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	VOLUME 3	
1	NEW JERSEY DEPARTMEN	T OF ENERGY
	BOARD OF PUBLIC (	JTILITIES
2	NEWARK, NEW JERSEY FRI	DAY, AUGUST 22, 1980
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4	the Potition of )	- 2013년 1월 28일 전 28일
	In the Matter of the Petition of ) Jersey Central Power & Light Com- )	ONL DOCKET NO.
5	pany for approval of an increase )	PUC 3518-80
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0	and for amendment to the Levelized)	BPU DOCKET NO.
7	Energy Adjustment Clause and fac- )	304-203
	tor for such service.	807-438
8	)	집안은 것은 것도 같이 없다. 것이 없는 것이 없다.
1.12	BEFORE: STEPHEN G. MA	DEWALL, ESO
9	BEFORE: STEPHEN G. HA Administrativ	a Law Judge
	Aundrits and a	
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		그는 것은 것을 많은 것이 같이 많이 없다.
11	APPEARANCES:	말 집 것 같은 것 같아요. 이 것 같아.
12		abas 1 Power
	For the Petition r, Jersey Ce	entral Power
13	& Light Company, appears:	레이 그 것 이 가 같은 것 같은 물질값
	KIRSTEN, FRIEDMAN & CI	HERIN, ESQS.,
14	BY: JACK B. KIRSTEN,	ESQ., and
	DOLORES DELABAR,	ESQ.,
15	17 Academy Street	
	Nowark, New Jersey	
16		
17	and	
.,	WILLIAM F. HYLAND, ES	O., of Counsel
18	JAMES B. LIBERMAN, ES	O., of Counsel
	JAMES D. DIDDRING, DO	All and the second s
19	For Department of Public Adv	ocate,
	Division of Rate Counsel, ap	pears:
20		
	ALFRED L. NARDELLI, E	:SQ.,
21	Deputy Director	
22	RAYMOND MAKUL, ESQ.,	O DE
22	pepuel	
23	10 Commerce Court Newark, New Jersey	POOR QUALITY PAGES
	NEWALK, NEW DELSEY	
24	J. H. J	BUERRER &
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25	5 Newark	, New Jerse
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PENCAD CO., BAYONNE, N.J.

1	APPEARANCES: (Continued)
2	For the Staff of the Board of Public Utilities, appears:
3	CARLA VIVIAN BELLO, ESQ.,
4	Deputy Attorney General
5	I. PAUL SLEVIN, Supervising Rate Analyst
6	2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
7	For the Board of Chosen Freeholders of Ocean Coyaty, appear:
8	BERRY, SUMMERILL, PISCAL, KAGAN & PRIVETERA, ESQS.
9	BY: JOHN C. SAHRADNIK, ESQ.,
10	34 Washington Street Toms River, New Jersey
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PENGAD CO., BAYDNNE, N.J. UT042 . FORM 2048

JUDGE MARSHALL: Good morning, ladies 1 and gentlemen. This is a continued hearing 2 in the matter of the Patition of Jersey Cantral 3 Powar & Light Company, OAL Docket No. PUC 4 3518-80, with the Board Docket Nos. 804-285 5 6 and 304-488. My name is Stephen Marshall. I am the 7 8 Presiding Administrative Law Judge. 9 May I have the appearances of the 10 parties. MR. KIRSTEN: Jack B. Kirsten and 11 Dolores Delabar, Kirsten, Friedman & Cherin, 12 attorneys for the Petitioner, Jersey Central 13 Power and Light Company, Mr. James B. Lieberman 14 and William F. Hyland, of Counsel. 15 MS. BELLO: Carla Vivian Bello, Deputy 16 Attorney General, for the Board of Public 17 18 Utilities. MR. MAKUL: Raymond Makul and Alfred 19 Nardelli, with the Department of Public 20 21 Advocate. MR. SAHRADNIK: John C. Sahradnik, of 22 the firm of Berry, Summerill, Fiscal, Kagen & 23 Privatera, for the County of Ocean. 24 25

1	JUDGE MARSHALL: Before we proceed to
2	the witnesses, are there any housekeeping
3	metters the parties want to bring upy
4	(No response.)
5	JUDDE MARSHALL: I would like to make
6	a mention of the fact I believe one of the
7	parties told me at last night's hearing I made
8	a reference to the upcoming Sparta hearing
9	which is scheduled for Monday evening.
10	I believe I may have made a mistake in
11	stating the time during one of my statements,
12	that I may have seld that it was Tussday rather
13	than Monday.
14	I will note for the record that it's
15	scheduled for Monday evening at 7:30. Okay.
16	Shall we then proceed with the presentation of
17	Mr. Kirsten's witnesses?
18	MR. KIRSTEN: Thank you, sir. I just
19	wanted to interrupt the examination of Mr.
20	Steger for a moment. I thought it would be
21	appropriate at the beginning of the day today.
22	Mr. Gentieu has some updated information
23	which he'd like to refer to. Ir. Sentieu is
24	previously sworn.
25	

PENGAG CO., BAYONNE, N.J. 07902 . FORM 2046

1	LAWRENCE P. GENTIEU, previously sworn
2	on behalf of the Petitioner, resumes the
3	stand.
4	DIRECT EXAMINATION (CONTINUED)
5	BY MR. KIRSTEN:
6	Q Mr. Gentieu, would you proceed.
7	A Yes. My purpose in leading off this morning
8	is to enable Mr. Steger to be finished with his testimony
9	and cross-examination today, and in order to do that we need
10	to start off by discussing the background of two signifi-
11	cant adjustments that we made to the filing, adjustments
12	that at a discovery meeting held at GPU, we were asked to
13	have confirmed by runs of GPU's production cost program
14	which is a computer dispatch program that essentially bot-
15	tles not only Jersey Central's generation as well as GPU's,
16	but the generation of the entire PJM interconnection with
17	which GPU is interconnected.
18	Eccause this is on the computer, that makes
19	it feasible to deal with this many units. The two adjust-
20	ments involved were the sales adjustment, and if you'll
21	refer first to Exhibit JCA, Page 3, this page summarizes
	not dust the seles but old adjustments us made to the

not just the sales but all adjustments we made to the
budgeted energy costs that formed the basis of the LEAC
filing, but the one that we're interested in appears in the
second column of Page 3, an adjustment to reduce our budgeted

0., BAYONNE, N.J. 07002 . FORM 20.

sales by 468 gigawatt hours.

Mr. Raber would be testifying as to the de-tails of that adjustment, why it was made and the assump-tions that underly the amount. What was then done, given that sales adjustment, that leads to obviously a reduction in our energy costs because with the lower sales it will be a lower generation, lower interchange, and so forth, and you see the effect on LEAC. Energy costs of the sales ad-justment in Column 6 where we estimated that adjustment would lead to a 22.2 million reduction in LEAC period energy costs.

FORM 2048

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CO., BAYDNNE.

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1	A (Continuing) In response to a data request
2	of us asking for the derivation of that adjustment, we
3	supplied Exhibit A-5, and if we can turn to that for just
4	a moment, I think the exhibit is basically self-explanatory,
5	but I think in a few sentences it may not hurt to recap the
6	method we employed to make the sales adjustment.
7	The first thing to note with respect
8	to sales is that short-term changes in sales do not affect
9	base load generation, and by base load generation in Jersey
10	Central's case, we mean Keystone, Oyster Creek and TMI when
11	it would return to service. Those units will run regardless
12	of the level of sales.
13	The only factor that affects their
14	operations are scheduled maintenance outages or unforeseen
15	forced outages.
16	JUDGE MARSHALL: Excuse me. Off the
17	record.
18	(Whereupon, there was an off the
19	record discussion.)
20	JUDGE MARSHALL: Back on the record.
21	Please continue.
22	THE WITNESS: Once you exclude Lase
23	generation on the basis that it simply is
24	not affected by sales in the short run,
25	cbviously, 20 years from now when the sales

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would, for example, continue to grow, we would at that point have more base load generation because they're a long-range consideration.

Right now short actual swings in sales won't affect base generation. That means in the intermediate peaking and purchase power are the sources that are affected in the short term by sales, and for purposes of making our adjustment, we assume that all of the sales change would affect Jersey Central's interchange and rurchase power.

If you turn to page 2 of A-5, that shows a sample calculation illustrating the method and I think a reading of that page will explain the method in detail.

The end result is for the month of July. The sales adjustment that we assumed was first converted to equivalent net system requirement. The sales adjustment was 49 gigawatt hours. The equivalent energy required to be produced or associated with that amount of sales is 55 gigawatt hours. That then was assumed in this case; it was a reduction, and we assume that that reduction in energy requirements would lead to reduce PJM and GPU inter-

GAD CO., BAYONNE, N.J. 07002 . FOMM 2046

change purchases, reduce over energy purchases, that is, the non-PJM purchases like Jamastown, AEP and so forth, and finally, the reduced sales would lead to increased sales of interchange all in the same ratios and at the same rates as were forecasted before the adjustment.

Very simply, that assumption, if you take the weighted average cost of those three components and apply it to the gigawatt hour reduction, very simply yields the adjustment of that, in this case, the 55 gigawatt hours of NSR times the weighted rate of purchases and sales of 37 mils yields the sales reduction of 2.0 mils and that's the figure appearing on this page 3 of JC-A.

PENGAD CO., & YONNE, N.J. 97002 . FORM 2046

THE WITNESS: (Continued.) The next
page, Page 3, two pages, 3 and 4, simply re-
peats that calculation in an abbreviated form
for the remaining months of the LEAC period,
the end result to the 12 months of August,
you see the last figure on the pages 22.2
million. That effectively prices or is the
result of having priced the NSR reduction
equivalent to the sales at 43.5 mils.
At the discovery meeting at GPU, we
were asked to confirm the reasonableness of
this method by running a computer study using
the production cost program or the PCP that I
mentioned earlier, and that was done very
simply by using the 3 plus 9 budget, which was
the basic budget for the filing at the budgeted
level of sales running the program for the LEAC
period 12 months August. Normally the program
runs on a calendar year, or let me more pre-
cisely, it also runs on a calendar year so we
had to do a little bit of manipulation to get
this non-calendar year period but nevertheless
that was done, so it was run for the 12 months
August at the budgeted level of sales and then
run a second time at a level of NSR, actually

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about 500 gigawatt hours lower, and the two runs wore just simply compared, the end result of that was the production cost program yield and energy cost reduction of 25.4 mile be compared to the 22.2 mile that we estimated manually and that if there would be further questions as to the mechanics of the FUP run, Bob Steger would address those.

323.

That is, I think, all we need to say on the sales adjustment.

The next adjustment, not really an adjustment, but an assumption that we made as to the sensitivity of Jersey Central's energy cost to changes in oil cost.

If you recall, again if you refer back to JCA, Page 14, we did in the initial filing as part of the basic exhibits that summarized our forecasted energy cost, namely, JCA, we included a description of some major variables that could substantially affect the forecast. They are described on Fages 14 and 15 of JCA.

Under the section denoted oil prices appears this statement: "It is estimated that for each il per barrel change in oil prices Jersey Central's LEAC period energy cost would

0 CO., BAYONNE, N.J. 07001 . FORM 2044

change by about 6 mils. This estimate is preliminary and is significantly affected by the assumed level of Jersey Central's power purchases outside PJM which are largely coalfired in sort."



FORM 2046 1.1. PENGAD CO., BAYONNE.

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1	THE WITNESS: (Continuing.) We were
2	asked at one of our discovery meetings to con-
3	firm the 6 million per year estimate with a
4	similar production cost program study and that
5	was done,
6	Before we go to the results of that,
7	however, I want to review how we arrived at
8	the admittedly simple and with a manual esti-
9	mate of the 6 million which we did denote was
10	preliminary, and to do that, if we could refer
11	to Page 8 of JCA, that particular page simply
12	summarizes for the LEAC period the 12-month
13	totals of the various sources of energy,
14	nuclear, coal, oil and gas interchange, other
15	purchased power and so forth, and it's useful
16	as a reference to very commonsensically look
17	down the list and see what is affected by oil
18	and what is not, and obviously nuclear is un-
19	affected.
20	Oyster Creek and TMI-1, there is a small
21	amount of incidental 1 that is burned at
22	those stations, but for all practical purposes
23	that's insignificant.
24	Keystone, the same is true there. There
25	is start-off oil used at Keystone, similar to

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more oil there than at the nuclear stations, but nevertheless Keystone, obviously being a coal unit, is not terribly affected by increases in oil prices.

326.

The next section, oil and gas, is Jersey Central's intermediate and peaking capacity, most of which was oil-fired.

The costs shown on this sheet, however, on the summary, do not break down the gas and the oil but a later exhibit does.

The pump storage obviously is not involved. Then we go to interchange and purchased power. There we as ume that all of the PJM purchases would be oil-fired and source.

We assumed none of the GFU purchases would be oil fired, and I think that the reasonableness of that -- although it's probably not 100 percent true -- is borne out by the differential rates.

If you see -- I'll refer to the sheet -the PJM interchange is at 66 mils. The GPU is at 29.

With respect to the interchange sales, we assumed that the sales to PJM -- for a

0 CQ., BAYONNE, N.J. 07002 - FORM 2046

1 reason I'll explain in a moment -- were two-2 thirds oil and one-third coal. IPU sales we 3 acsumed to be all coal. 4 Under other energy purchases, obviously 5 APS is all coal. AEP and West we assume to 6 be all coal, as we did for Jamestown and 7 Ontario Hydro. FFaL obvicusly is all oil, 8 as is Central Hudson. 9 The Salem purchase, as was discussed 10 yesterday, although we are buying energy 11 equivalent to the Salen output, which Salen 12 is a nuclear unit, the energy is priced at 13 95 percent of the running rate. 14 The running rate in turn reflects to a 15 large degree the cost of oil-fired sources, 16 not all but predominently as seen by the rate, 17 at least, we have assumed in the budget. There 18 is a heavy oil component there because this is 19 base load generation; however, the characteris-20 tic of that is that it's produced 24 hours a 21 day, seven days a week, for as many weeks as 22 the unit is able to run before encountering 23 either a forced or maintenance outage. 24 So, this clearly is an average running 25 rate that we're talking about as opposed to,

say, on-peak rate, and there we simply assumed again that there would be a weighting of coal and oil involved here, and the weighting we simply used was one-third coal, two-thirds oil, and how we got that again was very simple.



THE WITNESS: (Continuing.) If you assume that you're largoly buying coal in the off-peak hours at night and on the wookends, you'll find that about 40 percent of your energy would come from coal under that simple assumption, but coal has a significantly lower price than oil, so the cost would not necessarily be 40 percent.

Recognizing that, we just simply used a third as the coal component.

I hope this has not been an unnecessarily complicated or detailed explanation, but in view of the potential significance of the oil pricing in this proceeding, I think it is well that we examine the impace of the oil assumptions on the total energy cost picture, and that's why I'm going through this in detail.

So, with that as background, I can review now how we got to the 6 million.

JUDGE MARSHALL: Excuse me. Off the record a moment.

(A discussion was held off the record.) JUDGE MARSHALL: Back on the record. THE WITNESS: I would defer to Bob Steger

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on the explanation of the PCP. I think he's better qualified than me.

MR. MAKUL: Okay.

THE WIINESS: Then returning to the oil sensitivity analysis, if you'll turn to Exhibit A-3, this exhibit simply shows for the LEAC period a rather detailed breakdown of the oil costs and quantities that were budgeted for the LEAC period, that's the top half or the page, and the second half of the page, I'm on Page 2, incidentally, 8.3, the second half of the page reflects the oil costs after we made our gas adjustments.

We did make a significant adjustment on the assumption of increased availability of natural gas which would replace oil. The effects of that are also shown on the sheet.

In making our 6 million estimate, however, we used -- if you'll look at the nextto-the-last column, the top half of the page -the total cost of oil, this is Jersey Central internal generation, now, for the LEAC period was budgeted to be \$130 million.

If you'll recall, just to try to the all these schedules together, JCA, Page 2, we

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show for total oil and gas 145 million. The difference between that and the 130 million is just simply that A.3 is oil only, 50A summary page is oil and gas, just to svoid confusion.

331.

So, in making our 6 million estimate, the first thing we did was to say clearly the cost of internal -- the oil cost of internal generation would be very simply increased or decreased, depending on the price of oil assumed.

The unadjusted oil cost per barrel that we assume in the LEAC filing was \$37.50. That shows on this sheet as well as 37.54.

A \$1 per barrel increase in that cost or going to 38.50 is a 2.7 percent increase.

We then -- I might point out right now, in error -- applied the 2.7 increase to the 130 million of budgeted oil cost, yielding an increase of 3.5 million.

I say that was done in error because it should have been applied to the lower set of figures reflecting the gas adjustment which you'll see in the same column of figures is \$80 million, on Exhibit A.3. I will return to that in a moment.

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If

1	THE WITNESS: (Continuing) In any
2	event, we neglected to looking at our
3	internal oil we neglected to reflect the
4	gas reduction.
5	So, for internal oil we came up with
6	an increase of 3.5 million that should have
7	been 2.2 million, namely, 2.7 percent of 80
8	million rather than 2.7 percent of 130 million.
9	The next thing we did, if you can re-
10	turn to JCA, page 8, the cost of the PP&L
11	purchase, Martin's Creek, I'm locking at 12
12	months ended August, it's the third column
13	from the end on page 8 of JCA, the FP&L cost
14	to the PPaL, which obviously is all oil, is
15	17 million.
16	The Central Hudson is 14 million. The
17	total of those two is 31 million and 2.7 per-
18	cent of that is .8 million.
19	The PJM purchases, again on the same
20	page, are 23 million, 22,650,000. 2.7 percent
21	of 23 million is .6 million.
22	The PJM sales, I mentioned we assumed
23	were two-thirds oil, one-third coal. Largely
24	we're assuming, as Mr. Steger testified to
25	yesterday, that they'rs largely as a result
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	Gentieu-diract 555
1	of reselling the Salem energy.
2	Under that assumption, in increase there
3	leads to an increase in revenue, if you will,
4	of .3 million.
5	That's an offset. That's simply 44
6	million of sales times two-thirds, times .027
7	is an increase in receipts of .8 million.
8	In other words, as cil costs go up we
9	make more money on interchange sales.
10	The last element was the Salem purchase,
11	133 million. Again, we assumed that the under-
12	lying sources that gave rise to that cost were
13	a mixture of coal and oil and their ratio is
14	two-thirds oil, one-third coal, and again using
15	the 2.7 increase, due to the one dollar per
16	barrel change, and reflecting the 95 percent
17	running rate adjustment that the contract
18	calls for, the Salem costs would be increased
19	by 2.3 million for a dollar per barrel increase
20	in oil.
21	Adding those up, those figures I just
22	recited, yields a total of 6.4 million, and we
23	rounded that to be conservative to 6 million.
24	However, I mentioned that in calculating our
25	inter al oil component we did that before
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reflecting the gas adjustment in error.

