## 1 BEFORE THE ILLINOIS POLLUTION CONTROL BOARD 2 3 IN THE MATTER OF: ) 4 CENTRAL ILLINOIS LIGHT COMPANY, ) 5 Petitioner, 6 ) PCB 99-80 -vs-) (Variance - Air) 7 ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, 8 Respondent. 9 10 11 12 The following is the transcript of a 13 hearing held in the above-entitled matter, taken stenographically by Jennifer E. Johnson, CSR, a 14 notary public within and for the County of Tazewell and State of Illinois, before Amy L. Jackson, 15 Hearing Officer, at the Peoria County Courthouse, 324 Main Street, Room 4-A, on the 9th 16 day of March, 1999 A.D., commencing at the hour of approximately 10:11 a.m. 17 18 19 20 21 22 23 24

1	PRESENT:
2	HEARING TAKEN BEFORE:
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	LINOIS ENVIRONMENTAL PROTECTION AGENCY MEMBERS
14 P	RESENT:
15 M	fr. Robert J. Kaleel
	. Matthew L. Will
16 M	Ir. Wayne O. Kahila, P.E.
17 A	LSO PRESENT:
	Ir. Robert M. Bisha, Central Illinois Light Company : John M. Planck, Central Illinois Light Company
	Ir. John E. Shrock, QST Environmental
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- 1 HEARING OFFICER JACKSON: My name is Amy
- 2 Jackson, and I am the Hearing Officer for the
- 3 Illinois Pollution Control Board. It is Tuesday,
- 4 March 9th, 1999. This is PCB 99-80, Central
- 5 Illinois Light Company versus Illinois Environmental
- 6 Protection Agency.
- 7 In this case, CILCO is seeking a variance from
- 8 the sulfur dioxide emissions limits set forth in 35
- 9 Illinois Administrative Code 214.141. At this time,
- 10 it does not appear that there are any members of the
- 11 public present. However, I have left notice with
- 12 the clerk outside our conference room that if any
- 13 members of the public do show up, they are to be let
- 14 into this room.
- 15 All right. Before we begin, and for those
- 16 of you who may not be familiar with the Board's
- 17 procedures, I want to briefly explain how this
- 18 process works. First of all, I want you all to know
- 19 that it is the Board and not me that will make a
- 20 final decision in this case. My job as a Hearing
- 21 Officer requires that I conduct the hearings in an
- 22 orderly manner and to insure that we have a clear
- 23 record of the proceedings for the Board to review
- 24 and make a determination.

- 1 It is also my responsibility to assess the
- 2 credibility of any witnesses testifying today, and I
- 3 will do so at the conclusion of these proceedings on
- 4 the record.
- 5 At times, I may ask for clarification for the
- 6 record or ask questions of any witnesses when I
- 7 believe there's information that's necessary to the
- 8 Board's clear understanding of this matter. The
- 9 Board's procedural rules do allow for members of the
- 10 public to participate by making statements on the
- 11 record; and any member of the public that does make
- 12 a statement on the record is subject to
- 13 cross-examination by counsel.
- 14 Finally I want to caution everyone that a Board
- 15 hearing is very much like being in court, and I
- 16 expect everyone to act appropriately and with proper
- 17 decorum; and I don't expect that to be a problem
- 18 today.
- 19 At this time, I'll ask the parties to make
- 20 their appearances for the record beginning with the
- 21 Petitioner.
- 22 MR. FALETTO: Yes. My name is John Faletto.
- 23 I'm a lawyer with the law firm of Howard & Howard;
- 24 and we're here on behalf of Central Illinois Light

- 1 Company.
- 2 HEARING OFFICER JACKSON: Also with you,
- 3 Mr. Faletto, is?
- 4 MS. JAGIELLA: Diana Jagiella. I'm also with
- 5 Howard & Howard here on behalf of CILCO.
- 6 HEARING OFFICER JACKSON: Thank you. And for
- 7 the Agency?
- 8 MS. DOCTORS: My name is Rachel Doctors, and
- 9 I'm with the Illinois Environmental Protection
- 10 Agency.
- 11 HEARING OFFICER JACKSON: At this time, I'll
- 12 ask counsel if you have any preliminary matters that
- 13 we need to discuss on the record?
- 14 MR. FALETTO: I don't think we have any issues,
- 15 do we?
- 16 MS. DOCTORS: No.
- 17 HEARING OFFICER JACKSON: Okay. I do have one
- 18 thing that I want to remind the parties of. And
- 19 this may be brought out in testimony; and if it is,
- 20 just let me know. In some of our pre-hearing
- 21 conversations, we talked about the fact that the
- 22 petition contains the dates of a variance beginning
- 23 with January 1st of 1999. We were concerned that
- 24 CILCO was seeking a retroactive application of this

- 1 variance, and I want to make sure that that's either
- 2 brought out or just clarified at this time on the
- 3 record that that is not, in fact, what CILCO is
- 4 seeking.
- 5 MS. JAGIELLA: That's correct. CILCO is not
- 6 seeking retroactive relief.
- 7 HEARING OFFICER JACKSON: So the dates -- if a
- 8 variance is granted, what would the dates be that
- 9 CILCO is seeking?
- MS. JAGIELLA: The date the Board approves the
- 11 variance request.
- 12 HEARING OFFICER JACKSON: And then five years
- 13 from that date?
- 14 MS. JAGIELLA: No. I think in the testimony
- 15 that will be clarified, that --
- 16 MR. FALETTO: I'll clarify it in opening
- 17 statement, too.
- 18 MS. JAGIELLA: Right. That there are specific
- 19 deadlines; and it is no longer five years. So we
- 20 can explain it now on the record, or do you want to
- 21 wait until we actually get into the testimony?
- 22 HEARING OFFICER JACKSON: If you're going to
- 23 cover it in testimony, that will be fine.
- 24 MR. FALETTO: It's actually also in the Board's

