision  
11 of emergency power to the industrial when required at rates  
12 comparable to purchase of surplus power, so as a consequence,  
13 if it wanted to take that -- suppose it were 25 megawatts  
14 of surplus power. The industrial company when it needed it  
15 would want 25 megawatts of surplus power which meant that  
16 the isolated industrial would have to have the 25 megawatts  
17 to give it, which meant that it would have to keep that  
18 amount of reserve around.

19 Now if it were interconnected it could peddle  
20 that power throughout the system. Some of the other com-  
21 panies might take it at this very low rate without neces-  
22 sarily increasing the reserves which they have.

23 Q Now what does that have to do with an interruptible  
24 rate?

25 A I don't know that I'm talking about interruptible

eb4 1 rates at this point, am I?

2 Q Well, then I guess that's what confused me because  
3 as I read the two sentences that I just referenced, you go  
4 from talking about an interruptible service rate for two  
5 customers of Duquesne into the difficulty that an isolated  
6 utility might have in economically absorbing such power  
7 as an integrated generating utility.

8 A I should add another paragraph. There should  
9 have been a paragraph there. It is not intended to be part  
10 of the same discussion.

11 Q I see.

12 A I may well have had a paragraph marking but the  
13 way this was put together it may well have disappeared.

14 I think if it is possible we should correct it  
15 and put a paragraph there at page 93.

16 CHAIRMAN RIGLER: All right.

17 BY MR. REYNOLDS:

18 Q Have you read any of the contracts of any of the  
19 CAPCO companies for the purchase of power from an industrial  
20 company?

21 A Well, I did read the St. Joseph one I believe and  
22 I did read the Interlake Iron one.

23 Q Do you know what rates are in those contracts  
24 for the purchase of surplus power from the industrial?

25 A I don't remember them. They are appendix material

eb5

1

in there, and I did not particularly take note of the rate.

2

MR. MELVIN BERGER: Let the record note that when

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Dr. Wein said "in there" he was referring to the answers to

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the 20 questions for Davis-Besse 2 and 3.

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1 BY MR. REYNOLDS:

2 Q What do you mean when you say on the top of  
3 page 94 that emergency power is supplied to industrials  
4 "at rates comparable to the purchase of surplus power"?

5 A Where is that?

6 Q At the top of page 94.

7 A Well, as I recall the Interlake Iron contract  
8 I think it is the same or very similar to the St. Joe.  
9 If Toledo, for example, purchases let's say 25 megawatts  
10 for some particular period of time from Interlake Iron  
11 and let's say pays, let's say it works out to five mills  
12 a kilowatt hour. Then, when Interlake Iron needs some  
13 emergency power because some of its generation goes down  
14 it gets it from Toledo at that rate.

15 Q Do you know what the nature of the utility's  
16 obligation to supply emergency power to industrials is?  
17 Is it a firm obligation or only on an "if, as and when  
18 available" basis?

19 MR. MELVIN BERGER: Are you referring to the  
20 contracts that Dr. Wein is referring to in here or  
21 generally?

22 MR. REYNOLDS: I am referring to the ones he  
23 refers to in his testimony.

24 THE WITNESS: Well, I think in those -- I'm  
25 trying to recall. It's a long contract, but there is some

mpb2

1 notice, I believe, involved on the part of the industrial  
2 company.

3 BY MR. REYNOLDS:

4 Q I'm sorry, you are fading out.

5 A I say there is some notice required. For  
6 example, Interlake Iron might be expecting that it's going  
7 to do maintenance on some of its generation and it must  
8 give Toledo some notice about that. If it's a forced  
9 outage I believe that if Toledo has it it would give it  
10 to them. That's my recollection, but I would have to  
11 check the text.

12 Q The utility doesn't carry reserve capacity to  
13 assure its ability to provide that emergency power, does  
14 it?

15 A No because it's large enough so that it doesn't  
16 have to. If it doesn't have it it will make its best  
17 efforts to obtain it from its interconnected colleagues or  
18 elsewhere, but as I recall that's all it says about it.

19 That's also the same, as I recall, in St. Joe  
20 making best efforts.

21 Q If the private utility does not have a firm  
22 commitment to supply emergency power to the industrial  
23 and does not build capacity for that purpose, what is  
24 the basis for your statement on page 94 that:

25 "The isolated utility would be

mpb3

1 required to provide reserves for its own  
2 firm load and an additional reserve for  
3 the industrial emergency load"?