If you corract that error, namely, apply our 2.7 increase factor to 30 million of internal oil rather than 130, the 6.4 should be reduced by 1.3, and after correction then would become 5.1.

So, the manual procedure with its associated simplistic assumptions that I just discussed after correction would indicate that Jersey Central's energy costs are effected on an annual basis to the tune of \$5 million for each dollar per barrel change in the cost of oil.

With that elaborate background, we're now in a position to go to the PCP study to see what it showed, given the same question, namely, for the LEAC period, if you increase, decrease, the same would be true, the oil price assumption by a dollar per barrel, what is the effect of that.

I will, just as I did with respect to the sales adjustment, I will simply give the end result and then depend on Mr. Steger for detailed support.

That study showed a 3.9 million or

let's call it 4 million sensitivity compared to the 5 million that we estimated manually, the 5 million being the corrected manual estimate that corresponds to the 6 million that we originally indicated in the filing material.

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THE WITNESS: (Continuing.) I might point out before Mr. Steger comes back up, in both cases the PCP estimates used only data as budget. It did not in any way try to mirror the rest of the adjustments that we made to the forecast for the LEAC filing purposes, most significantly the gas which also yielded about a 20-plus million reduction. That adjustment was not reflected in the PCP runs and, for example, one would expect that if it had been, the 26.4 million sales adjustment would presumably have been something other than that and probably lower.

336.

The similar consideration would apply to the oil estimate. All of those things are inter-related.

I mention the gas adjustment simply because that is one that we made in the filing but to the extent that you would assume other adjustments beyond the gas, i.e. differing Oyster Creek availability, when you do that there is a definite impact on all of the other sources, purchase power, short-term power purchases.

If you made further sales adjustment,

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they certainly have an inter-related effect; so just to be careful on that point, you cannot look at a single adjustment in isolation in that they're all inter-related and the estimates that the PCP came up with should be kept in mind just based on our original budget assumptions.

I think, then, with that necessary background, unless there are questions of me, we could have Bob resume the stand to pick up where he left off yesterday, and then raview the PCP runs that were made to yield the adjustments I just referred to.

JUDGE MARSHALL: We have not been on the record for a full hour yet. If the parties went to take a break --

MR. MAKUL: That might be appropriate because with the numbers it might be necsssary to have a pow-wow and I would like to have some numbers read back to me and it could be off the record.

JUDGE MARSHALL: We will go off the record for ten minutes now, or longer, if the parties need it.

(Whereupon, a recess was taken.)

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1	Gentieu - direct 338
1	JUDGE MARSHALL: Back on the record.
2	Mr. Kirsten, do you wish to present the next
3	witness?
4	MR. KIRSTEN: Mr. Steger has resumed
5	the stand and he's been previously sworn.
6	JUDGE MARSHALL: OKRY.
7	ROBERT STEGER, previously sworn on behalf of
	Petitioner, resumes the stand.
9 10	DIRECT EXAMINATION BY MR. RIRSTEN:
11	g Mr. Steger, during the testimony of Mr.
12	Gentieu this morning referring to the PCP program, he sug-
13	gested you would be in a better position to explain how
14	that works. Could you do that now?
15	A Yes. A brief explanation of the PCP or pro-
16	duction cost program which is used to make several of the
17	studies used in this and other cases is the program is
`18	developed by PJM and essentially a model of the PJM system.
19	It includes each of the units on PJM
20	and their associated costs and also their associated forced
21	and planned outages.
22	It also includes a load model for PJM
23	and GPU and the program essentially on an hourly basis
24	matches the load for the hour with the required generation,
25	dispatching the cheapest generation first.

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PENGAD CO., BATONNE.

F2	Steger - direct 339
1	Then it calculates the interchange be-
2	tween companies and prices the sales of the long company
3	and the purchases of the short company.
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## Steger - direct

A (Continuing) And printouts as a monthly or annual total. Also, in doing this calculation it calculates the running rate and also prints that out as either a monthly or annual total so it is essentially what is a program that can go through and model the PJM system as it would be dispatched in actual practice subject to the assumptions made on the input of the program.

8 Q Now, one other item, Mr. Steger. You were 9 asked if you could produce a 1978 estimate of the 1979 PJM 10 running rate?

A That's right. I was asked that yesterday and I checked with my staff last evening. The 1979 budget running rate which was requested was made in late 1978. Those back-up documents have since been destroyed and we do not have them.

Mr. Steger, you've prepared a document, and 0 16 I apologize for the fact that it has not been typed up but 17 in our efforts to do it quickly, we made copies of the hand-18 written document. It is labeled Response to Public Advo-19 cate's Data Raquest made at Hearing on August 21, 1981. 20 The response to the request was "What is the effect on the 21 Jersey Central LEAC of basing the pricing of the PE Salem 22 purchase on the PJM estimated running rate rather than the 23 GPU estimated running rate?" Did you prepare that response? 24 I prepared it, yes. A

G2	Steger - direct 341
1	Q Obtained in this exhibit?
2	A Yes, I did.
3	MR. KIRSTEN: May I have this exhibit
4	marked for identification, sir, as Exhibit
5	JCH.1?
6	JUDGE MARSHALL: If there are no objec-
7	tions, it will be so marked.
8	MR. KIRSTEN: There are three pages for
9	identification. Thank you, sir.
10	(Whereupon, a three page document, a
.11	Response to Public Advocate's Data Request
12	made at Rearing on August 21, 1980 was marked
13	JC-H.1 for identification.)
14	MR. KIRSTEN: Mr. Steger is available
15	for cross-examination.
16	JUDGE MARSHALL: Off the record.
17	(Whereupon, there was an off the record
18	discussion.)
19	JUDGE MARSHALL: Back on the record.
20	CONTINUED CROSS EXAMINATION
21	BY MR. MAKUL:
22	Q Good morning, Mr. Steger.
23	A Good morning.
24	Q With regard to the running of the PJM program,
25	this model produced costs of all the units in PJM?

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G3 -	Steger - cross 342
	A That's right.
1	Q And I imagine one of the inputs, assumptions
2	that has to be made is what the cost of fuel will be at those
3	units, each of those units?
4	A Yes, that's correct.
5	Q In the PJM system, sere are companies that
6	are located, I believe, in Penr /lvania, New Jersey, Mary-
7	land, Delaware, District of Columbia and portions of northern
8	Virginia?
9	A That's correct.
10	Q Did I miss any of them?
11	A I believe that's all.
12	Q I wonder if you can tell me about those
13	units, the oil-fired units, what is the sulfur limitation
14	on a state by state or area by area basis on the oil that
15	is being burned?
16	A I know that the sulfur limitations differ
17	from state to state. I don't know what they are in any
18	
19	particular place.
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PENGAD CO., BAYONNE, N.J. 07002 - FORM 2045

Steger-cross

Q How would you agree that based on your experience that the price of high sulphur oil is many times, in fact almost at all times different than the price of low sulphur oil?

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A It has been my experience that that price differential exists.

Q How do you know then if you don't know what the sulphur limitations are, where do you get the input data from to ascertain the fuel price at each oil-fired unit?

A Each of the PJM units has its base data input by the Company in that it owns it. If a company owns a unit that company puts in all of the base data, including the current cost of oil on that unit; so I do not need to know the type of oil it burns. I only need to know that the Company that owns it gave me a price for what they are paying for the oil.

Q Part of the PCP run that was made with respect to the effect of conservation and other reductions in sales and the effect on fuel costs, assumptions had to be made as to what time of day or time of week conservation occurred, and I wonder if you could briefly outline what assumptions were made in reducing the level of sales from the forecast?

Since we did not know when the sales reductions

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. BATONNE, N.J. 07002 - FORM

Steger-cross 344. would take place, we made a broad assumption, it was re-1 duced equally in each hour of the year. 2 By equally, do you mean the same number of 3 Q megawatts per hour or that the sales were reduced by the 4 same percentage? 5 A By the same percentage each hour. 6 7 Mr. Steger, if the PJM running rates were Q 8 lower than what you used in running the PCP program as an 9 input assumption --First of all, we do not input the running 10 A rate. The running rate is an output from the program. 11 12 If the fuel cost of the various units which Q control the running rates were lower than what you use for 13 purposes of running the PCP program, I see that Central 14 Hudson, at least in the 1981 period, gets dispatched in and 15 out of the system. In other words, it is not coming in all 16 the time and I believe you said yesterday that was an economic 17 dispatch reason why the level of sales was increasing; is 18 19 that correct? 20 That's correct. A 21 22 23 24 25

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Steger-cross

You assumed that the prices of fuels were Q lower at the PJM generators. What would that do in terms 2 of the amount of the gigawatt hours that would have to be 3 provided from Central Hudson? 4

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It would depend on how the assumption was made. 5 A If we get back to the assumptions for just a moment, we as-6 sume that each Company's current oil cost of their unit is 7 a fixed number and this includes the current cost of Central 8 Hudson as a fixed number. 9

The variation could be made in changing the 10 escalation rate from current to future or the variation 11 could be made in changing somebody else's current numbers. 12 We would not change somebody else's current 13

numbers. We may or may not change escalation rates. Assum-14 ing we do not change current numbers and changed only escala-15 tion rates, then Central Hudson would remain at the same 16 relative position regardless of escalation rates and would 17 most probably be dispatched the same amount. 18

So, you're saying that you're playing off 19 Q Central Hudson against the PJM sources and if the price of 20 fuel were to go up for PJM or the assumptions were changed 21 for the price of fuel for PJM, that it would be necessary 22 to change the assumption price of fuel for Central Hudson 23 by the same amount, and as a result the balance wouldn't 24 change appreciably, if at all. 25

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	Steger-prose . 346.
1	A That's correct.
2	MR. MAKUL: Can we go off the record a
3	second?
4	JUDGE HARSHALL: Sure.
5	(A discussion was held off the record.)
6	JUDGE MARSHALL: Back on the record.
7	Q Mr. Steger, with respect to the way the con-
8	servation effect or sales reduction was spread among the
9	hours, I take it you did not take it upon yourself to do this
10	but this is what the sales people this is the way they
11	told you to treat this reduction in running the PCP program.
12	A The reduction was not involved essentially with
13	the sales people. I had a request to run the program with
14	500 gigawatt hours less than system requirements, with no
15	mention as to how to reduce it.
16	The easiest way the program was very limited
17	on how you could do it. To do it quickly, and I mean quickly,
18	less than a month or two, the only way to do it is to do each
19	hour by the same percentage. That is an easy way to do the
20	program. Anything beyond that would take months and it could
21	not have been gotten for this case.
22	So, I had no choice but to do it this way due
23	to the limitation of the program.
24	Q So, you did it this way
25	A It was the only way I could do it.

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	Steger-cross 347.
1	· Q It doesn't reflect any no assumption on my
2	part that that was the correct way to do it. It was a limita-
3	tion of the program that on a short time span it's the only
4	way the programmer could do it.
5	9, I understand.
6	MR. MAKUL: We have no more questions
7	for Mr. Steger.
8	JUDGE MARSHALL: Does the Deputy Attorney
9	General have any questions?
10	MS. BELLO: We have no questions.
11	JUDGE MARSHALL: Okay.
12	Mr. Sahradnik?
13	MR. SAHRADNIK: No questions.
14	JUDGE MARSHALL: Does the Petitioner
15	have any questions on redirect?
16	MR. KIRSTEN: We're just talking about
17	that. Can we go off the record a moment, your
18	Honor?
19	JUDGE MARSHALL: Yes.
20	(A discussion was held off the record.)
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h		Steger-redirect 348
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	2	JUDGE MARCHALL: Ne'll go task on the
	3	record now.
	4	Mr. Kirsten?
	5	REDIRECT EXAMINATION
		BY MR. KIRSTEN:
	6	Q Mr. Steger, I direct your attention to Exhibit
	7	A.2, Page 4 of 9. Would you tell us or explain, if you will,
	8	the difference between the column which shows actual average
	9	of PJM running rate with the average past projected averages
	10	and if you can, explain why there are differences in the most
	11	recent months of those two averages?
	12	A Yes. This was brought up yesterday on the
	13	difference between these columns and I thought an explanation
	14	was deserved.
	15	The earlier months were slightly below the
	16	predicted average but not significantly. The last three
	17	months, April, May and June, are significantly less than the
	18	projected average, but on the three months the PJM system,,
	19	which was on what is called a split running race, due to
	20	transmission limitations between the western and eastern
	21	portions of PJM, the system could not be dispatched economic-
	22	ally during these months, and the eastern units were running
	23	at a higher running rate, considerably higher than the
	24	numbers shown on these sheets.
	25	The western units were showing an artificially

PENGAD CO., BAYONNE, N.J. 07002 - FORM 2048

Steger-redirect

1 low running rate because the power could not be transmitted 2 Olit. 3 Due to the PJM rules, it is the western or low 4 running rate which is shown on all reports. This gives the 5 false impression that the system is running cheaper than had 6 been predicted. 7 This split running rate was due in large part 8 to the unavailability of the major eastern units, namely, 9 Oyster Creek, Salem, and to some extent Peach Bottom and 10 Hudson during this period.

11 With Oyster Creek now back and Salem-2 expected 12 on it shortly, we do expect that the split running rate 13 problem will occur less often and that the actual running 14 rate that is recorded will more nearly approach the running 15 rate that is predicted.

> Thunk you, sir. Q

> > JUDGE MARSHALL: Any further questions?

MR. KIRSTEN: No.

MR. MAKUL: I'd like to ask a question. JUDGE MARSHALL: Yes.

21 RECROSS-EXAMINATION

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BY MR. MAKUL:

23 The split running rate, was there a trans-2 24 mission line out of service or --

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It wasn't a transmission line out of service.

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Steger-recross

1 It's the fact that there is a limited transmission from west 2 to east and with the major eastern units out of service, the 3 required transmission for a completely economic dispatch on 4 PJM was higher than the system had been designed to carry, 5 and it was a temporary condition caused by many of the major 6 eastern units being out of service at one time.

Q I see. It's not a condition which, I believe you said, which is expected to occur with any degree of regularity?

10 A The condition always occurs at odd hours when 11 conditions are bad. It occurred very regularly during these 12 months and is not expected to occur this regularly in the 13 future. It will always occur to some extent.

14 Q I take it that the projections then that are 15 made by PJM do not take this possibility of a split running 16 rate into account?

A That's right. The PJM, PCP program which makes this projection does not recognize transmission lines and assumes an infinite transmission system.

20 So, it does not recognize the split running 21 rate. 22 MR. MAKUL: Okay, that's all. 23 JUDGE MARSHALL: Anything further on

JUDGE MARSHALL: Anything further on redirect or any further questions?

MR. KIRSTEN: Nothing.

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	Steger-cross 351.
	MR. SLEVIN: No.
	MR. SAHRADNIK: I have a question.
:	GROSS-EXAMINATION
	BY MR. SAHRADNIK:
1	Q You had made, Mr. Steger, reference about the
(	a last three months. If I'm correct from reading Page 4 of 9,
;	JCA.2, the actual average had been below the forecasted
1	average since July of 1979 on a month-to-month basis, has it
9	not?
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(Continuing) The difference I made was that A the earlier months to a great extent were small differences, 2 one or two mils.

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If we can go back to July of 1979, you had an 0 average forecast for 40.2 mils and the actual average was 32 mils. That is an 8.2 mil difference.

July was a different problem. July of last A year if my memory serves me right, was an extremely cold month and the cold weather will drive the running rate down. That was a different problem than the more recent months.

Now, August of 1979 you had a 3.4 differen-0 tial.

Three .4 is within the accuracy of what this A program can predict.

From July 1979 to at least, you have the actual Q for June of 1980 down here, the cactual average has been below the forecast?

Yes, it has been somewhat below and last A summer considerably below due to the cold weather. If you look at the last three months, it was down nearly 10 mils a month which was more than the accuracy that the program should have and I thought it deserved a separate explanation. MR. SAFRADNIX: That's all. Thank

you.

JUDGE MARSHALL: Thank you again.

20.44 BANDANE

2	Raber 353
1	MARVIN RABER, sworn on behalf of Petitioner and
2	testifies as follows:
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4	BY MR. KIRSTEN:
5	Q Mr. Raber, have you prepared a testimony for
6	purposes of this proceeding?
7	A Yes, I have.
8	Q Prefiled testimony?
9	A Yes. They are Exhibits JC-400 and JC-401.
10	MR. KIRSTEN: They have been previously
11	distributed. I don't have an extra copy with
12	me for the Court Reporter, but I will supply
13	one and substitute this copy which is my own,
14	if that is permissible, sir?
15	JUDGE MARSHALL: All right.
16	Q The exhibit which was prepared is marked JC-
17	400, is that the testimony entitled "Testimony of Marvin
18	Raber"?
19	A Yes.
20	Q If you were asked those queltions today, would
21	your answers be the same?
22	A Yes, they would, subject to some minor cor-
23	rections I would like to introduce.
24	MR. KIRSTEN: We will get to those cor-
25	rections in a moment. For purposes of identi-

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PENGAD CO., BATONNE, N.J.