- 1 -- or the Agency's recommendation.
- 2 MS. DOCTORS: Right. And in the letter that's
- 3 attached to my recommendation from the
- 4 Petitioner.
- 5 HEARING OFFICER JACKSON: Okay. Very good. I
- 6 just wanted to make sure we did that on the record.
- 7 All right. Does the Petitioner have any
- 8 opening statements?
- 9 MR. FALETTO: Yes, I have a brief opening
- 10 statement. Again, this is John Faletto on behalf of
- 11 CILCO. And I'm here with Diana Jagiella, my
- 12 co-counsel in this matter.
- 13 First of all, we have some photographs of the
- 14 power plant. Exhibit A is a close-up shot of the
- 15 E.D. Edwards generating station. And Exhibit B is a
- 16 shot taken from actually the Pekin bridge that I
- 17 took a couple years ago; and this is -- shows the
- 18 rural nature of the area where the E.D. Edwards
- 19 generating station is located. And you can see the
- 20 stacks -- it's not particularly clear -- and you can
- 21 see the Illinois River which runs along the power
- 22 plant. Those are marked Exhibits A and B
- 23 respectively, and copies have been provided to
- 24 counsel and a copy for the record as well.

- 1 You'll hear some references today which I want
- 2 to clarify. One is CILCO, which refers to Central
- 3 Illinois Light Company. Another is Edwards or
- 4 Edwards station which refers to the E.D. Edwards
- 5 generating station located in -- just south of
- 6 Peoria in Bartonville. Units -- you'll see
- 7 testimony of units, which refers to -- typically is
- 8 referring to the boilers. There's three coal-fired
- 9 boilers at the power plant. And SO2 which is, of
- 10 course, an abbreviation for sulfur dioxide. Those
- 11 are references that you'll hear through the course
- 12 of certainly CILCO's witnesses and probably the
- 13 Agency's witnesses as well that -- to clarify for
- 14 the record.
- We have three witnesses today. The first is
- 16 Robert M. Bisha, who is CILCO's Director of
- 17 Environmental Services and Compliance. Mr. Bisha's
- 18 testimony will include background information about
- 19 CILCO and Edwards station, the regulations
- 20 applicable to SO2 emissions from Edwards boilers, an
- 21 overview of the operational flexibility requested in
- 22 the variance and the associated benefits, if the
- 23 Board grants a variance.
- Our second witness is John Planck, seated next

- 1 to Diana. John is CILCO Supervisor of Fuel
- 2 Procurement. His testimony will cover the types of
- 3 coal, costs, and quantities used at Edwards station,
- 4 the future costs and availability of low sulfur
- 5 coals, the economic impact of limiting unit two to
- 6 only low sulfur coal.
- 7 And then our third and final witness will be
- 8 Mr. John M. Shrock. Mr. --
- 9 MR. SHROCK: John E.
- 10 MR. FALETTO: John E. Did I say M.?
- 11 MR. SHROCK: Yes.
- 12 MR. FALETTO: I'm sorry. Picked that up from
- 13 him. John E. Shrock, who is QST Environmental,
- 14 Manager of Air Resources division in the
- 15 Gainesville, Florida, office. And Mr. Shrock's
- 16 testimony will cover the results of a study which
- 17 was commissioned by CILCO demonstrating there would
- 18 be minimal to no adverse impact on air quality if
- 19 unit two were allowed the operational flexibility
- 20 requested in the variance petition as well as the
- 21 current attainment status of the Peoria metropolitan
- 22 area with the sulfur dioxide National Ambient Air
- 23 Quality Standards, or N.A.A.Q.S.
- 24 The regulatory requirements applicable to SO2

- 1 emissions from Edwards station are summarized here
- 2 in Exhibit C. This is a chart that was also
- 3 included in CILCO's petition for variance. As you
- 4 can see, boiler one is subject to a sulfur dioxide,
- 5 SO2, emission limit of -- I'll try not to block that
- 6 -- 6.6 lb/MM Btu of heat input capacity. This is a
- 7 production-based limit which limits SO2 emissions
- 8 based on the amount of coal utilized in the boiler.
- 9 These emission limits have also been
- 10 incorporated into the March 20th of 1995 operating
- 11 permit which has since been superseded by the Clean
- 12 Air Act Permanent Program, or CAAPP, application
- 13 filed by CILCO with the Agency. This emission limit
- 14 comes from a regulation, 35 Illinois Administrative
- 15 Code, Section 214.561; and the reference, the
- 16 abbreviation, is 35 IAC, Section 214.561. That's
- 17 boiler number one.
- 18 Boiler number two at Edwards has a much more
- 19 stringent emission limit on SO2 at 1.8 lb/MM Btu,
- 20 and that emission limit is -- comes from the
- 21 regulation at 35 Illinois Administrative Code,
- 22 Section 214.141.
- 23 Unit three or boiler number three is subject to
- 24 the same emission limits as boiler number one, the