4 A Well, because an isolated utility has  
5 nothing but its own reserves for its own load and if it  
6 wishes to take advantage of this,-- Interlake Iron would  
7 not enter into a contract with an isolated utility when  
8 it knows that it can not go elsewhere and when it has  
9 only a very small amount or enough reserves for its own  
10 customer. Interlake Iron would know that it couldn't do  
11 that. So when it sold its surplus power to, say, the  
12 municipal, it's extremely chancy that the municipal would  
13 ever have enough to give it when it's down whereas it's  
14 a heck of a lot less risky, less chancy if it is interconnect--  
15 ed with Duquesne or if it is interconnected with Toledo  
16 because Toledo is very large compared to, say, St. Joseph --  
17 compared to Interlake Iron and Duquesne is very large  
18 compared to St. Joe, St. Joseph Lead Company and if  
19 they didn't have it they would make the best efforts  
20 throughout this very large system to get it. So it is  
21 certainly a lot more prudent from the point of view of  
22 the industrial to make that kind of a contract.

23 On the other hand, if the isolated were not  
24 isolated and were also on a network, that disadvantage  
25 would disappear.



mpb4

1 Q Would you expect an isolated municipal system  
2 to invest in a large enough transmission interconnection  
3 in order to provide standby capacity for an industrial  
4 let's say of 50,000 kilowatts?

5 A I don't think so. You mean five megawatts,  
6 50 megawatts?

7 Q 50 megawatts.

8 A I don't think so. It would have to be a  
9 pretty large isolation system to do it.

10 Q On page 95 you refer to the lower industrial  
11 rate which the CAPCO companies offer compared to what most  
12 of the municipal generating utilities can offer. Which  
13 CAPCO companies are you referring to with lower industrial  
14 rates than municipal generating companies can offer?

15 MR. MELVIN BERGER: Can I have a line reference  
16 or the approximate portion of the page?

17 MR. REYNOLDS: Well, it's six lines down from  
18 the top, specifically.

19 MR. MELVIN BERGER: Thank you.

20 THE WITNESS: Well, there I think I'm relying  
21 on Mr. Kampmeier's testimony. I did go through and  
22 try to, through -- through the form 1's, the rate schedules.

23 BY MR. REYNOLDS:

24 Q I am sorry, but I am not hearing you.

25 A I said I was relying on Mr. Kampmeier's

mpb5

1 testimony for that. I did, on my own, go through the  
2 rate schedules shown on the form 1 in an effort to compare  
3 the volume and the voltage of deliveries for the load  
4 delivered of the municipals as against the industrials  
5 and one might perhaps draw some inferences there. The  
6 industrials get down very close to, or in some cases  
7 lower than the municipals and that tends to suggest that  
8 these rates are lower than what the smaller municipals  
9 can offer. And then if you take into consideration the  
10 points which Mr. Kampmeier brought out about the desirability  
11 of municipal loads as against industrial loads, things of  
12 that nature, it's that sort of thing, all that put together  
13 that I'm relying on. Of course, as I've pointed out,  
14 you have a rate, two rates which I pointed out are lower  
15 than what Ohio Edison produces, the power it sells.

16 Q Did you see Mr. Kampmeier's testimony before  
17 you prepared your testimony, Dr. Wein?

18 A Yes, I've seen it. I saw it in rough draft  
19 and I had a long conversation with him on the telephone.

20 Q About this subject?

21 A About this and other subjects, yes. I was  
22 very much interested in price squeeze.

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4I

1 Q Am I correct, Dr. Wein, that you're suggesting on  
2 page 95 of your testimony that only the Municipal Electric  
3 Light Plant of the City of Cleveland of all the municipal  
4 systems in the entire CAPCO territory is capable of serving  
5 large industrial customers?

6 A Well, I think that's about right, yes. Of course  
7 "large" is a relative thing.

8 Read that question, please.

9 (Whereupon, the Reporter read from the record  
10 as requested.)

11 THE WITNESS: Yes, I said that.

12 I think you will note that on page 96 in the top  
13 third, as Mr. Kampmeier observed from analysis of rate  
14 schedules, it is pretty clear that my recollection must  
15 have been right, having seen Mr. Kampmeier's testimony  
16 before I wrote this.