13		Raber - direct	354
	1		fication, could we have this marked as JC-400?
	2		JUDGE MARSEALL: If there is no objec-
	3		tion, it will be so marked.
	4		(Whereupon, the Testimony of Marvin
	5		Raber was marked JC-400 for identification.)
	6	Q	And annexed to that document is there another
	7	document which	is entitled Short Term Sales Forecast Summary
	8	July 19807	
	9	А	Yes.
	10	Q	And does that contain the sales forecast ma-
	11	terial which w	as referred to and identified in your testi-
	12	mony?	
	13	A	Yes, it does.
	14	Q	And was that sales forecast prepared by you
	15	or under your	supervision?
	16	А	Yes.
	17		MR. KIRSTEN: May I have this document
	18		marked as JC-401?
	19		JUDGE MARSHALL: If there are no objec-
	20		tions, it will be so marked.
	21		(Whereupon, a document entitled Short
	22		Term Sales Forecast Summary July 1980 was
	23		marked JC-401 for identification.)
	24	2	Mr. Raber, do you have any corrections to
	25	make to Exhib.	it JC-400, your prepared filed testimony?

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PENGAD CO., BAYONNE, N.J.

I4 Rabe	r - direc	t					355
1	А	Yes, I	áo.	There are	several	minor	correction
2			JUDO	E MARSHALL	: Off t	he reco	ord.
3			(Whe	raupon, th	ere was	an off	the record
		discus	sion.	.)			
4			JUDO	E MARSHALL	: Back	on the	record.
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PENGAD CO., BAYONNE.

Mr. Raber. do you have any corrections which 0 2 you would like to make to the pre-filed testimony which has 3 been marked for identification as JC-400? 4 Yes, I do. There are several minor corrections A 5 in Exhibit JC-400; Page 4, about the middle of the first 6 whole paragraph, there is a sentence that begins: "The trend 7 determine was projected through 1981." The 1981 should be 8 1982.

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9 The following paragraph on the same page also 10 requires a few minor corrections in the first line of that paragraph. I would like to delete the word "new" so that the 11 12 phrase reads: "The number of residential customers is ex-13 pected to increase by 1.7 percent," should be changed to 14 1.8 percent. It represents the number -- there is a number 15 in the word "new" 10,600 new, and I would like to replace 16 that with 11,400 additional.

17 Skipping the following line, the line after 18 that begins: "12,800 new," I would like to replace the "new" 19 with the word "additional."

20 Similarly, on the line below, there is a phrase 21 "10.300 new." Make that "10,000 additional."

MR. MAKUL: Excuse me. Is that the 10.300 that is being changed to 10,000 even? THE WITNESS: Yes.

JUDGE MARSHALL: Just for the record,

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1	Raber-direct 357.
1	the earlier correction you made of 12,800, the
2	12,800 figure remains the same?
3	THE WITNESS: Yes, it does.
4	Those are all the changes that I have
5	to JC-400.
6	Q The last one representing 10,000 additional
7	residential customers; is that the way it is supposed to
8	read?
9	A 10,000 additional residential customers; yes.
10	Q Do you have any corrections to JC-401?
11	A Yes. I think there are two minor corrections
12	to JC-401. On Fage 3 of 14, the title to the table has a
13	spelling error. The second line of that title ought to read:
14	"GWH sales and percent change from previous year." On Page
15	5 of 14, the sentence at the top of the page was inadvertently
16	left incomplete. It should be completed by inserting the
17	number 12,657 gigawatt hours. That number is derived from
18	the table below.
19	Those are all the corrections I have.
20	Q I just have a few additional items by way of
21	direct testimony.
22	In addition to your pre-filed testimony, Mr.
23	Raber, the sales forecast presented in Exhibit JC-400 and
24	JC-401 differ from the sales forecast presented in the
25	original case for filing both the LEAC and the base rate cases?
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PENGAD CO., BATONNE, N.J. 07002

A Exhibits JC-400 and 401 update the Jersey Central forecast as of July, 1980, and therefore supersede the forecasts that were presented in the filing which were prepared earlier. The update was made to assure consistency between the sales forecast used in the LEAC filing and the base case, since the time period of interest to these cases very closely coincide.

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8 The other reason for the update was basically 9 to account for changes in the projection of the performance 10 of economy which came about since the last previous forecast 11 was prepared. Those changes indicate that sales may be signi-12 ficantly below the level that had been predicted in the earlier 13 forecast. Those are reflected in the July update.

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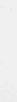
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Q Is the accuracy of the forecast significantly
 less in the late 1981-82 time frame than in the near term,
 say 1980-81, early 1981?

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A I don't think it is because there is general 4 concensus that the economy will be on a recovery track by 5 the time frame of late 1981 and it is likely that predictions 6 of the performance of the economy and therefore forecast of 7 sales will be more accurate for that period of time. I think 8 that the forecast accuracy in the near term will depend on 9 predictions of economy at a time when recession is right near 10 the bottom and the near term projections are somewhat un-11 certain because of the timing and the exact amount of the 12 beginning of the recovery. 13

14 I would say that the forecast accuracy further 15 out is probably as good.

At Page 2 of your testimony, you state: "The July '84 forecast incorporates the effects of conservation and recent price increases." Page 4, you state: "That the continuation of the conservation trend drive by increases in the price of electricity assuming that future price increases would be comparable in magnitude of those experienced in the past year are implicitly considered in the forecast."

23 Would you please explain those statements?
24 A Yes. Well, the historical data and trends that
25 are used as basis for projecting sales into the forecast

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period implicitly include the responses of customers to changes in the price of electricity. As I indicated on Page 5 of my testimony, this type of trend is captured in the 12-month rolling average procedure, and it implicitly assumes that the electricity prices will trend about the same way through the forecast period.

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Q What about the most recent price trend for
 B Jersey Central, and what impact has there been perceived, if
 9 any, on the Jersey Central sales of those price trends?

A I have no way to separate out an explicit price
 trend impact that we can note the general trend in some
 aggregate fashion, but I have no data that would allow me to
 disaggrevate this into components, one of which might be
 labeled specifically price impact or price elacticity.

In recent years, Jersey Central customers have experienced modest increases in real terms that is corrected for the effects of inflation in 1976 and 1977; and for the following two years 1978 and 1979, there was actually slight decreases in rates.

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Q In real terms?

A In real terms, yes.

22 Q Will you explain what you mean by "in real 23 terms"?

A That is corrected for the impact of inflation. The numbers, the actual, or what I would term nominal numbers,

are adjusted by the inflation rate for the period of time
 that they are in effect. In other words, if inflation went
 up by so many percents in one year, the rate would be cor rected for that.

5 Q In view of the increases in rates in 1980, 6 should the forecast be adjusted for price elasticity effects 7 that are not captured by the historic data trend?

A In principle, I suppose it should be if one believes that there is a direct linkage between price increases and customer responses to those price increases on a reasonable short-term basis.

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1 (Continuing.) I think in general, on a long-P. 2 term basis, as prices go up, customer usage is likely to go 3 down, but as I indicated before, I have no quantitative 4 direct linkage between a customer response and a price on a 5 short-term basis. We can observe the total trends. 6 Short-term elasticity responses are very dif-7 ficult to identify and separate out and they're clouded by 8 a number of things that are happening out in the world and 9 let me see if I can give a couple of examples of these. 10 The magnitude of the increase, the rate in-11 crease, is obviously an important parameter, but how do you 12 characterize the magnitude of this increase? Should it be 13 characterized in nominal terms unadjusted for inflation or 14 in real terms. 15 What is it that the customer perceives and re-16 sponds to? Is it the real price increase or the nominal 17 price increase, or some combination of these, or some in-18 crease relative to an increase in his income? Is it the total 19 bill or the unit price? 20 Customers having different income levels will 21 respond differently to price increases. In the connercial 22 and industrial areas, customers who can readily pass on the 23 cost of electricity price increases to their sustaners will 24 respond differently than organizations that can't. 25 The timing of a rate increase would have some

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bearing on customer response. For example, a rate increase that's granted in May is followed rather rapidly by the onset of the summer/winter rate differential here in Jersey. What is it that the customer responds to? Is he responding to the price increase or responding to the onset, the normal onset of the higher summer rates?

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By the same token, a price increase that's
granted in September is followed fairly quickly by the onset
of the lower winter rates which tend to counterbalance the
impact that the customer sees.

The magnitude of the elasticity co-efficient for each group which depends on the group or the individual customer's particular circumstance also comes into play here, and let me see if I can give some examples of what I'm thinking of.

16 Take a residential customer who may or may not 17 have turned his thermostat up to the point of incipient dis-18 comfort. If he hasn't already done so, it's very easy for 19 him to do that in response to an increase in his bill. If 20 he's already done so, if he's already got his thermostat set 21 to the point of incipient discomfort, he may not wish to 22 adjust the thermostats further or, alternatively, it may take 23 a much larger increase in his bill to move the thermostat 24 another two or three degrees.

Once these easy steps have been taken, it

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generally requires an investment of some sort to produce an additional conservation type response. That, in turn, or a customer's willingness to do that sort of thing depends on the state of the economy, are they willing to do this in times of recession. These are the kinds of things that you have to get into in order to identify specific discrete elasticity responses on a short-term basis, and we have no real mechanism of doing this. The data just don't exist. 

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Raber - direct

Q Is it possible to quantify price elasticity impacts by using Jersey Central's long-term forecast methodology?

A We did so at the request of Rate Counsel in the last case and the more I think about that calculation, the less I think it's applicable to this kind of a situation.

I really don't think that kind of a calculation is applicable. It was not originally intended to be, I should point that out. The long-term models which embody a long-term price elasticity sub-model were intended to track trends over a long period of time.

The data that these models are based on go back to the 1960's when prices of electricity were declining in real terms, and the situation is very different today and it is not clear if the customer responses to rising prices are the same or inversely in a sense, but similar in a quantit tive way to the kinds of responses that customers make when prices are declining.

We had some discussion in the last LEAC case about this point and I believe that there was some agreement by Rate Counsel's consultants that in some areas, particularly the industrial area, that the numerical value that one cranks through the model and gets was not applicable and I was again at that point emphasizing that

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365

25 2	Raber - direct 366
1	I thought that the residential and commercial calculations
2	that had been done were rather conservative.
3	So that I suppose in principle, it's
4	possible to do this, but I'm reluctant to make that kind
5	of an application.
6	MR. KIRETEN: That's all the questions
7	that I have of Mr. Raber.
8	JUDGE MARSHALL: Okay.
9	THE WITNESS: I have one more thing
10	that I'd like to say.
11	Q Okay.
12	A I have some information concerning one of our
13	industrial customers that I think would be appropriate to
14	
15	Q I'm sorry, I had a note about that.
16	A describe, there has been some publicity
17	on the subject recently and it did come up briefly in one
18	of the discovery meetings.
19	Q There have been two, as a matter of fact,
20	residential customers two industrial customers at which
21	there have been questions about. One is Whippany Paper
22	Company and you have some more recent information on the
23	status of that?
24	A Yes, I do. The company is in bankruptcy
25	proceedings and it's future apparently depends on either

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PENGAB CO., BAYONNE, N.J. 07002

2 3	Raber - direct 367
1	a sale of the company to new principals or the current prin-
2	cipals obtaining some investments of money from outside.
3	Whippany Paper has three plants within
4	our service area whose status is as follows: there is a
5	small plant that was shut down in December, 1979. The elec-
6	tricity usage of the plant is approximately eight gigawatt
7	hours per year. I'm told this particular plant is somewhat
8	antiquated and may well never reopen.
9	The eight gigawatt hour loss, I believe
10	is adequately captured by our current forecast. The plant
11	was shut down six or more months before the forecast was
12	done and this magnitude of the usage or the magnitude of
13	the sales lost to this plant is really quite small.
14	They have a large plant which was shut
15	down in June of this year and it's usage is approximately
16	46 gigawatt hours per year and they have a medium-sized
17	plant which was shut down late July or early August of this
18	year and it's usage is about 18 gigawatt hours per year.
19	The long-term disposition of the
	latter two plants is uncertain at the present time. It
20	depends on negotiations that may still be going on. There
21	was some announcement of this in the press about a month
22	or so ago about other people who are interested in taking
23	it over. If the take over is successful, the plants could
24	go back in operation within a couple of months, I gather.
25	go back in operation within a couple of interest of

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2j 4 Raber - direct

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1	If the take over is not successful and the negotiations
2	don't succeed, the delay in returning these two plants to
3	operation may be longer, and I have no way of judging how
4	these are going to go, nor could the Whippany Paper people
5	tell our own customer services people how this was likely to
6	go.
7	The total curtailment for the two larger
8	plants would be in the order of 64 gigawatt hours per year.
9	The forecast implicitly assumed that those two plants are
10	operating.
11	I'm inclined not to propose an adjust-
12	ment to the forecast under the presumption that operations
13	are likely to resume in the not too distant future.
14	Q The other one that I think there was gues-
15	tions about was New Jersey Steel.
16	A Let me update you with regard to New Jersey
17	Steel.
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1	, 위험 다 가슴이 다 말 한 것 같아. 이 것이 가 나는 것이 같이 말했는 것이 않는

A (Continuing.) That plant, if you recall, that customer's plants were shut down virtually completely about a year ago and that was discussed to some extent in the last LEAC proceedings.

363.

We have contacted New Jersey Steel within the last few days to get an update on their status. They may resume operations at a low level -- this is the rolling mill, now, not the furnace -- sometime after the first of the year.

If they do, the sales might be as high as
11 10 percent of their pre-shutdown level, which is pretty low,
and I think that's well within the kinds of things that are
captured by the forecast.

14 Full-scale operations or the resumption of 15 full-scale operations is not certain at the moment. They 16 may be able to resume operation in late '81 or early '82. 17 This depends on the resolution of a number of questions that 18 bear on the profitability of the plant, and these problems 19 involve negotiations with the labor unions, recruiting and 20 training new crews to operate the plants, and so on, and at 21 this point in time there is no basis that I see for changing 22 the forecast, particularly since their earliest assessment 23 of a return at any substantial level is beyond the periods 24 of interest for the case being discussed in these proceedings. 25 Thank you, Mr. Raber. That's all the questions Q

GAD CO., BAYONNE, N.J. 07002 . FORM 2045

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- 1	Raber-cross 370.
1	I have.
2	JUDGE MARSHALL: Okay.
3	CR. KIRSTEN: He's available for cross-
4	examination.
5	JUDGE MARSHALL: Off the record.
6	(A discussion was held off the record.)
7	JUDGE MARSHALL: Back on the record.
8	CROSS-EXAMINATION
9	BY MR. MAKUL:
10	Q Good morning, Mr. Raber.
11	A Good morning.
12	Q With regard to the Whippany Paper Company, you
13	said they might start operation again in the not too distant
14	future. Exactly how distant is not too distance to you?
15	A I have no way of knowing simply because I sus-
16	pect they won't tell us anything about the negotiations. I
17	suspect the negotiations are in a rather sensitive stage.
18	The newspaper article which appeared about a
19	month ago suggested that if the take-over were to go through,
20	they could be back in service in three months. That was a
21	month ago, so in theory at least that would bring them back
22	within the next two or three months.
23	Q That's the most optimistic or pessimistic, de-
24	pending on your point of view.
25	A I guess.

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1	Raber-cross 371.
1	Q And of course the other end of the spectrum
2	could be never.
3	A As I perceive it, that isn't anybody's intent.
1	I think the intent is to somehow get those plants back. I
5	don't think they want to go out of business.
,	Q Well, it could be considerably longer than two
	months?
	A It could be, yes.
	Q It could be six months or more, perhaps?
)	A I suppose.
	Q Now, all the exhibits that have been produced
2	with respect to reductions in the sales forecast produce a
	reduction in an amount of gigawatt hours per month, but
•	there's little or no additional specificity with regard to
5	time of day or time of week in which those reductions would
,	occur. Would you agree?
	A That's correct. We have not been forecasting
	it at that level.
,	Q And Mr. Steger was apparently, as a result, not
,	given any instructions as to how to treat that reduction in
	sales, and I believe it's a fair characterization to say be-
2	cause it was very difficult to do it any other way, he assumed
3	that all the sales and all the hours go down by the same
	percentage. Did you hear him testify to that?
5	A I heard him say that, yes.

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1	Q Now, I think the record that we've developed
2	over the last couple of days pretty well indicates that de-
3	pending on whether or not the conservation occurs in an on-
4	peak period or off-peak period, that the price of displaced
5	electricity can vary significantly, depending on whether or
6	not the incrimental source was coal-fired or oil-fired.

Based on your experience, there's conservation.
Could you give us any generality as to when that conservation
would be expected to occur?

A I would say that there are things going on in the world that produce conservation across the board. There are steps that the Company is taking that would produce conservation or load shifting, if you will, that are specifically aimed at the high cost periods of time.

Those kinds of activities may not lead to very much of a change in net sales. They may simply shift the sales from a high-cost period to a lower=cost period.

18 Q Well, that's load shifting, not conservation 19 in the sense we're addressing it. Isn't it a natural reduc-20 tion in gigawatt hours?

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373. That's right. Well, let me speculate. Industrial sales are forecast to go lower per hour July forecast

than they were earlier.

4 I would not characterize that as a conserva-5 tion-induced mechanism. I think it's driven by the economy, 6 but nevertheless, much of the sales would be lost during the daytime, during the afternoon at peak times, and could con-8 ceivably contribute to a reduction there.

9 On the other hand, losses in commercial sales 10 might well be in off-peak hours. For instance, stores are 11 closing earlier or air conditioning usage may be less, for 12 some reason. That could be either on-peak or off-peak. On-13 peak, in my thinking, is the middle of the afternoon, sort 14 of.