- 1 6.6 lb/MM Btu; and, again, that is also derived from
- 2 35 Illinois Administrative Code, Section 214.561.
- 3 More important is a plant-wide emission limit
- 4 on SO2 emissions that establishes a pounds per hour
- 5 or short-term limit on SO2 emissions of 34,613
- 6 pounds per hour on a 24-hour average basis. This is
- 7 applicable to all three boilers, so you can almost
- 8 think of it as a cap on the power plant.
- 9 The variance relief being requested is
- 10 operational flexibility for boiler number two; and
- 11 basically the concept would be an increase in the
- 12 allowable SO2 emissions from boiler number two
- 13 offset by concurrent decreases in emissions from
- 14 boiler number one and boiler number three. No
- 15 single unit would emit higher than 6.6 lb/MM Btu,
- 16 and the facility would maintain compliance with the
- 17 plant-wide emission limit. Basically we're only
- 18 talking about boiler number two and the 1.8 lb/MM
- 19 Btu in terms of actual relief from a regulatory
- 20 limit. SO2 controls on all three boilers are by
- 21 fuel; in other words, the sulfur content of the fuel
- 22 is how SO2 emissions are controlled.
- In order to maintain compliance with the 1.8
- 24 lb/MM Btu, CILCO is required to burn a low sulfur

- 1 coal in unit number two. Factors supporting or what
- 2 we hope will be demonstrated -- okay. Yes,
- 3 basically the emission limit being requested in the
- 4 variance would be a 4.71 lb/MM Btu averaged over all
- 5 three units with no unit emitting higher than 6.6.
- 6 I -- thanks, Diana. I went over that, glossed over
- 7 that one.
- 8 What we hope to show today and through other
- 9 submittals in the record and all the evidence
- 10 admitted in this proceeding is the factors
- 11 supporting the need for variance relief. And I have
- 12 listed them here in the Exhibit D. The first is the
- 13 excess fuel cost for utilizing low sulfur coal in
- 14 unit two. That's primarily because low sulfur coal
- 15 is much more expensive -- and you'll hear testimony
- 16 on that -- than a mid to high sulfur coal. Second,
- 17 the increased cost for managing a separate coal type
- 18 exclusively for unit two. The unit two can only
- 19 burn the low sulfur coal, while the other two
- 20 boilers can burn a mid to high sulfur coal.
- 21 The economic disincentive to utilize the most
- 22 efficient boiler: What that factor is, boiler
- 23 number two is the most efficient boiler at Edwards
- 24 station; in other words, it can extract more energy

- 1 from the same amount of coal or fuel that's burned.
- 2 It's not -- and you would expect that boiler to be
- 3 utilized more than the others because it produces
- 4 energy and, consequently, electric power more
- 5 efficiently. But it's not because unit two is more
- 6 expensive to run because the low sulfur coal is more
- 7 expensive coal.
- 8 The next factor would be the unavailability in
- 9 the future of low sulfur Illinois coal as well as
- 10 the increased cost -- in addition to the costs, the
- 11 extra costs already incurred by CILCO for low sulfur
- 12 coal exclusively for unit two, the increased costs
- 13 expected for having to go to out-of-state low sulfur
- 14 coal suppliers.
- 15 Then we have Phase Two of the Clean Air Act
- 16 Acid Rain Program applicable to Edwards station on
- 17 January 1st of the year 2000. This is a program
- 18 where a number of utilities are required to reduce
- 19 their SO2 emissions nationwide. CILCO's Phase Two
- 20 compliance strategy is not finalized at this time
- 21 because of some uncertainty. Number one is
- 22 uncertain availability, as well as cost, of low
- 23 sulfur coal as demand for that fuel increases. Over
- 24 2,000 new units will be required to reduce emissions

- 1 under this Phase Two program of the Acid Rain
- 2 Program. It's expected -- and you'll hear testimony
- 3 on this -- that that demand or -- in order to
- 4 comply, it will create a demand for low sulfur coal,
- 5 which is a very common way for utilities to reduce
- 6 the SO2 emissions off the stack. So that's as
- 7 demand increases under Phase Two.
- 8 In addition, there's uncertainty at the present
- 9 time about the availability and cost of SO2
- 10 allowances. An allowance is authorization to emit
- 11 one ton of sulfur dioxide; and that's through the
- 12 federal U.S. E.P.A. Acid Rain Program, which is
- 13 fleshed out in the implementing federal
- 14 regulations. So the cost of those, when these
- 15 additional units come in in Phase Two, is a
- 16 tremendous uncertainty.
- 17 The additional factors are electric utility
- 18 deregulations in Illinois which is -- which is
- 19 coming and will be implemented in the coming years,
- 20 which does affect CILCO, which requires basically
- 21 the utility to control its costs and to reduce
- 22 costs. So at the same time that we have the acid
- 23 rain compliance requirements forcing increased costs
- 24 -- or probably forcing increased costs, we have, at