17 BY MR. REYNOLDS:

18 Q Let me refer you to page 164 of your testimony  
19 for a minute, Dr. Wein.

20 In response to Question 85 in lines 18 to 21 you  
21 state that"

22 "What makes the action. . . ."

23 and there you're referring to private generation and trans-  
24 mission utilities providing wheeling services to competitive  
25 cooperatives and/or municipal systems, and you state:

eb2

1 "What makes the action suspect is that  
2 the private G&T's would still face competition  
3 from the co-op/muni's and appear on the face  
4 to have nothing to gain from their action."

5 Do you see that?

6 A Yes, I see that.

7 Q Are you implying that private G&T's get no bene-  
8 fit from wheeling power?

9 A Well, let me read the whole thing. This is a long  
10 question and I have not committed it to memory.

11 (The witness reading.)

12 Well, the answer and the question clearly states  
13 that the private companies are being paid a reasonable  
14 wheeling charge so they got the benefit of wheeling.

15 On the other hand a reasonable wheeling charge  
16 in light of this question, that's trivial in terms of what's  
17 involved. Wheeling charges are very small compared to the  
18 total cost of power.

19 So I'm saying it is suspect on its face in view  
20 of the fact that it will increase competition and I do not  
21 intend to imply that the G&T companies will not get any  
22 benefits from the wheeling. They were getting paid for the  
23 wheeling. So far as they had the capacity this additional  
24 revenue helped to that extent.

25 Given that help as against the possibilities of

eb3 1 competition that it opens up is really what I'm considering.

2 Q Let me see if I understand you, Dr. Wein.

3 It seems to me that what you're saying is that  
4 the action of the private utilities is suspect if they agree  
5 to wheel and it is also suspect if they refuse to wheel.  
6 Is that correct?

7 A No. That's not really what I'm saying.

8 Q Well, now tell me where I'm wrong.

9 A I didn't say-- To say "suspect" means to raise  
10 a question.

11 Q What kind of a question?

12 A The question is what was their intent in doing it.  
13 That's the question it would raise.

14 And the answer I said is: "The conclusion that the  
15 action was intended to foreclose some competitive feature,  
16 even though not immediately obvious, would depend on whether  
17 it fit into a pattern of past conduct, all of which had the  
18 effect of eliminating or foreclosing competition, though no  
19 one action by itself would necessarily be determinative."

20 In this case they offered to wheel. They offered  
21 to wheel under the possible alternative that here a group  
22 of co-ops and municipals were intending to build a trans-  
23 mission and generation system. At that point they offered  
24 them this alternative. Before that point-- And since I  
25 wrote the question I can tell you what I intended by it;

34

1 I don't have to speculate.

2 Before that point they hadn't. In other words,  
3 before this possibility came in that we will build a  
4 transmission line and a generating plant they were not  
5 given this particular alternative. When that alternative  
6 becomes real and the G&T company judges it to be substan-  
7 tial enough they offered them this.

8 Now then, the question is given that, does this  
9 mean that they had really intended to foreclose this other  
10 system which might have even more deleterious effects on  
11 them? And I'm saying well, that's one question, though if  
12 I knew only that I would not necessarily come to this con-  
13 clusion. This is what I'm trying to say.

14 And I'm not trying to say that if they wheel  
15 they're suspect or if they don't wheel they're suspect.

16 Q Isn't wheeling always in lieu of competing trans-  
17 mission?

18 A No, it isn't always in lieu of competing trans-  
19 mission because some companies have no competing transmission  
20 to which they can go; there's only one transmission they can  
21 use; there aren't any alternatives.

22 So a group of muni's, isolated, located in the  
23 CAPCO area, have no alternatives. There is nothing com-  
24 peting there.

25

3A 1  
mpbl 2  
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Q Don't the private G&T gain economies of scale in transmission by in effect jointly planning transmission with co-ops and munies?

A You mean if they did would they?

Q Through a wheeling transaction wouldn't they gain economies of scale in transmission?

A Wait a minute now. There are two different ideas you have in there that it seems to me are jumbled.

One, if they are planning to build a new transmission system and they took the co-ops and the munies into account, that's one question. Sure, they might.