15 Mr. Gentieu -- first of all, before we get Q 16 into that, how broad a period is considered on-peak versus 17 off-peak, and I note that Mr. Gentieu, in talking about the 18 PJM running rate, in some of the assumptions that he was go-19 ing over this morning, noted that about two-thirds of the 20 time the price was representing displaced oil, and one-third 21 of the time displaced coal.

22 Would that be of any relevance to this de-23 termination of what's an on-peak period or off-peak period? 24 It may well be. I suspect that determination A 25 has a lot to do with how you want to use the results, wiat

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the application is.

2	Q Essentially, then, could we say if you had a
3	factory that was doing business one shift a day and five days
4	a week, and then that factory closed for one reason or another,
5	that that sales reduction would largely come out of the on-
6	paak period?
7	A Probably, but by the same token a factory that
8	was operating two shifts, a cutback would cut off the second
9	shift, most likely.

Well, the second shift would run from about, Q 10 oh, just rough estimates, maybe 4:00 or 5:00 in the after-11 noon maybe till somewhere around midnight; correct? 12

It seems reasonable. 4

And in the scenario where the Company cut back Q 14 from a two-shift-a-day operation to a one-shift-a-day opera-15 tion, the whole second shift isn't from the off-peak period, is it?

The large percentage of it certainly would be. A 18 I'm not sure where you want to make a clear boundary between 19 the off-peak and on-peak period, but I would guess that under 20 most conditions, the load is dropping off fairly significantly 21 from the peak value by 6:00 or 7:00 o'clock at night. 22

I take it you're not an expert with respect to Q the load curves of the Company throughout the day and with the incremental source of fuel for the incremental source of

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electricity 12. 1 2 A I'm not well versed in those as other witnesses. I do not watch the dispatching of individual units 3 and the costs associated with those dispatches particularly 4 5 closely. 6 Q Now, in talking about stores, commercial customers that are cutting back, I guess, would it be fair to 7 8 say that the typical store is open six, maybe seven days a 9 week and the hours of operation might be from roughly 8:00 or 9:00 in the morning to 9:00 or 10:00 at night? 10 A There are many stores that probably keep those 11 12 hours, yes. 13 I guess there's a few supermarkets that stay Q 14 open all night, in addition? 15 A Yes. There's very few stores that open up at --16 Q. 17 maybe a casino or two, but that's not in your service toy, 18 that may open at 9:00 at night, stay open all night and 19 close in the morning. 20 I'd be surprised if they closed. A Now, with respect to the residential usage, 21 Q when would you expect conservation to occur; in the middle 22 23 of the night or during normal waking hours? A Certainly there would be some during normal 24 25 waking hours, if the heating load or air conditioning load

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	Raber-cross 376.
1	is reduced for one reason or another.
2	Q What are potential
3	A I could see some potential for conservation at
4	night, also.
5	Q And could you describe that?
6	A For the simple reason that that is a logical
7	time to conserve on the things like air conditioning and
8	heating load. It's easier perhaps to dial your thermostat
9	up or down, as the case may be, at light while you're at
10	sleep, further in order to conserve money, really, than dur-
11	ing the day when you're up and about and might feel the dis-
12	comfort far greater. So, I'm not clear on exactly which way
13	that would go.
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FENGAD CO., BATONNE, M.A. 07002 . FORM 2048

	377
K 1	Raber - cross
1	Q With respect to the electric heating customers,
2	what proportion are they of your total residential customers?
3	A In terms of customers or in terms of usage?
4	Q In terms of customers.
5	A The number 10 percent sticks in my mind, but
6	let me check.
7	Q That's a good approximation. I am not looking
8	for an exact figure.
9	A Okay.
10	Q I don't know whether you were here on Wednes-
11	day but we had a large number of unhappy people, your custo-
12	mers.
13	A I was told.
14	Q And a lot of the testimony given by those
15	customers essentially was that they have cut back, some
16	are electric heating customers, and I believe some said
17	that they have cut back on their thermostats as much as
18	they can because of the price. I take it that that is a
19	pratty good example of price elasticity? Are not as a
20	result of the numerous increases that have occurred last.
21	year, a year and a half, isn't it reasonable to assume
22	that there is limited additional price elasticity for
23	cutting back your thermostat at night and if that was the
24	easy place to cut back that it has already been done?
25	MR. KIRSTEN: I have a great deal of

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PENGAB CO., BAYONNE, N.J. 07002

.2	1	Raber - cross 378
	1	confusion with the question.
	2	MR. MAKUL: I will rephrase the question.
	3	Q Price elasticity, I guess, is a continuing
	4	phenomena, correct?
	. 5	A It continues but not necessarily at a constant
	6	rate.
	7	Q And as prices increase, people do whatever is
	8	easiest or least inconvenient to do in terms of cutting
	9	back should they decide to do so?
	10	A Should they decide to do so is very important,
	11	but the easiest and most convenient thing is to, under their
	12	conditions, is to pay the higher prices.
	13	Q To the extent there might be individuals who
	14	are not well off, who are having difficulty or great con-
	15	cern with the electric bills, and the all electric custo-
	16	mers, isn't it reasonable to believe if they had taken
	17	measures too far, probably the measures that occur is cut-
	18	ting back the thermostat at night?
	19	A That is certainly a logical measure to take,
	20	yes.
	21	Q So if there is going to be additional conser-
	22	vation among this group, it might be cutting back during
	23	the day at least to greater proportions than there is addi-
	24	tional potentials to cut back at night?
	25	A That is possible. I cannot say for sura.

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K3	Raber - cross 379
1	Q With respect to non-heating customers, the
2	non-all electric customers, what kind of appliances do they
3	at night have that run/outside of possibly air-conditioners, what
4	other ones do they have that they would run at night?
. 5	A Dehumidifiers, obviously their refrigerators
6	run at night.
7	Q Minimal lighting load, perhaps?
8	A Yes.
9	Q And I guess to clarify at night, I mean well
10	after midnight? People don't go to bed with the chickens.
11	A Those are the major ones that I could think
12	of.
13	Q With respect to that, to the extent that the
14	balance of the usages during the daytime period, I wonder
15	if you can characterize the conservation potential among
16	those customers in the daytime period versus the nighttime
17	period?
18	A There may well be more activities during the
19	day that can either be shifted in the nighttime period, for
20	example cooking might be shifted to an off-peak period or
21	air-conditioning could be turned down. I think there may
22	well be some potential for air-conditioning to be turned
23	down at night. The potential is there in both time periods,
24	I think.
25	Q Well, air-conditioners don't norma-ly run all

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CO., BAYONNE, N.J. 07002

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K4		Raber - cross 380
	1	year. That is the seasonal type thing?
	2	A It is a seasonal type thing, yes.
	3	Q But the non-air-conditioning type loads do
	4	tend to be much more of a year-round nature. People will
	5	use their various appliances in all months?
	6	A That's correct except now the electric heating
	7	also have course
	8	Q Yes, and we are talking about the non-electric
	9	heating customer.
	10	A Yes.
	11	JUDGE MARSHALL: Off the record.
	12	(Whereupon, there was an off the record
	13	discussion.)
	14	JUDGE MARSHALL: We will break for
	15	lunch now and be back at 1:15.
	16	(Whereupon, the luncheon recess was
	17	taken.)
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PENGAD CO., BAYONNE, N.S. 07002 - FORM 2048

	Raber-cross 381.
1	JUDGE MARSHALL: We'll go on the record.
2	MR. MAKUL: Are we continuing the cross-
3	examination?
4	JUDGE MARSHALL: Yes.
5	CROSS-EXAMINATION (CONTINUED)
6	BY MR. MAKUL:
7	Q Mr. Raber, this morning you mentioned that
8	some industrial customers are to some extent shifting pro-
9	duction or use of electricity from on-peak to off-peak.
10	A We were having a somewhat hypothetical dis-
11	cussion.
12	Q I see.
13	A At least, that was my interpretation of it.
14	Q You do not have time-of-day rates on your
15	largest for your largest customers?
16	A I'm not sure that we do or not.
17	Q I see; okay. Now, would it be fair to briefly
18	characterize your method for estimating sales to the resi-
19	dential sector is to determine a use-per-customer and then
20	
21	a number of customers and then multiply the two to get the
22	usage for the residential class?
23	A That's correct, except that it's done indi-
24	vidually for the total electric customers and the non-total
25	electric customers.
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PENUAD CO., BATONNE, N.J. 07002 . FORM 2046

	Raber-cross 382.
1	Q Now, in terms of usage per customer, I would
2	like to direct your attention to a response to an information
3	request which is marked Exhibit JCE.
4	A Yes.
5	Q Page 404 essentially is a summary of the 1980
6	to 1981 projections for residential usage per household?
7	A Yes, it is, other than the 1980 that includes
8	actuals for as far as they're available.
9	Q How far does the actual go?
10	A Well, as it says in the footnote, 1980 data
11	includes six months of actual weather adjustments.
12	Q So they are weather adjusted?
13	A Yes.
14	Q In the forecast, which budgets are they based
15	on?
16	A I think that's backwards. The budgets are
17	based on a forecast, not the reverse. This is the July fore-
18	cast. This is the 3-plus-9 budget, as adjusted for presenta-
19	tion in the LEAC filing. I think the adjustment is shown on
20	Page 3 of 15 of the original filing.
21	Q With respect to those projections, what are the
22	assumptions made in terms of change of appliance mix or a
23	replacement of appliances upon wear-out?
24	A In the short-term methodology that is not con-
25	sidered explicitly. What we do is a rolling average of

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historical sales data on a weather adjusted basis. Now, that implicitly includes whatever replacement trends have existed in the immediate past, and that is projected forward into the future, so whatever has been going on is captured in that sense.

383.

Q So therefore, do these figures reflect any change in either of the number of appliances or replacement of appliances?

9 A Whatever has been going on in the recent past
10 is captured.

In terms of the future, is there any additional assumptions unchanged?

A Assumptions that the recent past trend will largely continue unless there is something specific that we know of that creates a deviation or looks like it will create a deviation in the future that is radically different enough from the past trend to warrant an adjustment in the appliance area. I don't think there is one.

19 Q These numbers on Page 404, does that include 20 an impact of price elasticity?

A In the sense that I mentioned before of whatever the price elasticity impact that is being captured by the rolling average methodology.

Q The rolling methodology, I believe you described it on Page 3 of JC-400?

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That's correct. A 1 Could you briefly describe what that means? 2 2 Is that the average sales over the most recent 12 months? 3 No. In the residential area, as we were just A 4 saying, the rolling average projections are based on numbers 5 of customers, and on use per customer individually. The 6 rolling average goes back longer than 12 months. It goes 7 back several years and the historic data over that period of 8 time, weather adjusted, and these are then fed into the roll-9 ing average calculation. 10 How many years does that data go back? Q. 11 Let me check. I think 1975 or thereabouts, A 12 but let me check. 13 14 15 16 17 18 19 20 21 22 23 24 25

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PENGAD CO., BAYONNE, N.J. 07002 - FORM 2048

	Raber-cross 385.
1	A (Continuing.) Probably earlier than that,
2	probably in year 1970.
3	Q. In terms of coming up with a price elasticity
4	adjustment, essentially could you briefly describe what is
5	the base period that you're looking at as your base level
6	consumption and how do you go from that to a projection of
7	what the consumption will be at a new higher price, in terms
8	of what base do you start from?
9	A I'm confused.
10	Q Okay.
11	A We've done no price elasticity adjustment other
12	than what's implicitly captured in the rolling average pro-
13	cedure.
14	Q The rolling average procedure you essentially
15	what you've been doing essentially, as I understand it, is
16	you've been looking at what the consumption has been during
17	rolling 12-month periods?
18	A Right.
19	Q And you're making an assumption of how the
20	price is going to has changed historically and is going
21	to change?
22	A No. We simply do the 12-month rolling average
23	procedure and whatever it captures, it captures. There's no
24	discrete adjustment for that. It's just implicitly built
25	into the procedure.

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PENGAD CO., BAYONNE, N.J. 07002 . FURM 2048

1	Raber-cross 386.
1	Q How many price increases, if you know offhand,
2	have occurred in the last 12 months and at what month did
3	they start having an impact on customers' bills?
4	A Well, in reverse chronological order, there
5	was an increase in May of this year which I presume would
6	show up in bills rendered in June, I guess.
7	2 Well, that was the dollar increase per resi-
8	dential customer.
9	Λ No
10	Q The increase in the service charge in May.
11	A Yes. That was the emergency grant.
12	Q The interim.
13	A On the present case?
14	Q Yes.
15	A There was a LEAC adjustment in April of this
16	year and a LEAC adjustment in March of this year, LEAC ad-
17	justment in September of last year.
18	Q So, essentially there's been three increases,
19	the March, April and May, where we have seen much less than
20	a full 12-month effect on consumption on a 12-month rolling
21	average.
22	A That's true.
23	Q Wouldn't that tend to assuming that there
24	are price elasticity effects, would that not tend to give a
25	result which might be somewhat different, given that the

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BAYONNE, N.J. 07002

PERGAD CO ...

1	Raber-cross 387.
1	present level of prices are higher than what existed on a
2	rolling 12-month average?
3	A In theory, I suppose that's true, but you're
4	assuming that there is a run for one linkage within a price
5	increase and some change in consumption, and I'm not I
6	don't know how to demonstrate that that is in fact the case
7	on a short-term basis.
8	I think on a long-term basis, what you have
9	said is correct.
10	Q Now, over the past year, year-and-a-half, rates
11	have gone up significantly, and I believe one thing you said
12	earlier is that the income of an individual has something to
13	do with how much he's going to conserve, if at all, as a re-
14	sponse to prices.
15	A I would expect that would be one of the vari-
16	ables, yes.
17	Q Is it possible that someone would respond to
18	a relatively small increase, providing his income was ade-
19	quate, with no conservation?
20	A That's possible.
21	Q And then if there was another increase, he
22	might still respond with no conservation?
23	A That's possible.
24	Q But then after the third or fourth increase,
25	it starts getting significant both in terms of price and
	a service and service of price diff

PENGAD CO.. BATONNE, N.J. 97902 . FORM 2048

basis.

1 otherwise in which he's been sensitized to cost of electricity 2 other than just receiving the bill, then we can start seeing 3 a conservation impact occurring for that individual where 4 there has been no response to prices before?

5 That depends on a whole lot of other circum-A 6 stances. This same individual might have received an income 7 increase in rate of pay and maybe he said that offsets it. 8 I like my air conditioner, and will continue to run it. 9 The response is not guaranteed, is what I'm 10 trying to say. It may happen; it may not happen. We have 11 no way of knowing this or judging this on an accuracy-wise 12

13 Well, overall you think it is a pretty reason-Q 14 able generalization that in your service territory that 15 electric rates have gone up at a much faster rate than dis-16 posable income?

Over what period of time? A

> The last year-and-a-half. Q

19 A Year-and-a-half? I guess I want to take two 20 exceptions to that. One is, I'm not sure that -- to the ex-21 tent that that's true, I think it's not limited to our service area. I think everybody has seen roughly the same kinds 22 of rate increases, and I think it's been established that 23 Jersey Central doesn't --24

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Everybody has seen a percentage increase the

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1 same as Jersey Central's customers have.

Not in the very recent past, but that was be-A cause Jersey Central's rates were lower before. So, they've gone up more on a percentage basis but even today I think Jersey Central's rates are not higher than Public Service's rates.

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I'm not asking an absolute comparison of the Q. rates; I'm asking you the rates at which they went up compared to the rates that disposable income went up.

What I'm groping for is the rates at which A disposable income is going up, and I don't recall the figures offhand.

I'm sure it hasn't been --

It's possible it's not been on the same order A as the nominal increases in Jersey Central's rates, so, yeah, I think the rates have gone up faster than disposable income.

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	Raber-cross 390
1	Q There was a 1980 customer energy survey prepared
2	by GPU Service Corporation dated August 1, 1930.
3	Are you familiar with this at all?
4	A I am familiar with it to a limited extent.
5	Let me characterize that document for just a moment, if I
6	may.
7	This is one particular document that
8	is being issued among, it really wasn't issued until last
9	week despite the date that may be on it. It is just one
10	particular milestone in an ongoing program of customer
11	research, that this is a program that goes on continually
12	and most of the information from this program is said on a
13	more or less continuous basis into the forecasting process.
14	MR. KIRSTEN: Excuse me. The document
15	you are referring to, Mr. Makul, I think you
16	have it, the witness has it, but I think other
17	people may not. We have extra copies avail-
18	able.
19	If you are going to go into this further,
20	it probably might be a good idea
21	MR. MAKUL: I have no intention to go
22	through it. If the parties would like to have
23	it marked into the record, I have no objection,
24	but I was not going to deal with it in terms
25	of specific page by page questions, but rather

PENGAD CO., BATONNE, N.J. 03002 - FURM 2044

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MR. KIRSTEN: I am sorry to interrupt. I thought if you were going to spend some time on it, it may be helpful if all the parties have it.

5 Q I wanted to ask to the extent that additional 6 knowledge was developed from the survey, was it incorporated 7 in any way in the sales projection?

8 A I would say because the customer services 9 information is included, put into the forecasting process 10 on an ongoing basis, it doesn't necessarily await the publi-11 cation of some discrete report such as this one which came 12 out last week.

Q There was one section of that survey, there was
a question about fuel or energy conservation measures which
customers have taken or plan to take.

Now, I see that there are many measures in this survey where well under 50 percent of the people have already taken many steps, and many people are planning on taking the additional steps or taking the steps for the first time.

How is that taken into account in the 12 months rolling average?

A Well, take your use per customer trend and you will find it going down rather substantially in 1980 relative to 1979.