- 1 the same time, electric utility deregulation which
- 2 forces cost control to maintain cost competitiveness
- 3 with the other utilities.
- 4 Unit two operational: This is probably the
- 5 most important factor, is that the unit two
- 6 operational flexibility can be achieved with no
- 7 adverse air quality impact. You will hear testimony
- 8 on this as well. The current status of the Peoria
- 9 metropolitan area is an attainment status with the
- 10 National Ambient Air Quality Standard for sulfur
- 11 dioxide, which means that the air quality that is in
- 12 this area has a lower concentration than the
- 13 standard which was set to protect human health and
- 14 the environment.
- 15 Secondly, QST's ambient air quality impact
- 16 analysis demonstrates protection of the SO2 National
- 17 Ambient Air Quality Standard even with the
- 18 operational flexibility being requested in this
- 19 variance proceeding.
- 20 The scope of the relief requested -- and we've
- 21 touched on this a little bit so I won't belabor it.
- 22 Unit -- first of all, there would be unit-based SO2
- 23 emission limits. There would be -- of 4.71 lb/MM
- 24 Btu of heat input averaged over all three boilers;

- 1 second, there would be a maximum limit of 6.6 lb/MM
- 2 Btu for each boiler which is essentially the same as
- 3 what unit one and unit three are subject to at the
- 4 present time; and the plant-wide SO2 emission limit
- 5 remains in place. No change in the short-term pound
- 6 per hour limit, the 34,613 pounds per hour limit on
- 7 all three boilers.
- 8 Compliance with the conditions of the variance
- 9 or these emission limits which would be -- which
- 10 would result in granting of the variance would be
- 11 monitored through the existing continuous emission
- 12 monitoring system in place at Edwards station; and
- 13 reporting would also be done through that system and
- 14 that would be used to demonstrate compliance.
- 15 Through the -- through consultation with
- 16 Illinois Environmental Protection Agency,
- 17 specifically their counsel, Rachel Doctors, we've
- 18 also discussed some conditions that were recommended
- 19 by the Agency and which CILCO has agreed to abide
- 20 by. First is the variance relief, if granted, would
- 21 last until January 31st of the year 2002 unless
- 22 CILCO elects to pursue site-specific permanent
- 23 relief, and then until July 31st of the year 2003.
- 24 Semiannual reporting to the Agency on the cost

- 1 and availability of SO2 allowances and the cost and
- 2 availability of low sulfur coal: These are the --
- 3 these are the areas of uncertainty regarding CILCO's
- 4 Phase Two compliance under the Phase Two Acid Rain
- 5 Program which affects whether really site-specific
- 6 permanent relief would be the more appropriate
- 7 relief being requested from the Board of whether it
- 8 should proceed as a variance.
- 9 Also, an interim report would be made on Phase
- 10 Two compliance strategy and notification to the
- 11 Agency by January 31st of the year 2002 of an intent
- 12 to seek permanent relief.
- 13 The conclusion: What are the consequences of
- 14 the Board's decision to grant this variance? I
- 15 think it's important to remember that the same
- 16 aggregate SO2 emission would be coming from Edwards
- 17 station; the same pounds per hour limit would remain
- 18 in place. But grant of the variance relief would
- 19 eliminate millions of dollars of economic hardship
- 20 and a future increase in that economic hardship when
- 21 low sulfur Illinois coals are no longer available;
- 22 would allow increased use of CILCO's most efficient
- 23 boiler at the Edwards station, and would allow
- 24 continued use of Illinois coals; would also allow

- 1 CILCO to develop its Phase Two acid rain strategy to
- 2 both achieve compliance as well as remain cost
- 3 competitive under utility deregulation with minimal
- 4 effect on air quality and no adverse impact on the
- 5 National Ambient Air Quality Standard for SO2.
- 6 Thank you very much. Yes, that's a good
- 7 point. Diana has mentioned, when we mention low
- 8 sulfur coal, that refers to a concentration of
- 9 sulfur in the coal sufficient to maintain the 1.8
- 10 lb/MM Btu emission limit currently imposed on unit
- 11 two. And typically that's somewhere around a one
- 12 percent sulfur content; maybe a couple tenths
- 13 higher, but not much higher. So right around a one
- 14 percent sulfur content.
- 15 Thank you, Diana.
- 16 HEARING OFFICER JACKSON: Thank you,
- 17 Mr. Faletto.
- 18 Ms. Doctors, does the Agency have an opening
- 19 statement?
- 20 MS. DOCTORS: I would like to hold my opening
- 21 statement until after the witnesses -- his witnesses
- 22 have testified.
- 23 HEARING OFFICER JACKSON: Very good.
- 24 Mr. Faletto, you may call your first witness.

- 1 MR. FALETTO: Yes. Our first witness will be
- 2 Mr. Robert M. Bisha. And as mentioned, we --
- 3 Mr. Bisha is the -- is CILCO's Director of
- 4 Environmental Services and Compliance. We have
- 5 prepared written testimony for Mr. Bisha; and at
- 6 this time, I think the parties have agreed that we
- 7 would read the testimony into the record.
- 8 Rachel, that's appropriate?
- 9 MS. DOCTORS: Correct.
- MR. FALETTO: Good. We'll go ahead and do that
- 11 and then allow for any questions after he's
- 12 completed reviewing -- or reading his testimony into
- 13 the record.
- 14 HEARING OFFICER JACKSON: Okay. Very good. I
- 15 do want to mark his written testimony as an exhibit.
- 16 MR. FALETTO: Okay. We can do that then. I
- 17 think we're up to --
- 18 MS. JAGIELLA: "G".
- 19 HEARING OFFICER JACKSON: "H".
- 20 MR. FALETTO: No. We're up to "H". That one
- 21 has to be changed.
- MS. JAGIELLA: So this will be "H".
- 23 MR. FALETTO: Bob, you have a copy -- a true
- 24 and correct copy of that? We'll go ahead, and if we