The second question is if they wheel do they get it? No, all they get when they wheel is they've got a facility with some excess capacity and they're spreading some overhead on it. Any company gets that. That has nothing to do with economies of scale. All that says is we've got some fixed costs and some excess reserve or excess capacity. If you sell it, it's more economical to do so. That's why they are charging them a wheeling charge and that's why I explained they had benefits.

Now, which of the questions do you want to ask me? The first one or the second one?

Q Well, I think you have answered the question, so we can move on.

mph2

1 A Okay.

2 Q On page 156, lines 13 to 16, you state:

3 "....if full coordination and joint  
4 ownership of nuclear units were granted to  
5 these municipals, the strengthening of  
6 competition and market growth would, I  
7 believe, be substantial."

8 Would the result be the same in your view if  
9 a unit power purchase were provided rather than joint  
10 ownership?

11 MR. MELVIN BERGER: Is this with or without  
12 full coordination?

13 MR. REYNOLDS: With full coordination.

14 THE WITNESS: Well, I would suppose that  
15 would depend upon the nature of the unit power purchase,  
16 the terms and conditions and things of that sort.

17 MR. REYNOLDS: Let me have the answer back,  
18 please.

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

21 BY MR. REYNOLDS:

22 Q What more do you need to know about the terms  
23 of the unit power purchase, Dr. Wein, before you could sub-  
24 stitute it for the words "joint ownership" in that sentence  
25 on 156 and feel comfortable with the same conclusion?



mpb3

1           A       Well, for example, as you continually point  
2 out, a municipal, let's say, gets its funds at six  
3 percent, that's what it pays, it gets its funds at six  
4 percent but it is offered a unit power purchase at ten  
5 percent. That's not as good as buying the plant at  
6 six percent, you pay for it and get the money at six  
7 percent. Why get the power out of the plant at ten  
8 percent when you can get it at six percent? That's one  
9 term, a very obvious term.

10                   Another term might be, another thing along  
11 the same lines may be that it might happen that in some  
12 year a CAPCO company actually pays a lot of state taxes.  
13 I mean, that's possible. It is not inherently contradictory  
14 and the municipal wouldn't pay the state taxes and you  
15 roll that into the unit power. Well, that's another  
16 condition. And so on, so it really depends on these sorts  
17 of things.

18                   You might then roll in not only the state taxes  
19 but the theoretical federal taxes and that's still  
20 another condition.

21           Q       Let me ask you, excluding for a moment the  
22 question of cost differentials arising from preferential  
23 access to capital markets or due to tax treatment, would  
24 you, as an economist, have a preference for either direct  
25 ownership or unit power access?

mpb4

1 A Well, I don't think that is an economic  
2 question, I think it is a managerial question.

3 Q So as an economist is your answer no, you would  
4 have no particular preference?

5 A Well, if the hypothesis is if the price were  
6 exactly the same, so for 30 years, suppose that were the  
7 life of the plant, and I can get unit power from that  
8 plant when that plant is operating and if the plant is  
9 not operating I could get all the other conditions which  
10 we're talking about when we're talking about full coordina-  
11 tion, then presumably the price would not be different.

12 On the other hand, if I owned a plant I might  
13 have something to say about how it is maintained and how  
14 it is kept up and all that sort of thing and that would  
15 give me a little kind of managerial discretion. I might  
16 feel a little bit better about it.

17 There might be a representative sitting on the  
18 group that is running the plant.

19 CHAIRMAN RIGLER: I think we'll break here for  
20 the day. What I would like to do is excuse you, Dr. Wein,  
21 and I have a question or two about what remains to put to  
22 the Applicants.

23 For your planning purposes, we'll start tomorrow  
24 morning at 9:30.

25 (The witness temporarily excused.)

mpb5

1                   CHAIRMAN RIGLER: Have you about concluded  
2 your cross-examination, Mr. Reynolds?

3                   MR. REYNOLDS: I think we can conclude by the  
4 end of the morning tomorrow morning. I had intend at this  
5 time to move to strike the testimony of Dr. Wein appearing  
6 on pages 165 to 172 which concerns a discussion of the  
7 effectiveness of regulatory agencies in enforcing their  
8 responsibility. The basis for my motion to strike it  
9 two-fold, the first of which is that I do not believe it  
10 is the responsibility of this Commission to pass on the  
11 effectiveness or ineffectiveness of the enforcement by  
12 other regulatory agencies at either the state or the  
13 federal level. I think the discussion turns solely on  
14 the effectiveness or ineffectiveness of that enforcement.