392 Raper-cross Is that really so because going back to JCE, 0 1 I look at the 1980 versus the 1981 figures and --2 No, the 1981 figures are not all that different, 3 A but the 1980, relative to the 1979 figures, are different. 4 From that figure the expected sales for 1980 5 0 for a NTE customer -- what does that stand for? 6 Non Total Electric. 7 A That kind of customer is expected to use 5,841 8 0 kilowatt hours in 1980 and 6,834 in 1981. That is only a 9 difference of 7 kilowatt hours. Isn't that a rather modest 10 amount of electrical conservation? 11 You mean the change from those two years? A 12 Yes, the change from year to year. 0 13 Please note the change from 1979 to 1980. A 14 got That is a good deal larger. I have/them here in my testimony. 15 Use per customer in 1979 is 7,004 and 1980 it is 6,841, and 16 that is a substantial decrease due to both conservation and 17 the state of the economy. 18 Conservation steps that lead you from 19 1979 to 1980 may not all be continual for another year. 20 Q I believe you said this 1980 to 1981 figure 21 somehow implicitly captures a price elasticity effect. Am 22 I wrong? 23 That's what I said, but I am not under -- do A 24 you care to elaborate on the question? Yes, I think that's 25

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1 what I said.

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2	Q If you agree to that, furthermore, if the
3	Company is granted an increase in this proceeding and, in
4	addition, the Company's base rate case will be decided some-
5	time early in 1961 and presumably the Company will be back
6	for another LEAC proceeding to go into effect in March, and
7	who knows what after that, isn't there a continuing trend
8	toward higher prices, and wouldn't we expect to see another
9	reduction in residential usage as a result of the additional
10	price elasticity effect?
11	A If the increases come about in theory, there
12	may well be an additional reduction. If, let's keep in mind
13	there are forces that act the other way, for instance
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Q You're not referring to the Division of Rate Counsel, are you?

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A No, no, no, I was not. That's not what I had in mind. What I had in mind were things like customer income trends, new appliances having higher efficiency than an applicance that is being replaced, just a tightening perhaps, in a technical sense, of elasticity. The elasticity does not necessarily remain constant, if you will. The more easy steps you take the more you reduce your usage. It is harder to effect further reductions.

Q I think one of the things you cited was more efficient appliances. That would tend to reduce usage, correct?

Yes, it would.

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2 And I guess one of the assumptions is that if someone has more income, he will go out and buy more appliances but isn't it also possible if someone has more income he can replace his old, inefficient tube TV set with a brand new color television set which is all solid state and uses less electricity?

A Color sets use more electricity than black and white sets.

Q A brand new color transistorized set uses more electricity than an old tube black and white set? A Perhaps more than the old tube black and

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Raper - cross 395 1 white sets. How about the old tube color sets? 2 0 Probably one would use less but on the other 3 A hand people might buy refrigerators, for instance, and tend 4 to replace an existing model with a larger model that per-5 6 haps has additional features in it. What if they tend to replace --- I know in my 7 0 personal circumstances there is a space in the kitchen for 8 the refrigerator and a larger one wouldn't fit in there but 9 maybe I am the exception. 10 In my personal circumstances, my wife is after 11 A 12 me to do just that. With reference to some of the appliances, a 13 0 14 refrigerator ----JUDGE MARSHALL: Off the record. 15 (Whereupon, there was an off the record 16 discussion.) 17 JUDGE MARSHALL: Back on the record. 18 With respect to refrigerators, back in the 19 0 fifties and sixties, wasn't there a big trand toward frost 20 free refrigerators? 21 Yes, there was. A 22 And aren't the new refrigerators designed to 0 23 be more energy efficient? 24 Yes. A 25

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Even though they may be slightly larger? 0 1 They are designed to be more energy efficient A 2 but the absolute consumption will obviously depend on the 3 size also so one can offset a usage decline due to improved 4 efficiency by putting in a bigger one. 5 Well, has there been any study to determine 0 6 whether the average refrigerator is going to use more elec-7 tricity than the average refrigerator being taken out? 8 I don't have any specific data right now on A 9 that, no. 10 Are not family sizes generally smaller than 0 11 they used to be? 12 That is true, in general, family sizes are A 13 declining. 14 Which would tend to indicate a smaller refrig-0 15 erator might be adequate? 16 That is a very subjective question. Perhaps A 17 people choose to do shopping at lower frequency and there-18 fore store more food. 19 Are air-conditioners wearing out everyday? 0 20 I assume that they are throughout the service A 21 territory, yes. 22 And in general are the new air-conditioners, 0 23 do they have higher energy afficient ratings than the older 24 air-conditioner? 25

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They are supposed to.

2 Would that not tend to indicate that for the 0 3 same number of BPU's, cooling electricity would be used? 4 A Yes. 5 And, of course, the ability to replace these 0 6 appliances to a great extent depends on income? 7 A Yes. 8 And so it doesn't necessarily follow that 0 9 more income necessarily means more electricity consumption 10 in all situations? 11 I don't know that that follows, no. A 12 I wonder if you can tell me judgmentally 0 13 from Page 4 of 4 on JC-E, why you elected or came to the 14 conclusion that it would not be proper to reduce the usage per customer other than nominal seven kilowatt hours for 15 16 the non-total heating customer? What were the countervaling considerations and why did we end up with an end result 17 18 of essantially no change? 19 I think it was a feeling that the conserva-A 20 tion trend would slow down a bit after the sharp decline that we're seeing in 1980 relative to 1979 coupled with a 21 general improvement in the economy next year and the gen-22 23 eral improvement in real and disposable income. 24 I missed the last part. 0 A general improvement in the real disposable 25 A

1	Raber - cross 398
1	income as economy improves.
2	Q Did you make any assumptions as to what is
3	going to happen to electric rates through the balance of
4	1980 and into 1981?
5	A No. We made no specific assumptions.
6	Q What happens then, do assumption prices remain
7	unchanged?
8	A No. That's what the trend is captured by,
9	the moving average procedure prevails.
10	Q What evidence do you have that the conserva-
11	tion effect from '79 to '80 was it and that there is nothing
12	more to conserve?
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1 I think we need to distinguish between conser-A 2 vation potential and the response that one actually is going 3 to get. The potential may be there whether there will truly 4 be a response in terms of real conservation remaining to be 5 seen. 6 I think the increase in real disposable 7 income will counterbalance the general tendency. People will 8 be in a recovering economy mood. 9 I think that will stimulate -- not 10 stimulate, but it will keep the usage relatively constant because of the two offsetting factors. 11 12 Well, in order to have an increase in real Q 13 disposable income, don't you have to have an increase in income which more than offsets inflation? 14 15 A Yes. And you think that's going to happen? 16 Q That's where our economic forecasts are going, 17 A that in -- this is 1981, now? 18 19 Yes. 0 The whole year of 1981, some recovery through 20 A the early part and toward the end of the year some significant 21 straints in real disposable income. 22 But if the future trends continue along the 0 23 lines of the passed trends, particularly those of the last 24 12 months, electricity will become a larger and larger 25 portion of an individual's budget.

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A You're making an assumption that I think is not warranted.

You're making an assumption that the trends of the last 12 months are driven purely by this price effect that you're trying to quantify in some way, and I think it's driven partly by that, but partly by responses of customers in all classes to the general state of the economy and that's going to improve toward the end of 1931.

9 Q I know that the Company is asking for some 10 73 million or so in this proceeding and the balance pending 11 over and above 360 million of interim relief that's been 12 obtained, and the Company will probably be back for another 13 fuel clause request in March or February to go into effect 14 in March. I guess whether that's significiant increases or 15 not will depend on what happens.

Would it be fair to say that characteriza-Would it be fair to say that characterization of the study is that there's a continuing potential for more conservation?

19 I think there's a potential, yes. A But you're maintaining it will not be realized. 20 0 21 A No. I'm saying it's going to be countarbalanced by other things, that the sales will or the use 22 per customer will stay roughly constant in that interval of 23 time, and then if you look at the projections beyond that 24 25 we will actually resume the historic trend of going up

1 slightly.

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	privicil.
2	Q You're saying that conservation will be offset
3	by somehow by more usage by using appliances or intensively
4	by buying more appliances?
5	A Whatever, yes.
6	Q Could you give me some specific examples of
7	which appliances people might use more intensively or which
8	ones they might buy which they presently do not have?
9	A Well, air-conditioners, for one, freezers,
10	additional TV sets, any appliance that you care to name.
11	Q What is your air-conditioning saturation in
12	the service territory?
13	A I don't know what it is offhand. I can look
14	it up for you, if you like.
15	Q You think that everyone who ever wanted an
16	air-conditioner has bought one by now?
17	A I would doubt it.
18	Q Doubt it. Page 4 of 4 is actually broken down.
19	I was referring to the total figures for the year, but I
20	see it's broken down to a month by month basis and once again
21	I'm looking at the non-total electric.
22	I wonder if you could tell me how the
23	1980 versus 1981 numbers tie into your scenario of economic
24	recession through the end of 1980, and maybe bottoming out
25	or things starting to improve in the middle of 1961.

	Raber-cross 402
1	JUDGE MARSHALL: First of all, as a
2	preliminary matter, I would like to ask if
3	the assumption in the question matches your
4	past testimony or your belief, that the things
5	will bottom out and begin to get better by
6	mid 1981.
7	THE WITNESS: I'm sorry?
8	JUDGE MARSHALL: Part of his question
9	was the assumption that you had that your
10	belief was that things would get better by
11	mid 1981.
12	Is that first your belief?
13	THE WITNESS: Yes.
14	That is consistent with our consultant's
15	projections of the Company.
16	JUDGE MARSHALL: Okay. I just wanted
17	to be sure. Thank you.
18	THE WITNESS: May we go off the record
19	for just a moment, please?
20	JUDGE MARSHALL: Yes.
21	(A discussion was held off the record.)
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1	Raber	-	cross	
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JUDGE MARSHALL: Back on the record.

The numbers that you see on Page 4 of 4 are 2 A an interplay between the two effects that I mentioned before, namely; a continuing of conservation trends to some degree 4 coupled with a counter-balancing trend driven by disposable 5 income.

The relative impact of these things is 7 perhaps more visible if you look at the all electric custo-8 mers where you can see a continuation of conservation par-9 ticularly in the heating months. If you look at January, 10 February and again in December, there are significant de-11 creases in the use per customer and that indicates a pre-12 vailing of the conservation trend particularly for that 13 class of customer where the potential is greater. 14

For the other, for the NTE class, the 15 balance seems to be a little bit different, although take 16 December for instance, December 1931 incomes would be up 17 but yet usage is down a little bit, suggesting the conserva-18 tion trend has prevailed there. The numbers fall out that 19 kind of a balance. 20

Under a certain type of appliance, group of 0 21 appliances that are relatively energy intensive, the TV 22 set, the washing machine, the refrigerator, whatever, 23 air-conditioner, and as these appliances break and people 24 go out and buy new ones, doesn't this change the appliance 25

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2p 2	Raber - cross
1	mix continuously in the service territory?
2	A I'm troubled a little bit with some of your
3	words, as appliances break and are replaced.
4	Q Yes.
5	A That's one of the things that happens. The
6	other thing that happens includes buying more of certain
7	types of appliances, and perhaps not buying more of other
8	things, and that's what changes the mix of appliances in ad-
9	dition to just replacement of older appliances with new ones.
10	Q Let's focus on replacement of appliances that
11	break.
12	Is it not true that almost by definition
13	as the older one breaks, it's replaced with the new one?
14	A Generally speaking, I'd say yeah.
15	Q And is it not true that appliance manufacturers
16	today are making appliances that are much more efficient
17	in terms of energy usage than say eight to 10 years ago?
18	A For some appliances, that's true.
19	Q And so as a result, regardless of a price elas-
20	ticity effect or whatever, an individual has an appliance
21	that breaks, as long as he has the money or the credit to
22	replace it, there will be an incidental effect of more ef-
23	ficient usage?
24	A But as you yourself have pointed out, that's
25	an ongoing trend and that's captured in the forecast.

BATONNE, N.J. 07002 - FORM 2048

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2p 3	Raber - cross 405
1	. Q But it's only been in the last few years
2	though that those appliances have gotten that much more ef-
3	ficient. Isn't that true?
4	A That's true and if you look at that trand per
5	use of customer, I think you see that reflacted. The use
6	per customer of the total non-electric class is sort of a
7	saturating girth which
8	Q When this exhibit was prepared, July 1930 was
9	the forecasted. Do you have a weather adjustment of the
10	actual July?
11	A Yes, I do.
12	Q Can you tell me what that is?
13	A On a total basis, the weather adjusted actual
14	is 1071 gigawatt hours.
15	Q Do you have it worked out to a usage per custo-
16	mer basis?
17	A Not off-hand but we can get that fairly readily.
18	The number that I quoted you is for the total company and
19	that included commercial and industrial and other classifica-
20	tions as well.
21	Q So that was in terms of replacing a forecasted
22	number with an actual number. If we look at Page 3 of 15 of
23	JC-A, I take it that the 1980 July figure in the first column
24	at the top of 1091, that 1071 is the actual number that would
25	replace it?

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PENGAD CO., SATONNE, N.A. 07002

405 Raber - cross 2p 4 1 I'm sorry, just give me a moment to find the A 2 page that you refer to. Three of 15? 3 0 Page 3 of 15 of JC-A. 4 A Now, you wish to replace the July number on 5 this table and you read a number of 1091? 6 Yes. You just gave a figure of 1071 as being Q 7 the actual. 8 Yes. The 1071 would replace the 1042. There A 9 is two columns to the right of the 1091. There has been a downward adjustment, 49 gigawatt hours to adjust the budget 10 number to the July forecast. So that the 1071 replaces the 11 12 1042, I think. Would you be able to provide us with --- not 13 0 today necessarily --- with from Page 4 of 4 the residential 14 kilowatt hours per customer --- you have the estimates there 15 for July of 635 for the non-total electr.c, 782 for the all 16 electric. Would you be able to calculate actual numbers 17 based on the more updated figures? 18 You mean the actual use per customer? 19 A Yes. 20 0 Yes, we can calculate those. A 21 There was a nine plus three budget last Sept-0 22 ember and three plus nine budget which came out about April 23 of this year. I wonder if you would also be able to provide 24 for us or calculate from those budgets the average use per 25

. 5	Raber - cross 407
1	customer for both non-total electric and all electric so we
2	could compare those to the actuals that were experienced in
3	January through July of 1980?
4	A We can certainly provide that information.
5	Q Okay.
6	MR. MAKUL: I think that's all.
7	JUDGE MARSHALL: Okay. Miss Bello?
8	MS. BELLO: We have no questions.
9	JUDGE MARSHALL: Mr. Sahradnik?
10	CROSS EXAMINATION
11	BY MR. SAHRADNIX:
12	Q Mr. Raber, while I was listening intently
13	when you were discussing about your inability to reall;
14	quantify the price elasticity, and in essence what I under-
15	stand you as saying is it's basically a failure to be able
16	to predict the reactions of the people, your ratepayers,
17	to increase and decrease?
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A At any one point in time for any specific in crease, yes.

3 Q Have you had the opportunity to attend any of
4 the hearings in the service areas on this matter?

A I have not had the opportunity to do so for
this case, but I have in the past occasionally attended
hearings, yes.

8 Q So you are unaware, then, of the reactions of 9 people and, for example, in Ocean County, which I represent, 10 to this proposed increase and past increases, correct?

A I have been told of the reaction of the people
who were have the other day. I know that the Company is very
sensitive to this.

I do not think the Company takes this lightly. I think the Company appreciates the difficulty that particularly people in low income brackets and senior citizens have with the rate increases and they are not asked for without some measure of concern for them.

19 Q Are you aware, has the information been con-20 veyed to you what the attempts of these individuals, the 21 people who appeared at the meeting were with respect to 22 conserving electricity and their view as far as their intent 23 to do all possible to conserve electricity?

A I have heard that expressed. I don't know
 how to quantify that.

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Are you familiar with the makeup of Ocean Are you familiar with the makeup of Ocean County, the residential makeup with respect to the percentage of senior citizens?

A I personally am not all that familiar. People
on my staff are. I gather that there are many senior citizens
in Ocean County?

Q That's correct. Are you also familiar with the fact that a lot of people, basically, it is general knowledge, have moved down to the area in an attempt to escape the higher prices in north Jersey?

A May I ask you a question?

Are these, particularly the senior citiare these, particularly the senior citizens, aware of the Lifeline Benefits and the other benefits that are available to them in the way of mitigating their tillity bills?

Q No, sir, I don't know that I specifically can
answer that. I think you would have to perhaps come down to
a hearing and maybe that can be asked through the people who some
are attending in OceanCounty. There have also been/organizations, for example, the People's Utility Fight and the
Wattless Wednesday Movement that are active in Ccean County.
Are you aware of them?

A I am aware of the existence of these organizations, yes.

And the fact that they are advocating perhaps

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with respect to energy conservation throughout the service area?

So are we.

MR. XIRSTEN: I might say in that regard that the questions of rate design, which I think is implied in Counsel's question, the question of time of day pricing, the effect of conservation on rate design, are areas which I think are more within the expertise of Mr. Carter who has submitted testimony on rate design.

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He has addressed the question of low management programming and the time of day price experiment and some of the people that Counsel referred to in Toms River complaints were with the time of day rate, and that is an area that Mr. Carter has specific knowledge.

18 MR. SAHRADNIK: I would like to follow 19 up with some questions, Judge, specifically 20 with the concept of price elasticity and 21 residential users.

Q Given the information conveyed to you from some of the statements made by the people at these hearings and your knowledge of the larger citizen makeup of the community down there, aren't you in a better position to

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1 predict ... reaction of the people? It seems to me for Ocean County there is, giving all of the criteria, the move-3 ments to promote conservation, statements at the public hear-4 ing, don't you feel that you can realistically expect a 5 conservation greater than that anticipated in the figures which were just revealed?

> MR. KIRSTEN: I have to object to the form of the question because the testimony at the hearings was not only that there was conservation, but that there were in many instances the inability of some of those people to conserve any more which would indicate a lack of any further price elasticity.