- 1 have no objection from the Agency, we will submit
- 2 that for admission into the record.
- 3 MS. DOCTORS: There's no objection.
- 4 HEARING OFFICER JACKSON: Do you want to move
- 5 that your other exhibits be admitted at this time as
- 6 well?
- 7 MR. FALETTO: Yes, I would like to move that
- 8 they be admitted as well.
- 9 HEARING OFFICER JACKSON: Any objection?
- 10 MS. DOCTORS: No.
- 11 HEARING OFFICER JACKSON: Okay. Petitioner's
- 12 Exhibits A, B, C, D, E, F, G, and H are so admitted
- 13 into the record.
- MS. DOCTORS: This is part of it, too?
- 15 MR. FALETTO: Right, that's part of it as
- 16 well.
- 17 HEARING OFFICER JACKSON: Thank you.
- 18 MR. BISHA: All set?
- 19 HEARING OFFICER JACKSON: Yes. You may
- 20 proceed.
- 21 MR. ROBERT M. BISHA: My name is Robert M.
- 22 Bisha. I've been employed by Central Illinois Light
- 23 Company, CILCO, in the Environmental Affairs
- 24 department since 1980. I'm currently the Director

- 1 of Environmental Services and Compliance for CILCO.
- 2 I've held this position since 1996.
- 3 My responsibilities include development and
- 4 implementation of the environmental-related
- 5 programs, insuring compliance with environmental
- 6 laws and regulations, and supervising six members of
- 7 the environmental services and compliance
- 8 department.
- 9 I have a Bachelor of Science degree in
- 10 meteorology from the State University of New York at
- 11 Oswego. I've worked in the field of meteorology as
- 12 an air pollution engineer prior to joining CILCO.
- 13 CILCO is an electric and natural gas utility
- 14 located in Central Illinois. CILCO's electric
- 15 production facilities consist of two generating
- 16 stations, the Duck Creek generating station near
- 17 Canton, Illinois, and the Edwards station in
- 18 Bartonville, Illinois. CILCO provides electric and
- 19 gas service to approximately 172,890 residential
- 20 customers and to 170 industrial customers. CILCO's
- 21 electric and gas service territory includes multiple
- 22 counties in Central Illinois.
- 23 Edwards station is located on the Illinois
- 24 River in the Peoria major metropolitan area. 142

- 1 people are employed at Edwards station, which is
- 2 staffed 24 hours per day, seven days per week. The
- 3 Edwards station consists of three boilers and
- 4 attendant-generating units referred to as boilers or
- 5 units. All three units are coal fired. Units one
- 6 and two discharge through a common stack 503 feet in
- 7 height. Unit three discharges through a separate
- 8 stack also 503 feet in height. The combustion
- 9 exhaust gasses from all three boilers are ducted
- 10 through electrostatic precipitators which are
- 11 designed to remove particulate matter prior to
- 12 releasing the exhaust gasses through the stacks.
- 13 In recent years, CILCO has installed
- 14 state-of-the-art equipment on all three boilers to
- 15 reduce the emissions of nitrogen oxides, or NOx,
- 16 equipment commonly referred to as low NOx burners.
- 17 In addition, CILCO has installed and is operating
- 18 continuous emission monitoring systems, C.E.M.S., or
- 19 CEMS, on all three units which directly measure
- 20 sulfur dioxide -- SO2 -- NOx, and opacity contained
- 21 in the exhaust gasses.
- Boilers number one and three are subject to a
- 23 sulfur dioxide emission limit of 6.6 lb/MM Btu
- 24 pursuant to 35 Illinois Administrative Code, Section

- 1 214.561. Boiler number two is subject to a sulfur
- 2 dioxide emission limit of 1.8 lb/MM Btu pursuant to
- 3 Illinois -- 35 Illinois Administrative Code, Section
- 4 214.141. Emissions from all three boilers
- 5 collectively are subject to an overall plant-wide
- 6 SO2 emission limit of 34,613 pounds per hour
- 7 established to insure protection of the National
- 8 Ambient Air Quality Standards for SO2 under 35
- 9 Illinois Administrative Code 214.561. These
- 10 standards are summarized in the chart in my written
- 11 testimony and were also included as Exhibit A
- 12 earlier.
- 13 MR. FALETTO: Actually, I think that was
- 14 Exhibit C, but that's fine.
- 15 MR. ROBERT BISHA: C?
- 16 MR. FALETTO: Yes.
- 17 HEARING OFFICER JACKSON: That's correct.
- 18 MR. ROBERT BISHA: Okay. CILCO elected to
- 19 request relief from the 1.8 lb/MM Btu limit
- 20 applicable to Unit 2 after recognizing that relief
- 21 from the unit would reduce the economic hardship
- 22 caused by purchasing more expensive low sulfur coal
- 23 and allow increased purchases of Illinois coal with
- 24 no adverse impact to the environment. Through its