15                   Certainly in our view it is terribly important  
16 to this proceeding whether or not the regulatory scheme  
17 or regulation does in fact exist and that is clearly an  
18 important part of our presentation.

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3B ebl<sup>1</sup>

1 On the other hand it is not, it seems to me,  
2 relevant to a determination of this Board or to any of the  
3 findings that this Board is to make whether or not other  
4 regulatory agencies are acting efficiently or effectively,  
5 ineffectively or inefficiently within their jurisdictional  
6 bounds. And I think that that is a matter that is outside  
7 the scope of this proceeding and outside the scope of this  
8 agency's responsibility under 105(c).

9 I think that that is something that falls solely  
10 within the province of the legislative branch that set up  
11 the regulation that happens to be in question.

12 Secondly, I feel that insofar as Dr. Wein is  
13 commenting generally on regulatory effectiveness that he  
14 does not have any competence of expertise in this area and  
15 is not in a position to testify on this matter in a way that  
16 is at all helpful to this Board if the Board should reach  
17 the conclusion that it should be looking at the effective-  
18 ness or ineffectiveness of the performance of other regula-  
19 tory agencies.

20 So for those two reasons I would move to strike  
21 the testimony beginning on page 165 and going over to 172.

22 CHAIRMAN RIGLER: Do you have any other untouched  
23 areas of cross-examination of the witness?

24 MR. REYNOLDS: Yes. I have some additional  
25 questions on the line that we started regarding direct

eb2

1 ownership versus unit power access. I think outside of that  
2 we're probably talking about a short number of a small  
3 number of what I would characterize as miscellaneous  
4 questions and then I would like to also ask Dr. Wein some  
5 questions with regard to the chart that he displayed in  
6 response to Mr. Hjelmfelt's questions last week and made  
7 Exhibit 596, I believe, of the Department of Justice. I  
8 do have a line of questions regarding that.

9 CHAIRMAN RIGLER: All right.

10 Mr. Berger, how much examination is the  
11 Department going to have?

12 MR. MELVIN BERGER: At this point I would anti-  
13 cipate not needing much more than one hour.

14 CHAIRMAN RIGLER: Now that we hear the areas to  
15 be explored tomorrow, I do not anticipate taking our usual  
16 half hour break between the end of the cross-examination  
17 and the redirect. I think you should be prepared, having  
18 heard four days, to proceed immediately to examine on the  
19 material covered up to this point. Obviously that would not  
20 apply to any materials tomorrow morning, but now you know  
21 where the Applicants intend to go.

22 MR. REYNOLDS: I would also, Mr. Rigler, like to  
23 make a request, another request for the study which the  
24 NRC Staff supplied to Dr. Wein that relates to kilowatt-  
25 hours flowing from the CAPCO members, and also that percent

eb3

1 of power that flows from outside the CAPCO system into --  
2 outside the system of CAPCO members into the CAPCO area.  
3 That may be relevant for some few questions in the cross-  
4 examination.

5 MR. MELVIN BERGER: Dr. Weira has found the study  
6 and I will see to it that you get it.

7 MR. REYNOLDS: Thank you.

8 CHAIRMAN RIGLER: We'll see you in the morning.

9 MR. REYNOLDS: Are you going to rule on the motion  
10 in the morning?

11 CHAIRMAN RIGLER: I'm not going to rule on it now.  
12 I'm going to re-read the pages. I'm also going to have a  
13 response from the Department.

14 MR. REYNOLDS: I would like to request, though,  
15 to the extent this discussion we've just had with Dr. Weira  
16 out of the room appears in the transcript that he not be  
17 shown that part of the transcript.

18 CHAIRMAN RIGLER: Mr. Berger?

19 MR. MELVIN BERGER: Very well.

20 CHAIRMAN RIGLER: All right.

21 (Whereupon, at 4:30 p.m., the hearing in the  
22 above-entitled matter was recessed to reconvene at  
23 9:30 a.m. the following day.)  
24  
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