> So that the implication that the desire to conserve, and there is also testimony that that desire to conserve had reached the maximum point and there was no longer any room for future conservation, so that the implication of the question in view of the fact that not Mr. Raber was/there and aware of all the testimony that was submitted or the fact that there was such testimony, I think may be somewhat misleading.

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1 JUDGE MARSHALL: An objection has been lodged to the form of your question. Do you 2 want to answer or do you wish to withdraw the 3 quastion? 4 MR. SAHRADNIK: Your Honor, I don't 5 recall the testimony that Mr. Kirsten has 6 stated, but perhaps I can ask it this way. 7 8 There certainly is a potential for more con-0 servation in Ocean County in this service area than you 9 would admit, correct? 10 I think there is a potential for conservation A 11 everywhere, yes. 12 The movements that you are aware of, the 13 0 the People's Utility Fight, / Wattless-Wednesday Group, these 14 are something that have occurred in the recent, let us 15 say, five to six months to take on significance, is that 16 correct? 17 Yes. Let me agree with you that I have been A 18 aware of them for about that long. 10 And to the extent that these efforts are 0 20 being undertaken in your service area, separate and apart 21 from the Company's own efforts, isn't it realistic to as-22 sume that there will be a greater degree of conservation 23 that was originally anticipated by the Company? 24 I don't have any basis to draw that conclusion A 25

2q 2	Raber - cross 413
1	for the following reasons:
2	One is Ocean County is a portion of the
3	Company's service area and the numbers that I am quoting
4	here are representative of the service area in its entirety.
5	Secondly, it depends on whether the
6	conservation actually takes place and not what the potential
7	is. The potential may be there. It may not be related and
8	as Mr. Mirsten has pointed out, there have been some dis-
9	cussions at least of an inability, or call it inability to
10	conserve further. Half the people in Ocean County have
11	taken the easy stops and the next ones are going to be very
12	difficult.
13	Q But Mr. Raber, you don't know that, do you?
14	A No, I don't. That is why I cannot quantify
15	this price elasticity effect that you are groping for any
16	better than I can. I don't know.
17	Q And certainly you are not saying that the po-
18	tential for conservation has peaked in Ocean County or any
19	where else in the service area?
20	A No, I am not saying that it has peaked.
21	Q Let me ask you, directing you to one other
22	area, inquiry. In the past few days you were volunteered
23	as the expert to update us on the activity of the Company
24	with respect to the use of refuse to generate electricity.
25	A I remember being so volunteered.

PENGAD CO., BATONNE, N.J. 07002 . FORM 2048

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Q Could you update us on that?

A I will give you the benefit of what knowledge I have. Please understand that this effort is not being conducted through my department and my knowledge of it is not very detailed.

Q Would there be someone else more appropriate to give this answer?

Let me say what I was going to say.

MR. KIRSTEN: I think that Mr. Bright made some specific reference to the use of the project, for the use of refuse as a matter of, I think it was in South Amboy, in his testimony which was given on Wednesday, I believe.

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MR. SAHRADNIX: That's correct, but in pursuing the matter, Mr. Bright stated that Mr. Raber would be able to update us on current activities in his capacity of planning and what have you for the Company and I was wondering if we can get an update?

MR. KIRSTEN: Go ahead.

THE WITNESS: Let me update you. The organization that is interested in building a power plant, fuel by refuse, is Resource Recovering Associates. Jersey Central actually

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has a letter of intent with Resource Recovering Associates to pursue energy from them from such a plant. It is my understanding that Resource Recovering Associates has lined up a refuse stream and contract for this refuse stream that they are now in the process of lining up financing for the plant and involving other things such as real estate negotiations.

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The plant in question would be designed to deliver 100 megawatus to the system. The construction time for this plant would be about three years and there would be at least a year involved in wrapping up the financial arrangements and so on coupled with licensing activity and that presumes a well-expedited licensing effort which the Jersey Central people hope will come about.

The key point for it particularly for the purchase of this proceeding is that plants cannot be on-line in less than about four years which means it can have no impact one way or the other to what in the period of time of interest to either of the cases being discussed here.

MR. SAHRADNIK: Thank you. That's all

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2q 5	Raber - cross	410
1		I have.
2		JUDGE MARSHALL: For clarification,
3		the Resource Recovering Associates, is that
4		the group backed by Combustion Equipment?
5		THE WITNESS: I'm sorry, I don't know.
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PENGAD CO., BAYONNE, N.J. 07002

	Raber-cross 417
1	FURTHER CROSS EXAMINATION
2	BY MR. MAKUL:
3	Q I would like to ask a couple of followup ques-
4	tions prompted by Mr. Sahradnik's particular questions.
5	As you are probably aware, there are
6	some electric protest groups in your service territory, and
7	my understanding is that some of them are advocating using
8	as little electricity as possible as sort of a free speech
9	expression of their displeasure, a political statement of
10	their displeasure with Jersey Central Power & Light in their
11	rates.
12	Would it be fair to say that if, indeed,
13	there is any fort of response by customers in such a way
14	that this is something that goes beyond normal price elas-
15	ticity?
16	A You're suggesting a strike, if you will, and
17	suddenly somebody does something?
18	Q A usage strike.
19	A A usage strike. If that were to persist for
20	any period of time, I would say yes, that it might be some-
21	thing above and beyond the normal trend.
22	Q And the forecast that you make is based on
23	past trends, such a movement is a deviation from past trends
24	and, therefore, would not be captured in the methodology
25	to project sales?

PENGAD CO., BATONNE, N.J. 07002 . FORM 2048

	Raber-cross 418
1	A That is correct. I offhand recall no major
2	user strike.
3	Q Neither do I.
4	As one more information request, on
5	JCA, page 3 of 15, the second column is the adjustment to the
6	budget sales, and I am wondering if you could break that down
7	for us in an exhibit or whatever, into the major groups of
8	residential, commercial and industrial.
9	A Yes, I am sure we can do that.
16	MR. MAKUL; I think we have another
11	request, but we can deal with you during the
12	break.
13	THE WITNESS: I'm not sure I like that,
14	you will deal with me during the break.
15	MR. MAKUL: I will ask you it is an
16	involved thing that I think we're asking for.
17	JUDGE MARSHALL: Any redirect?
18	MR. KIRSTEN: NO.
19	JUDGE MARSHALL: Are there any further
20	questions from anybody?
21	(No response.)
22	JUDGE MARSHALL: We will take a 15
23	minute break now.
24	(Whereupon, a recess was taken.)
25	

PENGAD CO., BAYONNE, N.J. 07002 . FORM 2046

1	JUDGE MARSHALL: We'll go back on the
2	record now. The Court Reporter will swear
3	the witness in.
4	H. LAWRENCE GOLDSTEIN, called as a witness
5	on behalf of Jersey Central Power & Light Company,
6	being duly sworn, testified as follows:
7	DIFECT EXAMINATION
8	BY MR. KIRSTEN:
9	Q Mr. Goldstein, will you please tell us the
10	nature of your position with GPU organization?
11	A I'm ranager of Fossil Fuel Forecasts and
12	Planning.
13	Q And are you familiar with the fossil fuel fore-
14	casts which were incorporated in the various exhibits which
15	ware prepared by Mr. Gentieu for the purpose of these pro-
16	ceedings?
17	A Yes, I am.
18	Q And are you prepared to support the estimates
19	of forecasts of the costs of oil, gas and coal as set forth
20	in those exhibits?
21	A Yes, I am prepared.
22	MR. KIRSTEN: Mr. Goldstein is avail-
23	able for cross examination
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PENGAD CO., BATONNE, N.J. 07002 . FORM 2944

1	Goldstein-cross 420
1	CROSS EXAMINATION
2	BY MR. MARUL:
3	Q Good afternoon, Mr. Goldstein. Mr. Goldstein,
4	for the clause period, what assumptions did you make regard-
5	ing fuel oil prices, that is to say, the average price for
6	fuel oil consumed in this proceeding, would that be found
7	on JCA 3, page 2 of 3?
8	A Can you repeat the exhibit?
9	Q JCA 3, page 2 of 3.
10	A Yes, I am.
11	The question?
12	Q Yes. The average prices assumed for the
13	various types of fuel oil, I take it it's \$40.88 per barrel
14	for No. 2 oil.
15	A Correct.
16	Q The price for No. 6 oil, .3 percent sulfur,
17	is 36.77?
18	A Correct, for .3 percent sulfur.
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PENGAD CO., BATONNE, N.J. 07992 - FCHM 2045

s 1	Coldstain - cross 421
1	Q And for one percent No. 6, it is \$30.30?
2	A That's correct.
3	Q And that comes up with a weighted average
4	price for No. 6 oil of 35.24 and a total average oil cost of
5	37.54?
6	A That's correct.
7	Q Now, of course, if you are able to make the
8	gas adjustment, these numbers come down somewhat on the
9	basis of given some consumption?
10	A And generation.
11	Q And generation. I see you made no express
12	calculation for any six oil higher than one percent sulfur,
13	is that correct?
14	A That's correct. We do not burn anything above
15	one percent sulfur fuel oil.
16	Q But my cross-examination of Mr. Steger this
17	morning, he indicated that the Central Hudson Plant burns
18	a high sulfur, I believe it is 2.8 percent sulfur six oil.
19	A Central Hudson Plant does.
20	Q And in order to calculate an escalation rata
21	for the cost of that unit, he had to get an oil price es-
22	calation from somewhere and so he used the oil price escala-
23	tion that I believe you developed.
24	A Central Hudson Plant is not one of our plants.
25	It 's not a Jersey Central plant.

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1	Q I realize it is not an Jersey Central plant,
2	but it does burn fossil fuel and in order to develop this
3	Levelized Energy Adjustment Clause an assumption has to be
4	made as to what the price of this fuel will be at that plant.
5	I believe Mr. Steger indicated that he used Jersey Central
6	numbers.
7	A Escalation numbers?
8	Q Yes.
9	A That probably is correct.
10	Q That would mean that he was using your escala-
11.	tion assumption for six oil, I would imagine, since that
12	plant burns six oil?
13	A Yes, that is true.
14	Q But it is a different grade of six oil?
15	A Right, it is a high sulfur grade.
16	Q Would you expect that a high sulfur grade of
17	six oil would rise in price at the same rate as the .3 per-
18	cent and 1.0 percent?
19	A Prior to March, I would have expected that
20	to occur. What has happened in the marketplace is the
21	high sulfur grade of fuel oil has not escalated as every-
22	body expected them to escalate. The fact, of course, is
23	that it has come down. What I have projected in my escala-
24	tion rate was approximately a \$10 a barrel increase in the
25	cost. Now, to the extent that costs are now firming up,

we could very well arrive at a \$10 a barrel increase over 1 2 the year. 3 0 By a \$10 a barrel increase, you are telling me a \$10 per barrel increase in all three types of oil, 4 5 the No. 2 oil, the low sulfur 6 and one percent? I would take that back and say from the point 6 A in time we are today, from the point in time that we have 7 8 our budget, the \$10 would hold true for the distillate oil. 9 We have in there about a \$4 per barrel increase in the cost of the resids and that would be relatively across the board. 10 That would be to the end of the year. 11 To the end of which year? Q 12 The end of this year. A 13 The end of 1980? 0 14 The end of 1980. You want it for the whole A 15 LEAC period, is that what you are asking? 16 0 Yes. 17 The cost I would project over the LEAC period A 18 for the distillate and the resids are as follows, and these 19 would be a purchase basis as opposed to a burned basis. 20 The cost of distillate oil I would 21 project over the LEAC period would increase from September 22 through August by \$7.23 a barrel. The cost of 3/10ths per-23 cent sulfur oil would increase by a total cost of \$6,35 a 24 barrel. The cost of one percent sulfur oil would increase 25

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40 CO. BAYONNE. N.J. 07002 - FORM

• 1	Goldstein - cross 424
1	by \$5.20 a barrel. I would suspect that to the best of
2	my knowledge, I would suspect that you would see the same
3	thing for higher grades.
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11	양양 가슴 전 백양 · 그렇죠? 그렇는 것 같은 것 같아요?
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FENGAD CO., BAYONNE, N.J. 07002 - FORM 2048

108M 1048

PENGAD CO., BAYONNE, N.J. 07002

	Goldstein-cross 425
1	2 Is there any document in the submissions made
2	for this proceeding where we could spot those increases?
3	A Yes.
4	Q Which one is that?
5	A JC-P.
6	2 Nould you give us & moment to find that.
7	A That would be page 4 of 5.
8	Q I believe for the purposes of the clause, how-
9	ever, the fuel clause that is taken into account is the fuel
10	clause as burned.
11	I wonder if you can explain how the num-
12	bers in JC-F, page 4 of 5 which are the as burned, how they
13	relate to page 2 of 3 of JCA-3 which are the as burned.
14	A The purchased costs are the costs that we
15	predicate our escalation on. They are related to the as
16	burned costs via inventory adjustments or inventory to the
17	extent that we purchase oil, it goes on to the inventory or
18	we have a weighted average cost of the inventory and that
19	is what they determine as the as burned cost, so if a station
20	that has significant inventory, your cost, your burned cost
21	end to lag your purchase cost by one dollar or so, and I
22	think that we can compare the purchase cost with the burn
23	cost and see this.
24	For example, over the test year filing
24	I have an average cost of 2 oil of \$42.32. The average cost

426 Goldstein-cross on an as burned basis of 2 oil is \$40.33. The difference 1 2 represents inventory lag. 3 For the 3/10th percent sulfur fuel oil 4 I have an average purchase cost of \$37.57, and a burn cost 5 of \$36.77, a difference of about \$1.00. 6 For the 1 percent sulfur fuel oil we 7 have a purchase cost of \$31.52 which we are forecasting. The 8 burn costs we have are \$30.30. 9 Now, these are on a non-adjusted basis. 10 When we adjust for gas it changes a little bit because we have 11 a change in the mix/fuel, so that is the relationship between 12 the burn cost and the purchase cost. 13 Now, this inventory lag, the time between which Q 14 the oil is purchased to the time it actually comes burned off 15 in terms of, as it is treated, do you use what is called a 16 first in, first out accounting basis? We use a weighted average cost basis which is 17 A not first in and it is not last out. It is not FIFO and it 18 19 is not LIFO. It is the weighted average cost. 20 I wonder if you can explain about what kind of Q 21 time lag do we have when you are talking about inventory lag, 22 between the time when you make a purchase at a price and that 23 price winds up being reflected through totally in the burned 24 rate? 25 Our inventory policy has been about 20 days A

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supply for each station for residual fuel oil. For distillate fuel oils which are primarily used in the combustion turbines we try and maintain a 50 hour to 100 hour requirement so on a residual basis the 20 days represents almost a month so it might be a month lag, but then on top of that there are all of the inventory adjustment losses in products which are not accounted for in the purchase.

8 Q If I might back up a few steps. With respect 9 to Central Hudson, I believe, am I correct, that your final 10 position on that is that the 2.8 sulfur oil that is burned 11 there would not be expected to escalate in cost at the same 12 rate as the 1 percent or .3 percent sulfur oil?

A What I am saying hare is that to the best of my knowledge I would think it would approximate. The absolute cost increase that we see for one percent sulfur may be \$5 a barrel, \$5.50 a barrel, realizing, of course, that there are market forces at play here.

18 Q Well, all right, maybe you can explain what
19 that means.

In making your forecast, did you initially disregard that there were market forces at play? A As I said, I am primarily concentrating on forecasting Jersey Central Power & Light's escalation, not other escalations, not other fuel escalations.

Let me expound on what I mean by market

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forces at play.

The current price of 2.3 percent sulfur fuel oil is fairly depressed at this point because there is not a big demand in the New York Harbor. The New York Harbor is essentially 3/10ths of a percent sulfur fuel oil, so to the extent that there is not a demand, the price is decreasing or lower than what the traditional relationship would normally be. 

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1	A (Continuing) In New England, which uses high
2	sulfur fuel oil, the price would be more reflective than
3	that. Now, in terms of dollars well, most of our product,
4	most of our residual fuel oil comes from Venezuela or the
5	Caribbean.
6	If we use the official minimum purchased
7	price of Venezuela, we end up with these differentials, about
8	roughly an \$8 barrel difference between the .3 percent sul-
9	fur and the 2.8 and roughly about a \$4 a barrel difference
10	between the one percent and 2.8 on an accurate basis.
11	Q Those are the official prices, I believe you
12	stated?
13	A Those are the official prices. If we got to
14	spot prices, spot cargos in New York Harbor, the price dif-
15	ferential is essentially the same.
16	Q Is not the market for cil to some extent
17	greater than just in one harbor? Isn't it an international
18	supply and demand situation?
19	A Yes, it is, but to the extent that .3 percent
20	s ulfur fuel oil is primarily consumed probably roughly 90
21	percent is consumed in New York Harbor, that's where the
22	market is.
23	One percent is a commodity that's
24	known as national. 2.8 percent is sulfur residual fuel
25	oil, a product that's primarily sold in New England.

PENGAD CO., BATON E. N.J. 07002 - FORM 2048

So, insofar as different grades are concerned, the markets are --- distillate oil is produced primarily in the United States. We import very little.

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But it would be very difficult to have a very 0 high or low price of 2.3 percent sulfur oil in New York Harbor as compared to New England in that if that whe so, there would be a pretty lucrative business in buying it in one place and transporting it to another. Is that not correct?

That's very true. So, what you see posted in A New York Harbor --- about seven months ago, eight months ago when there was a supply shortage, distillate --- rather residual fuel oil, the 2.8 percent sulfur, carried a price tag of \$11 below a tenth percent sulfur grade, but that was an artificial price again because there is no market for that in New York Harbor.

If you want to try to buy that, the price would come down to the traditional spreads like \$5 a barrel.

Now, with respect to the oils that are burned 0 21 by other utilities, the reason why --- I realize that you are only the oil buyer for Jersey Central or oil price projector ----

Oil Forecaster.