- 1 variance petition, CILCO is requesting an average
- 2 station-wide emission limit of 4.71 lb/MM Btu over
- 3 all three boilers, not to exceed 6.6 lb/MM Btu in
- 4 any one boiler. CILCO seeks to increase the SO2
- 5 emission limit applicable to boiler number two by
- 6 reducing the SO2 emission limit applicable to
- 7 boilers number one and three. CILCO's obligation to
- 8 comply with all other SO2 emission limitations would
- 9 remain unchanged. CILCO would still be subject to
- 10 and maintain compliance with the 34,613 pounds per
- 11 hour SO2 emission limit imposed on all three units
- 12 under 35 Illinois Administrative Code, 214.561.
- 13 To maintain compliance with the 1.8 lb/MM Btu
- 14 limit applicable to boiler number two, CILCO must
- 15 purchase expensive low sulfur coal. The variance
- 16 relief will provide CILCO the flexibility to utilize
- 17 blended coal and/or mid range sulfur coals in boiler
- 18 number two. This flexibility will result in fuel
- 19 cost savings and promote future purchases and use of
- 20 the Illinois coal. CILCO anticipates it would save
- 21 up to 4 million dollars annually through lower fuel
- 22 costs. CILCO would also save administrative costs
- 23 as a result of the variance relief.
- 24 There are increased ancillary costs associated

- 1 with the exclusive use of low sulfur coal in boiler
- 2 two. CILCO's operating costs are higher due to the
- 3 need to maintain separate coal stockpiles and coal-
- 4 handling equipment for this separate pile. In
- 5 addition, there are increased costs associated with
- 6 negotiating and monitoring coal supply and
- 7 transportation contracts for the low sulfur coal.
- 8 CILCO would also save money through greater use
- 9 of boiler number two, which is a more efficient
- 10 boiler. The unit two boiler has the highest
- 11 generating cost because of the higher cost of low
- 12 sulfur coal needed to meet the 1.8 lb/MM Btu SO2
- 13 emission limit. Unfortunately, as explained below,
- 14 unit two is the most efficient boiler at Edwards and
- 15 would be operated at a greater capacity but for the
- 16 excessive fuel cost.
- 17 The 1998 heat rates for the three units are:
- 18 For unit one, 10,643 Btu's per kilowatt hour; for
- 19 unit two, 9,806 Btu's per kilowatt hour; and for
- 20 unit three, 9,862 Btu's per kilowatt hour.
- 21 Heat rate is our measure of fuel efficiency or
- 22 fuel economy, much like miles per gallon measures
- 23 fuel economy in an automobile. The lower the heat
- 24 rate, the more efficient the boiler. This means it

- 1 takes less coal in a more efficient boiler to
- 2 produce the same kilowatt hours of electricity.
- 3 While the differences in heat rate between the three
- 4 units may seem small, on an annualized basis, unit
- 5 number two's lower heat rate translates into
- 6 significant savings. For example, producing 1.25
- 7 billion kilowatt hours in each boiler would require
- 8 608,421 tons of coal in boiler one; similarly, it
- 9 would require 560,573 tons of coal in boiler two;
- 10 and it would require 563,725 tons of coal in boiler
- 11 three. Thus, producing the same amount of energy
- 12 requires 47,848 more tons of coal in boiler one than
- 13 in boiler two, and 3,202 more tons of coal in boiler
- 14 number three than in boiler number two.
- 15 Assuming the same type of coal was burned in
- 16 each boiler, at \$28 per ton, the savings from using
- 17 boiler two over boiler three would be \$89,000 --
- 18 \$89,656. The savings from using boiler two over
- 19 boiler one would be \$1,339,742. The benefits of
- 20 using a more efficient boiler can also be
- 21 illustrated by looking at the kilowatt hours
- 22 produced in each boiler from the same amount of
- 23 coal. Unit two will produce more kilowatt hours
- 24 than unit one or three from the same amount of

- 1 heating value of coal. On an annual basis, unit two
- 2 can produce significantly more kilowatt hours from
- 3 the same amount of coal. For example, combusting
- 4 one million tons of the same coal in each boiler
- 5 would produce the following kilowatt hours: In unit
- 6 one, 2.05 billion kilowatt hours; in unit two, 2.23
- 7 billion kilowatt hours; and in unit three, 2.21
- 8 billion kilowatt hours. Thus, the use of the more
- 9 efficient boiler number two would produce
- 10 approximately 20 million more kilowatt hours from
- 11 the same amount of coal than boiler three.
- 12 The excess costs incurred by CILCO to fuel
- 13 boiler two with low sulfur coal presents an
- 14 unreasonable hardship, given that the operational
- 15 flexibility requested in the variance will not
- 16 result in an adverse environmental impact. CILCO --
- 17 CILCO also anticipates the operational flexibility
- 18 created by the variance would result in future
- 19 purchases of an additional 500,000 tons of Illinois
- 20 coal per year. CILCO elected to pursue this
- 21 operational flexibility through a variance under
- 22 Section 35 to 38 of the Illinois Environmental
- 23 Protection Act, rather than seek permanent site-
- 24 specific relief because the variables affecting

- 1 CILCO's fuel strategy in the year 2000 and beyond --
- 2 in other words, after the Acid Rain Program --
- 3 cannot be determined with certainty at this point.
- 4 Edwards station is subject to the Acid Rain Program,
- 5 Phase Two, beginning January 1st, 2,000. CILCO was
- 6 required to obtain an Acid Rain Program, Phase Two
- 7 permit for Edwards pursuant to Section 39.5 of the
- 8 act. Permit was issued on September 23rd, 1997, and
- 9 is effective on January 1st, year 2000. Under Phase
- 10 Two of the Acid Rain Program, CILCO will either have
- 11 to limit its SO2 emissions to 18,792 tons per year
- 12 by purchasing low sulfur coal or purchasing
- 13 additional SO2 allowances necessary to meet
- 14 production demands pursuant to 40 CFR, Part 73.10.
- 15 In the alternative, or as a compliance
- 16 alternative, it could also install a scrubber system
- 17 to control SO2 emissions, but such a system could
- 18 not be operational by January 1st, year 2000. The
- 19 strategy selected by CILCO will be largely dependent
- 20 on the cost and availability of low sulfur coal
- 21 versus the cost and availability of allowances
- 22 versus the cost and cost effectiveness of control
- 23 technology.
- 24 In general, demand for Acid Rain Program SO2

- 1 allowances and low sulfur coal is likely to increase
- 2 significantly with the entry of approximately 2200
- 3 affected units into the Phase Two, the Acid Rain
- 4 Program, beginning January 1st, 2,000. The markets
- 5 are expected to be initially volatile.
- 6 Moreover, there is limited historical
- 7 experience in these markets to predict the impact of
- 8 such demand on price or availability of SO2
- 9 allowances and low sulfur coal. This lack of market
- 10 uncertainty weighs -- of market certainty weighs in
- 11 favor of a variance requested this time. To do
- 12 otherwise could unnecessarily waste forward
- 13 resources establishing a permanent site-specific SO2
- 14 limit, only to have the limit become unattainable,
- 15 as a practical matter, over the initial period of
- 16 time.
- 17 Compliance with the applicable 34,613 pound per
- 18 hour limit will be computed on a daily basis from
- 19 the average emission rate on that date. The
- 20 following calculation will be used to verify
- 21 compliance with the three-unit average limit of 4.71
- 22 lb/MM Btu. And essentially the calculation is
- 23 included in the testimony; that's a weight average
- 24 calculation.

- 1 CILCO has installed and is operating SO2
- 2 C.E.M.s on all three units pursuant to the Acid Rain
- 3 Program. CILCO will also monitor SO2 emissions to
- 4 insure compliance with all applicable limits.
- 5 C.E.M.s data will verify compliance with the
- 6 station-wide average limit as well as all other
- 7 applicable SO2 emission limitations.
- 8 As a condition of approving the requested
- 9 variance relief, CILCO has agreed to provide
- 10 periodic updates on the key variables that affect
- 11 the variance relief. CILCO will provide periodic
- 12 reports to I.E.P.A. semiannually for two years
- 13 beginning December 2000. The reports will discuss
- 14 the current cost of Acid Rain Program SO2
- 15 allowances, the current cost of low sulfur coal, and
- 16 a discussion of limited availability of SO2
- 17 allowances or low sulfur coal, if there is any. If
- 18 approved by the Illinois Pollution Control Board,
- 19 the variance would be effective until February 28th,
- 20 year 2002, unless CILCO files a petition for site-
- 21 specific relief by this date. The variance would
- 22 remain in effect for another eighteen months until
- 23 July 31st, 2003, if CILCO files a site-specific
- 24 petition for relief by the February 28th, 2002,

1 date.

- 2 As an additional condition, on approval of the
- 3 requested variance relief by January 31st, 2001,
- 4 CILCO will provide an interim report evaluating the
- 5 feasibility of various strategies for complying with
- 6 the Phase Two of the Acid Rain Program, including
- 7 use of various types of coal with purchases of SO2
- 8 allowances or with installation of a scrubber or
- 9 other desulfurization technology. CILCO will notify
- 10 I.E.P.A. by January 31st, 2002, whether it will
- 11 request permanent site-specific SO2 emission
- 12 relief. If, on January 31st, year 2002, CILCO
- 13 determines there is no basis to pursue site-specific
- 14 relief, the variance will terminate.
- 15 I have reviewed the potentially applicable
- 16 federal regulations and provisions of the Clean Air
- 17 Act and have determined that the requested relief,
- 18 use of high sulfur coal in Edwards unit number two,
- 19 would not be -- would not be inconsistent with any
- 20 federal law or regulations. The operational change
- 21 in utilizing a different quality of coal in Edwards
- 22 unit two is expressly exempt from applicability of
- 23 the new source performance standards, 40 CFR, Part
- 24 60, even though there could be an increase in the

- 1 hourly SO2 emission rate.
- 2 The federal regulations at 40 CFR, 60.14
- 3 specifically exclude from the scope of a regulated
- 4 modification uses of an alternative fuel or raw
- 5 material if the facility was designed to accommodate
- 6 that alternative fuel or raw material. Edwards unit
- 7 two was designed to combust higher sulfur coal, and
- 8 no physical changes will be required to do so upon
- 9 the Board's grant of the requested relief.
- 10 The operational change in utilizing a different
- 11 quality coal in Edwards unit two is similarly exempt
- 12 from the applicability of the federal Prevention of
- 13 Significant Deterioration, P.S.D., requirements set
- 14 forth in 40 CFR, Section 52.21, and ad-- and
- 15 administered by the Illinois E.P.A. pursuant to
- 16 40 CFR, 52.738.
- 17 The federal regulations specifically exclude
- 18 from the scope of a regulated modification uses of
- 19 an alternative fuel that the facility was designed
- 20 to accommodate and which was not prohibited under
- 21 any P.S.D. permit. Edwards unit two was designed to
- 22 utilize a higher sulfur coal, was constructed prior
- 23 to the P.S.D. permitting program, and has not
- 24 otherwise become subject to the P.S.D. regulations.