Oil Forecaster ----

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Goldstein - cross

And Planner, yes. 1 A And Planner, however, in talking to Mr. Steger 0 he did use your oil assumptions to forecast what the prices 3 of oil would do to the PJM running rate? 4 That is correct. Now, to the extent that there 5 A is a couple of plants to t burn the high sulfur fuel oil, if 6 he applied the rates that I used for Jersey Central, then 7 he's talking about a \$5.70 barrel differential. 8 You're saying that he would have used the 9 0 same escalation rates that he used but ---10 Exactly. A 11 Which would mean that he essentially ---- I 0 12 guess a corollary would be that the spread between a high 13 sulfur six oil and one percent six oil would not be increas-14 ing, according to his assumption? 15 That's correct. If you use the escalation that A 16 we applied, you would apply it across the board. To the 17 extent that the absolute price is different, then if you 18 apply the percentage to it, you're going to get a change in 19 dollars. 20 When was your forecast of burned prices made Q 21 that we see in JC-A-3? 22 This represents our three plus nine budget 2 23 and I started preparation of the 3+9 budget probably in 24 January. 25

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PENGAD CO., BATONNE, N.J.

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1	Q And when was the document completed in the
2	form of these numbers that are on page 2 of 3, if not actually
3	written on this page, at least where you had everything
4	together where it would be a simple process to get these num-
5	bers?
6	In other words, when were your assump-
7	tions frozen?
8	A The assumptions were frozen, ch, I would say
9	in March.
10	Q In March. What was the status of the market
11	for oil in March as compared to now?
12	A The prices in March were just starting to
13	decrease.
14	Q So, we were essentially
15	A Let me finish that. The prices for oil were
16	starting to decrease for specific grades of oil, primarily
17	for the higher sulfur grades.
18	For the distillate oil, prices have
19	never decreased. Prices have, indeed, increased over the
20	last six months. Low sulfur .3 percent fuel oil, which is
21	probably the largest grade of fuel that we consume, was
22	maintaining its price. Let's say the prices were not es-
23	calating.
24	The higher sulfur grade like 1 percent
25	were/starting to come down. There was some price movement

downward.

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Q Do you know what's happening to the 2.3 percent?

A No, I don't. I would say that the prices were coming down there also because I kind of -- I know that in April, May, those were the grades, primary grades, that were cut, decreased by the Wenezuelan government, By Exxon.

You know, once the Venezuelan government
decreases those grades, those grades are then decreased by
the suppliers, Exxon and all the other suppliers in New York
Harbor. They're passed along to the consumer in a decrease.

Q I asked Mr. Steger this morning if he knew in the various other oil-fired generating stations that are within the PJM system, if he knew what grades of oil were burned at those various generating stations. He indicated he did not, that he just took the prices or started with the prices that were shown for those units.

A Yeah.

19 Q Are you aware of what grades of oil are burned
 20 at the various portions of PJM?

A Yes, I am.

22 Q Can you review that for me, plaase? 23 A For the most part, the New York Harbor, again, 24 Public Service, burns a .3 percent. If we go out to Pennsyl-25 vania, we go up to 1 percent. I believe Delmarva, Delaware

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and Maryland burn either a 1 percent -- I don't know how high it goes. I think it's 1 percent of .3 percent, and they all burn the same grade of distillate.

4 Q So, you're saying that no one in PJM is burning 5 2.8 percent?

A Routinely, I can't say that I know of anybody that is, although you mentioned somebody, the Hudson plant.

Q That's not in PJM.

A Yeah.

10 Q I take it that GPU is not unique in having an 11 oil price forecasting person at all major utilities, your 12 counterpart?

A I would say yes. I would say that most of the
 utilities do have my counterpart.

15 Q Now, as part of our information request, JCA.4,
 16 which was the projections of the PJM running rate made by
 17 PJM and -- I'm sorry, JCA.2, not JCA.4.

MR. KIRSTEN: A.2?

MR. MAKUL: Yes.

20 Q I don't know who these people are on the operating 21 committee up at the top there or who are members of the 22 production cost task force, but I would imagine that they 23 received input from various utilities of what their cost, 24 projected costs of fuel would be in terms of coming up with 25 a PJM operating forecast. Does that sound logical?

	Goldstein-cross . 435
1	A I don't think we ever discussed fuel prices.
2	Q Never discussed fuel prices?
3	A I sit in on the fuel situation task force.
4	Q Yes.
5	A And that's consistent with all member companies
6	of PJM, and I can say that unequivocably we do not discuss
7	prices.
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PENGAD CO..

1	Q Well, all right. On Page 3 of 9 we have some
2	of the assumptions that went to the PJM running rate pro-
3	jection?
4	A Page 3 of 9?
5	Q Yes, of that JC-A.2, Page 3 of 9. You have
6	that?
7	A I'm sorry
8	MR. MAKUL: Why don't we go off the
9	record for a second.
10	JUDGE MARSHALL: Off the record.
11	(A discussion was held off the record.)
12	JUDGE MARSHALL: Back on the record.
13	Q Do you see, oh, about two inches up from the
14	bottom of the text there's a listing of assumptions on fuel
15	prices and the assumptions there essentially are that 1980
16	the price of the cil products will escalate by 20 percent
17	and 1931 by 15 percent.
18	How do these projections, which are
19	used for planning purposes, compare to your projections?
20	A 1980, my projection was 30 percent escalation;
21	1981, 20 percent.
22	Q So in total you're projecting a 50 percent
23	escalation?
24	A No.
25	Q I guess you have a compound effect.
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3t 2 Goldstein - cross

No. I'm projecting a straight escalation. A 1 Startin; in December of 1979 I would escalate the oil prices 2 -y 30 percent. Staring in 1981 I would escalate oil prices 3 - au percent. 4 What causes you ---0 5 Let me continue. Consequently, after the 3 A 6 plus 9 budget, we lowered our escalation because we had 7 three months of actual data in that escalation and so, 8 therefore, while we initially back in December indicated 9 that we would have a \$10 increase --- the 30 percent trans-10 lates to roughly a \$10 increase in the price of resid and 11 distillata oils. 12 After the first three months of actuals, 13 we then escalated the residual fuel oils by \$4 a barrel. 14 So, what we're saying is that our escalation rate was more 15 akin to the 20 percent than the 30 percent. 16 You're saying after the March modification 0 17 that you're more in line with the PJM projection for 1980? 18 Yes. A 19 But you're ---2 20 For our budget, for our official budget we're A 21 more in line with the PJM escalation rate for 1980. I am 22 at 20 percent for 1981. 23 And what do you know that PJM doesn't know? 0 24 What do I know that PJM does not know? That A 25

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3 CO. BATONNE, N.J. 07002 . FORM 2048

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Goldstein - cross

is the question?

Q Yes, assuming your's is correct and PJM's is wrong, which I realize we're looking at a crystal ball but obviously that's your belief.

5 A I think I have more information at my disposal. 6 I do not know my counterparts background. I happened to work for an oil company, I happened to work in refinery 7 8 operations. I think I have a very dequate knowledge of 9 the market situation, the world supply situation, therefore, 10 I think I can make an intelligent projection of costs. While we're on the subject of what we 11 know and what we don't know, I would like to go into the 12

mechanism for my projecting costs.

Q Fine. Why not now.

A What I have done and what I have used is a technique which is called the cost pass through approach. This is a technique that Data Resources has utilized and I believe most of the other econometric firms utilize that as well.

20 What it consists of is trying to deter-21 mine the cost increase of crude oil and then taking that 22 value and assigning it to the products.

For example, if the cost of crude oil for 1980 increased by \$10 a barrel, then we will say that the cost of the products would increase by \$10 a barrel.

CO., BAYONNE, N.J. 07002 . FORM

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PENGAD CO. BATONNE, N.J. 07002

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1	A (Continuing) To the extent that I have tracked
2	the last three years, I would like to read my price compari-
3	sons.
4	In 1978, the cost of crude oil, this is
5	the average refiner's cost of crude oil in the United States
6	from January to December of 1979, increased by 87 cents a
7	barrel.
8	At the same token, the price of 3/10ths
9	percent oil which we buy for Jersey Central increased by
10	\$2.49 a barrel.
11	The price of 1 percent fuel oil increased
12	by \$1.00 a barrel.
13	The price of distillate fuel oil in-
14	creased by \$1.38 a barrel, so we were paying more than the
15	cost of crude oil, just the sole increase in the crude oil
16	that one can say represents the refiner's increase in profit
17	margins.
18	In 1979, the difference between January
19	and December of 1979, the crude oil prices increased by
20	\$10.52 a barrel. By the same token, the price of 3/10ths
21	percent sulfur fuel oil increased by \$49.03. The price of
22	1 percent fuel oil increased by \$12.65. The price of
23	distillate increased by \$11.76.
24	Por the same period, for 1980, 1980
25	the cost from January through May of 1980, the costs have

increased \$3.04.

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The price of distillate oil has increased by \$5.04. The price of low sulfur 3/10ths percent sulfur oil has decreased by \$1.52, and the price of the lower grade of the more sulfur content residual fuel oil, 3.5. The 1 percent sulfur fuel oil decreased by \$3.50. The record shows that for every \$1.00 of increase solutions.

in crude oil cost, the utilities, and primarily Jersey Central

<sup>9</sup> utility as well as all New York Harbor utilites, since they <sup>10</sup> are New York Harbor prices, have paid more than that \$1.00. <sup>11</sup> So the mechanisms we used for projecting our cost, this cost <sup>12</sup> pass through approach, we tried to determine the cost of <sup>13</sup> crude oil and we say dollar for dollar that is passed on to <sup>14</sup> the product.

<sup>15</sup> Q Essentially, would it be fair to say that this <sup>16</sup> method assumes that the refiner and marketer will make the <sup>17</sup> same margin in terms of cents or dollars per barrel on each <sup>18</sup> barrel of oil he sells and so the only thing which is affect-<sup>19</sup> ing the market price, then, is the variation in the price <sup>20</sup> of crude?

A In a simplistic manner of explaining it, that
 is correct.

The difference in sulfur contents are in excessive refinery operations and costs, but the record shows that what is happening is the refiners are not only

1 taking their costs, but also increasing their profit margins.

Q In your view, is oil marketing a competitive business?

A Yes, I would say that oil, since there is no government action against the oil companies, I would say that oil marketing is competitive, in that sense.

7 Q Is oil refining a competitive business in that 8 sense?

A Again, I would say to the extent I really do
not know the costs that each refiner has, I am told that it
is competitive.

12 Q Do you know what refiner utilization is at
 13 present compared to a year ago or two years ago?

A Yes, a year ago it was running at a record rate,
I think above 93 percent.

16 Currently, I believe refinery utilization
 17 is 73 percent which is a record low.

18 Q Would you accept, subject to check, that in
19 yesterday's New York Times it stated that refinery utilization
20 at present is under 70 percent, I believe it was 69.9 percent?
21 A I would believe that.

Q Under such circumstances where refinery utilization was lower, would it be fair to say when refinery utilization is high that there is some indication that it is a seller market and where refinery utilization is low, it means

that people have spare capacity and things are getting more competitive, and that is becoming more like a buyer's market for refining, for obtaining refining services?

A I think in the United States' refineries,
traditionally, refineries maximize gasoline products and
distillate products.

Refineries do not produce excessive
 quantities of fuel oil. Refineries have traditionally made
 their money on pass through products.

Up until many years ago, refineries regarded refining organizations as a loss operation. That has all changed. Certainly there has been a decrease in the consumption of gasoline. Certainly our stocks currently of distillate oil are quite high. They are above the levels that -- well, let me retract that statement.

16The distillate levels are within the17normal range that the Department of Energy has set as a18target for what we need in October. Refineries are back down19on their refining runs because the tankage is limited.20In other words, they have an excess21capacity and an excess of products right now. There is no

22 question about that.

23 However, their costs are continually 24 going up and at this point in time I have not seen any 25 lowering of the refinery gate price for gasoline. I have

seen lower prices of gas at the stations which indicate to me that the dealers are decreasing their margin. Their margin was increased about a year ago or a year and a half ago where they were allowed to earn double or triple what they are previously earning. What they are doing stimulates the market to cut back.

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1 Q You have read nothing in the newspapers about 2 major oil companies dropping their wholesale price of gaso-3 line?

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A I read that spot market prices for gasoline is coming down in the Gulf Coast. I have not read anything at this point to indicate that there has been a drastic change in the efinery gate price in this area.

8 Q Is the refinery gate price the same thing, 9 like if you read in the newspapers about Texaco lowering 10 their price of gasoline?

Yes, but Texaco --- you are picking an unusual A 11 situation. Companies, for example, like British Petroleum, 12 BP, has access to North Slope crude. North Slope crude was 13 priced at a very, very low price relative to the world mar-14 ket prices. BP had a competitive advantage of about three 15 cents a gallon of gasoline, 5 cents a gallon of gasoline; 16 DEO, if you remember a couple of months ago forced BP to 17 raise their price and by the same token, Texaco has all 18 the disadvantages of high prices and to stay competitive 19 they have to take a reduction in their refinery price, their 20 refinery gate price. 21

22 Q If there was a reduction in the dealer margin 23 then that would force the refinery gate price ---

A I have not seen any data that would indicate a significant decrease in the refinery gate price. 2u 2 Goldstein - cross

1 Q You have read nothing in any newspapers or 2 trade publications to indicate that the major oil companies 3 are lowering their price of gasoline?

A I have read Platts. We get Platts Service. I 5 read it every day. I know what the market is. I know what 6 you're saying. Again, I say that I have not seen any de-7 terioration of refinery gate price.

8 Q With respect to the cost pass through approach, 9 that assumes that the market conditions are such that the 10 refiners or dealers, the distributors may be able to main-11 tair its profit margin on each unit of barrel, each barrel 12 that they handle? Isn't that the bottom assumption which 13 this whole thing rests upon?

A Let me go over this an illustrate a point. The price of crude oil from January to our current May went up \$3.04. The price of distillate oil went up \$5.04. That to me means that there is a \$2 increase in refiners or dealers' profits, right?

19 Q I'm asking you. You didn't answer the question. 20 What I'm asking is, is the whole basis of this approach, that 21 a refiner or a marketer is able to maintain its profit mar-22 gin?

A Again, my answer is that for every \$1 increase in the cost of crude oil, the cost market approach assumes a \$1 increase in products but it is not there. The product

sector of allocation of

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# 2u 3 Goldstein - cross

market has been more significant so that in every roll back 1 the price will not bring us down to the cost market approach 2 of a dollar for a dollar. What I an saying is that the dol-3 lar increase in crude oil price has translated to a \$1.50, 4 a \$1.60 increase in product price. What you are telling 5 me is that now, we will see a 50 cent decrease from the cost 6 of that product. I agree that might very well be but the 7 mint is that we will still see a dollar for dollar increase 8 in the cost of that product. 9

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10 Q It would appear to me, sir, that as sales are 11 dropping off, the volume consumed of oil drops off and I 12 think you would acknowledge that that is indeed happening,

13 correct?

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A Correct.

Q That dealers would find either individually or in an aggregate, their volume of sales are going down? A Their volume of sales are going down. The refinery costs are going up.

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1	Q Which, under normal economic theory, would mean
2	that in order to try to maintain or expand their overall level
3	of profits that they might take a smaller margin so as to get
4	a larger market share, albeit of a dwindling market?
5	A Let me rephrase the question to you and pose
6	this answer.
7	Q I don't answer the questions. I ask the questions.
8	A I will rephrase the answer this way.
9	OPEC, the traditional supply service
10	curve at OPEC is now a backward binding curve, backward
11	binding supply curve.
12	OPEC is cutting their products and
13	raising their price.
14	Q I am not talking about OPEC supplies. I am
15	talking about people who are marketing in this country and
16	refining in this country.
17	A But, you cannot sort the cost of crude oil
18	from the cost of products, and that is my contention.
19	Q I am asking you about your cost pass through
20	approach where you take the input price of crude, be it from
21	OPEC or whoever, as an input into the system and then you are
22	addingon a pass through.
23	I am asking you a question focusing on
24	the pass through, not on the cost of crude.
25	A The cost increase

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MR. KIRSTEN: I am sorry. I don't know if there is a question pending. I have not heard --

4 I guess the question pending is that given that 0 5 sales are dwindling and that before, for example, the refinery 6 capacity was over 93 percent indicating that there was very 7 much spare capacity around so people would not be in a position, 8 refiners would not be in a position to want to try to expand 9 their market share now with refinery utilization at 70 10 percent that refiners do have spare capacity and efforts to 11 maintain market position, maintain profits, would try to 12 expand market spares by perhaps taking a smaller margin?

A I think the refiners are doing exactly what
 the OPEC nations are doing. They are using a backbending
 supply curve.

Refiner utilization has decreased, less Refiner utilization has decreased, less products are being made. Therefore, the demand, if it is maintained at that level, will soon sop up the excess capacity.

Traditionally, the market, the demand for heating oil, the demand for distillate is in the wintertime, not in the springtime or summertime. We are approaching the wintertime. That is when demand picks up.

Demand will pick up from average of about 2 million barrels a day to as much as 5 million barrels

CO., BATONNE, N.J. 07007 . FORM 2

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1 a day during the wintertime so demand is certainly going to 2 pick up.

<sup>3</sup> Q So you are telling me that this is a normal <sup>4</sup> expected seasonal demand?

A That is what the market is all about. That is
 what the petroleum market is all about. It is a seasonal
 demand.

Q And inventories are higher even compared to
 9 the normal seasonal expected variations?

A I agree with your question, and to the extent
 that the refineries are cutting back products, that is, to
 dry up surplus and create an environment for continued cost
 pass throughs. That is why refinery capacity is down.

Q Now, we are in a situation where the refinery
 utilization is down, the tanks are quite full --

A Tanks are only full for one product. The tanks
are full for distillate oil. Residual oil has decreased and
is on the lower end of the DOE level at this point. Crude
oil tanks are very full.

20 Q Residual oil is a product which you get a fixed 21 percentage from every barrel of any particular crude that you 22 buy?

23 A Residual oil is a function of crude. There are 24 some crudes that give you more yield of residual and others 25 that give you less.

Traditionally, in the US, our residual fuel oils have amounted to about 20 percent of the barrel. I understand there is a lot of gas displacement Q programs that the federal government is encouraging and administering to back oil out of the utility. Would it be correct in assuming that most of the oil that is being backed out is residual? "he program was initially set up to back out A distillate oil. It is now being used to displace low sulfur, intermediate sulfur on the east coast. 

PENGAD CO., BATONNE, N.J. 07002 - FORM 2044

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. 1 Do you know if Public Service is displacing 0 1 2 oil with gas? Public Service is displacing oil with gas. A 3 Are there other utilities in that area that 0 4 is displacing oil with gas? 5 Jersey Central Power and Light is displacing A 6 oil. 7 It seems all these things combined would re-0 8 duce the demand for No. 6 oil? 9 There is a reduction in demand. However, A 10 given the fact that gas availability is not adequate in 11 the wintertime, there is a demand for residual fuel oil. 12 But the end effect is, is it not, is that 0 13 utilities who are very large users, very large parts of 14 the market for six oil have been through construction of 15 nuclear planes and gas for oil displacement and so on and 15 so forth, are they reducing their usage of six oil? 17 The usage of six oil has fallen off by about A 18 eight percent, 10 percent. Not everybody can displace 19 residual fuel oil with gas. One has to be able to burn 20 natural gas in their boilers. Not every utility has that 21 capacity and not every utility wants to engage in convert-22 ing their boiler to a gaseous fuel that might not be 23 available in a year's time. 24 So you are telling me then that despite the 0

#### 4u 2 Goldstein - cross

fact that about 20 percent of every oil that comes into refineries comes out as a residual oil and the fact that utilities are burning less of that oil, all of these things are totally irrelevant and the price of residual oil is going to keep getting bumped higher and higher as the price of crude oil goes up?

> MR. KIRSTEN: I object to that. That is not what the testimony says. No where does he say it is irrelevant. His characterization of relevant seems to disagree with Mr. Makul's characterization of why it is relevant. No where has he said it is irrelevant.

> MR. MAKUL: I asked several questices about the cost pass through approach and the fact that the volumes being sold were reduced and I believe Mr. Goldstein's response was that the supply and demand curve is somewhat bending backwards and that the spare capacity might, not that he used the word irrelevant, but that it is not really a factor and they are going to dry up these supplies to maintain that price.

MR. KIRSTEN: I disagree with you. He said that the reason that the utilization is because they are doing exactly the same

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1	thing OPEC is doing, reducing supplies to
2	maintain a high price so it is relevant to
3	prove that notwithstanding the reduction usage,
4	the price will still go up. That is relevant.
5	MR. MAKUL: I guess you misheard me,
6	Mr. Kirsten, because what I said was that Mr.
7	Goldstein's position was that a change in
8	usage is irrelevant to a change in price be-
9	cause
10	MR. KIRSTEN: It is not relevant. It
11	is relevant in the opposite direction.
12	MR. MAKUL: Perhaps the witness can
13	clarify it. The less that is used, the higher
14	the price will be. Is that the new supply
15	and demand law of economics we are operating
16	with?
17	MR. KIRSTEN: The less the supply, the
18	higher the price will be.
19	MR. MAKUL: And the reason why the
20	supply is drying up
21	MR. KIRSTEN: Because there is less
22	demand so they reduce the supply to maintain
23	a high price.
24	MR. MARUL: And that is so even though
25	22 percent of every barrel comes out as

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## residual?

MR. SAHRADNIK: I object because I think Mr. Kirsten is getting in a position as to testifying without having being sworn under oath.

MR. KIRSTEN: Because the way the question is phrased is argumentative.

JUDGE MARSHALL: Off the record.

(Whereupon, there was an off the record

discussion.)

PENGAD CO., BATONNE, N.J. 07002 - FORM 2048

1	JUDGE MARSHALL, Back on the record.
2	Do you still have an unanswered ques-
3	tion or was it resolved in the break?
4	MR. MAKUL: I didn't have any questions
5	answered during the break.
6	JUDGE MARSHALL: Okay.
7	The other Court Reporter isn't here
8	to read it back, so why don't you restate
9	your question. However, when you restate it,
10	before Mr. Goldstein answers, just wait a
11	second or two to see if Mr. Kirsten is going
12.	to object. If so, let him state his objec-
13	tion.
14	You can answer, but do not speak at
15	the same time.
16	Q Do you agree with the general statement, then,
17	that regardless of how much excess capacity there may be in
18	the refining industry and regardless of how little oil may
19	besold through marketers, that that will never reduce their
20	margin in the form of a pass through in terms of their
21	a margin on each barrel handled?
22	JUDGE MARSHALL: Excuse me. Could
23	the Court Reporter read back that question?
24	MR. MAXUL: I'll repeat it.
25	Q Are you saying in the clause pass through

Goldstein-cross 456 1 approach that the refiner, the marketer, will always take the 2 same markup on each barrel of oil regardless of how slack 3 the demand may be for the product? 4 What I am saying is that the refiner will cover A 5 his costs of crude oil in rafining costs. 6 He may back off on his margin a little 7 bit. 8 What I have done is try to illustrate 9 that the refiners' margins have increased over the past 10 three years. To the extent that they have increased more 11 than the cost of his crude oil, he can back off somewhat. 12 But the time period from 1978 through '79, 0 13 was that not a period of very rapid escalations in the world-14 wide price of oil? Well, 1978 was not. Average crude costs went 15 A 16 up only 87 cents through the whole year. 17 19797 0 1979, yes, it was, but if we dwell on 1973 as 18 A 19 a basis here, the refiners' margins more than doubled. Would you agree that in the 1979 period that 20 0 perhaps demand at that time was artificially stimulated by 21 something called panic buying? 22 There was a definite shortage of oil in 1979. 23 A The Iranian situation developed back in '78 and it was a 24 backout of roughly two million barrels of oil in the market-25

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<sup>1</sup> place. I wouldn't say that it was panic buying. I would <sup>2</sup> say it was necessity buying.

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Q What was refiner utilization a year ago?
A Pretty close to 90 odd percent, I believe.
Q And it's now 70 percent?
A 70 percent.

Q If there was a shortage of cil, where did they get all the cil to refine to get 93 percent utilization?

A A lot of it came out of their stocks.

Q And inventories were getting lower?

A Inventories -- in 1979, the winter of 1979, there was a panic to build up inventories of distillate oil

in this country and --

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It was a panic condition?

A I wouldn't call it a panic, but there was a
 lot of incentive to build up inventoriesbecause the inventory
 targets were way below what the DOE had set as an official
 goal and this is the winter of 1978/1979.

Q As a result of this, this panic, which was
 your word, I'll just call it a determined effort to build up
 inventories of heating oil, refinery utilization was high?

We imported a large amount of distillate.
 Also, refinery utilization was high because of gasoline
 production which was also being produced. We were maximizing

Refinery utilization was high.

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1 distillate, but also producing considerable amount of gasc-2 line.

We had to get these products, it was felt, in case of a cutoff of supplies and the refineries were sitting very pretty with respect to the fact that it was a number one top priority national program, to get that cil refined in the form of distilled products?

> MR. KIRSTEN: I object to the characterization of "sitting pretty". I don't know what that means.

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MR. MAKUL: They were able to have a 93 percent utilization.

JUDGE MARSHALL: Could you read back the original question?

(The Court Reporter read back the following:

Question: We had to get those products, it was felt, in case of a cutoff of supplies and the refineries were sitting very pretty with respect to the fact that it was a number one top priority national program, to get that oil refined in the form of distilled products?)

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1	JUDGE MARSHALL: And the objection was?
2	MR. KIRSTEN: The form of the question.
3	I don't know what the characterization "sitting
4	pretty" is and I don't understand what the ques-
5	tion is.
6	MR. MAKUL: By sitting pretty I meant
7	that they were able to refine a lot of products,
8	get and maintain a profit margin and they made
9	a lot of money.
10	JUDGE MARSHALL: With that definition
11	of "sitting pretty", does the witness under-
12	stand the question?
13	THE WITNESS: I don't. I'd like it
14	read back.
15	JUDGE MARSHALL: Okay. Could you read
16	it back again?
17	(The Court Reporter read back the fol-
18	lowing: "Question: We had to get those
19	products, it was felt, in case of a cut off
20	of supplies and the refineries were sitting
21	very pretty with respect to the fact that it
22	was a No. 1 top priority national program,
23	to get that oil refined in the form of dis-
24	tilled products?")
25	MR. MAKUL: I was asking him to

27	2	Goldstein -	cross
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comment.

MR. KIRSTEN: I really have to object to the form of this examination, sir. This is not a matter of commenting and then conversation. I can't see how you can pass on the relevance of a question when there's no question.

MR. MAKUL: I think the question then is --- I was asking a question, as I recall, Mr. Kirsten, and you objected and broke the question.

BY MR. MAKUL:

Q How does that compare to the present business environment that the refiners find themselves in? MR. KIRSTEN: I object to the form of the question as irrelevant. MR. MAKUL: It is not irrelevant. MR. MAKUL: It is not irrelevant? MR. MAKUL: The relevance? MR. MAKUL: The relevance is he's using a cost pass through approach pursuant to the same number of cents or dollars per barrel regardless of market conditions and he's citing figures to justify that of 1979 as to what the pass throughs were and the point. that I'm trying to make is that the business

environment that the refiners are in today is substantially different than the business environment that the refiners were in in 1979.

MR. KIRSTEN: It seems a lot simpler if you asked him that question, is the environment different and if so in what way and what impact did that have on the pricing and we can follow the line of questioning. I cannot follow the line of questioning and I think it's irrelevant and immaterial the way you posed it.

JUDGE MARSHALL: It may have been somewhat ungrammatical in certain respects, but it does have a certain relevancy. So, I'll deny the objection.

THE WITNESS: Can I have the question read back?

(The Court Reporter read back the following: "Question: How does that compare to the present business environment that the refiners find themselves in?")

A The present business environment for the refiners can be characterized as follows: The refiner's acquisition cost of crude oil has increased. That cost has to be passed along, therefore, the refinery has cut down on

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4	Goldstein - cross 462
1	a utilization, the refinery has cut down on capacity, and
2	they're now down to a utilization factor of 73 percent or
3	70 percent.
4	The major point is that refinery costs
5	have indeed increased in terms of acquisition of crude oil.
6	If one buys a barrel of oil at \$35 a barrel and he makes
7	all gasoline and he sells it for 83 cents, he's not going
8	to stay in business very long because that 83 cents is not
9	enough to cover that barrel of oil.
10	Q Mr. Goldstein, you're twisting things around.
11	I'm not suggesting
12	MR. KIRSTEN: I object to the comment.
13	MR. MAKUL: I am not suggesting that.
14	MR. KIRSTEN: I object to the comment.
15	I move that it be stricken.
16	JUDGE MARSHALL: Okay. An objection
17	has been made that your comment be stricken.
18	MR. MAKUL: I'll accede to the objec-
19	tion.
20	JUDGE MARSHALL: Okay.
21	Q The scenario you posed where the cost of the
22	raw material was a dollar and the products sold for cless
23	than a dollar, that was not an example where it was a reduc-
24	tion of the cost pass through, rather, you went to a more
25	extreme example where the cost pass through became instead

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v 5	Goldstein - cross 463
1	of adding on the cost, the individual is losing money, and
2	that's not the question I posed, Mr. Goldstein.
3	The question I posed is that if a
4	product costs a dollar or if the raw material costs a dollar
5	and the refiner is making a margin of 10 cents, the end
6	product price of a dollar 10, that would it not be possible
7	theoretically that in times of low demand and severe over-
8	capacity, that the refiner might reduce his margin to some-
9	thing less than 10 cents in that theoretical example?
10	A Would you say three cents? Is that the ques-
11	tion you're posing to me?
12	Q The question I'm posing to you is if that as
13	opposed to that he might reduce his margin to 10 cents?
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I'm not arguing that point with you. My 1 A comment here is if the refiners' cost is a dollar and he, 2 in good times, charges \$1.10, in bad times he might charge 3 \$1.05, but that is not the point. 4 The point is that his costs in bad times 5 is going up. His costs have increased another dollar, he's 6 going to charge \$2.00 now to recover that cost. 7 Sure, his margin will be lower, but 8 he's not go ig to sell that product at \$1.80. The cost 9 pass through approach says that for every dollar increase 10 in the cost of his doing business, the cost of his crude 11 oil as a major cost, that is going to be passed on, in terms 12 of a price. 13 I'm not arguing margins. All I'm saying 14 is historically when there has been an increase in the price 15 of crude, the refiners and the distributors have seen fit to 16 raise their margins. 17 All I am saying is a cost pass through 18 basis is that, and when conditions are tight, the cost of 19 doing business -- the increased cost of doing business is 20 going to be passed on. 21 My contention is essentially that the 22 cost of crude oil is increasing. There is no denying that 23 the cost of crude oil has increased and we can submit offi-24 cial documentation to show that the cost of crude oil --25

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1 refiner acquisition costs of fuel oil has increased as crude 2 oil has increased.

> I have no dispute with that. 0

4 And to the extent that cost has increased, that A . 5 will be passed along in terms of product.

6 But that will be passed through, but the 2 approach that you used to come up with a product price assumes 8 that the margin remains constant?

9 No. I have not said that at all. In my cost A 10 pass through approach, I have increased the cost of the 11 product by the price of crude oil. I say if crude oil went 12 up \$10 a barrel, that's what I would expect to see in terms 13 of cost of the product.

14 So, the implicit assumption is, then, that 0 15 since there way for margin, that the margin would remain unchanged. Is that correct? 16

17 Whatever the margin is, the margin can come A down, but the cost is still going to go up whenever the cost 18 19 of crude oil is.

The only question is that because crude oil 20 0 goes up 10 cents, the margin comes down by 1 cent and the 21 theoretical example in that case is the end price of the 22 product goes up by 9 cents. Would that be right? 23

MR. KIRSTEN: I object to this. This 24 25 is argumentative. We have gone on with the

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same question for at least an hour. Mr. 1 Makul happens to be absolutely wrong. The 2 witness has said so and he is not satisfied 3 with that answer and he's continued to say, 4 but isn't it so, but isn't it so, but isn't 5 1t so. 6 The margins happen to go up as the 7 8 amount of units sold go down. 9 Now, Mr. Makul doesn't want to believe that fact as stated by this witness and if he 10 asks the question 20 times, he's going to get 11 the same answer, and I object to the repeti-12 tion. 13 14 JUDGE MARSHALL: An objection has been made on the outstanding question on the grounds 15 of it is unduly repetitious. 16 Mr. Makul? 17 MR. MARUL: I've asked the witness to 18 comment upon the effect of the fact that we 19 are in, as has been reported, an oil glut, and 20 to what extent that might have an effect on 21 margins as opposed to margins that may have 22 occurred in historical periods. 23 What Mr. Kirsten states is what the 24 witness stated which is based on data that 25

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occurred in the past years, in the past years that were cited, 1978, 1979, the early part of 1980.

If the witness can enlighten us about this, my memory was there was no oil glut and the essential question is that because of the market condition, the worldwide supply of oil, the fact that consumption is widely reported to be down, that is it not possible that since the price paid for oil represents a combination of the cost of the crude and the margins of the various people who handle and refine that crude, is it not possible that the non-crude oil components of the overall cost of oil are dropping.

MR. KIRSTEN: You want to testify to that? I'll cross examine you on it, Mr. Makul.

MR. MAKUL: I am asking --

MR. KIRSTEN: The witness has said you are wrong. You may not like that answer, but if you want to get on the stand and testify, I think I can prove that you're wrong.

JUDGE MARSHALL: Well, there was an outstanding question and then during the course of the response to Mr. Kirsten's objection you

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1	stated another question.
2	Was your earlier question withdrawn
3	and that put in its place or was that merely
4	a rhetorical question you made during your
5	response?
6	MR. MAKUL: I think this would probably
7	be best handled in a brief later. We'll move
8	on to another area.
9	JUDGE MARSHALL: Does that mean you're
10	withdrawing those two questions?
11	MR. MAKUL: Yes.
12	JUDGE MARSHALL: Okay.
13	Q Mr. Goldstein, with respect to the projections,
14	I see them escalating on a month by month basis to get to
15	your final figures. This is on JC-A.3, page 2 of 3.
16	Now, we have budget figures there start-
17	ing in September and going through next August. You were
18	asked to provide an exhibit during discovery and, unfortunately,
19	I don't think there's a number on it, but we asked you to
20	compare the actual cost of oil burned in July of 1980 to
21	the previous budget.
22	It's a handwritten copy, maybe if I show
23	it to you do you recognize that?
24	JUDGE MARSHALL: Off the record.
25	(A discussion was held off the record.)
1	

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1	JUDGE MARSHALL: Back on the record.
2	There's been an off the record discus-
3	sion. The parties have stated during the
4	course of the day that it looks like there
5	may be minimal cross examination on Tuesday.
6	In light of that, Mr. Sahradnik has
7	asked, and I feel it possibly would be for the
8	benefit of all parties concerned and for
9	competent treatment of his memorandum on the
0	question of a further hearing date in Monmouth,
1	for this memorandum to be submitted on Wednesday
2	rather than on Monday as originally requested.
13	Agreed?
4	MR. SAHRADNIK: Thank you, Judge. I
5	appreciate that.
6	JUDGE MARSHALL: Okay. Now locks like
7	a good time to break.
.8	Are there any further matters before
9	we break right now?
:0	(No response.)
21	JUDGE MARSHALL: We'll break now.
2	We'll resume Monday morning at 9:00 o'clock.
3	Thank you for attending.
4	(HEARING ADJOURNED TO MONDAY, AUGUST
:5	25, 1980, NEWARK, NEW JERSEY, 9:00 A.M.)

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