- 1 Furthermore, there will not be a modification
- 2 because the operational change will not cause a
- 3 significant net increase in any regulated
- 4 pollutant. The operational change in utilizing a
- 5 different quality coal in Edwards unit two would not
- 6 be subject to the National Emission Standards for
- 7 Hazardous Air Pollutants, 40 CFR, Part 61, or the
- 8 National Emissions Standards for Hazardous Air
- 9 Pollutants for Source Categories, 40 CFR, Part 63.
- 10 The operational change in utilizing a different
- 11 quality of coal in Edwards unit two will not be
- 12 inconsistent with CILCO's obligations under the Acid
- 13 Rain Program implemented through 40 CFR, Part 72
- 14 through 78. Granting the requested relief will not
- 15 conflict with CILCO's obligation to obtain an
- 16 operating permit, which includes the acid rain
- 17 requirements, to hold sufficient SO2 allowances for
- 18 actual SO2 emissions, to operate C.E.M.s, to
- 19 accurately monitor and report actual SO2 emissions,
- 20 and prepare and submit all required data and
- 21 reports.
- 22 Granting the variance relief requested would
- 23 not constitute a delay in compliance order as that
- 24 term is defined in 40 CFR, 65.01, and ambient air

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- 1 quality impact analysis of the proposed increase in
- 2 unit number two flexibility demonstrates full
- 3 protection of the primary and secondary National
- 4 Ambient Air Quality Standards for SO2.
- 5 And that concludes my testimony.
- 6 HEARING OFFICER JACKSON: Thank you very much.
- 7 Is there any cross-examination for this witness?
- 8 MS. DOCTORS: I have a couple of clarifying
- 9 questions, Mr. Bisha.
- 10 CROSS-EXAMINATION
- 11 BY MS. DOCTORS:
- 12 Q. On page four of your testimony, you're
- 13 talking about 1.25 billion kilowatt hours. Is that
- 14 a typical annual production rate?
- 15 A. That was used as an example for all three
- 16 boilers. That might be typical for unit two.
- 17 Q. Okay. How does that compare when you --
- 18 on the next page you talk about 2.05 billion
- 19 kilowatt hours?
- A. That is based on burning one million tons
- 21 in any given boiler; and these three boilers are all
- 22 of a different size --
- 23 Q. Okay.
- 24 A. -- so it's probably not realistic. You

- 1 could burn a million tons in all of these boilers.
- 2 But for illustration purposes we wanted to show
- 3 that. Typically, CILCO will generate in the
- 4 neighborhood of 5 to 6 billion kilowatt hours in a
- 5 year.
- 6 Q. Okay. I wanted to -- I asked the question
- 7 to get an idea of what the scope of the savings was
- 8 at the bottom of page four.
- 9 On page five, you indicate that you will be
- 10 purchasing an additional 500,000 tons of Illinois
- 11 coal. Is that in addition to what you're currently
- 12 purchasing, or is that in lieu of having to go out
- 13 of state to purchase low sulfur coal if the variance
- 14 was not granted?
- 15 A. I believe that would be replacement coal
- 16 after the low sulfur coal would be depleted. And I
- 17 think that will probably be addressed in
- 18 Mr. Planck's testimony.
- 19 Q. Okay. On page six, you indicate there's
- 20 2200 effected units going to Phase Two. How many
- 21 companies -- how many companies, approximately; do
- 22 you know?
- A. I think it's in the neighborhood of 100,
- 24 maybe 120.

- 1 Q. And then I have one last -- just a
- 2 clarifying question. On page eight, you indicate
- 3 that the variance will be effective until February
- 4 28th, 2002; and I believe under Mr. Faletto's
- 5 opening and our agreement per letter that the
- 6 variance is effective through January 31st of 2002,
- 7 at which time you give notice; and then it would be
- 8 extended, and you have till February 28th to file.
- 9 A. I'm not sure why the difference of
- 10 apparently one month. Is that what we're talking
- 11 about?
- 12 Q. Yeah.
- 13 A. I'm not sure why there's a difference in
- 14 one month, if it makes a difference. Maybe we can
- 15 change that.
- 16 MS. JAGIELLA: I think the testimony is just a
- 17 little -- is slightly ambiguous in one sentence.
- 18 There's no dispute that if CILCO elects not to
- 19 pursue site-specific relief, the variance terminates
- 20 January 31st. If it elects to pursue permanent
- 21 site-specific relief, the variance -- they will have
- 22 until February 28th to file that petition, and then
- 23 the variance relief would continue for eighteen
- 24 months until July 31st, 2003, to allow that

- 1 proceeding to resolve itself through. So I think
- 2 it's just -- I think the testimony doesn't say that
- 3 it continues to February 28th even if they decide
- 4 not to pursue site-specific relief. But it's
- 5 ambiguous enough in one sentence that it could be
- 6 interpreted that way.
- 7 So just for the record, there's no dispute on
- 8 that.
- 9 HEARING OFFICER JACKSON: So notice would have
- 10 to be given to the Agency, though, by January 31st,
- 11 2002, if you do intend to seek site-specific
- 12 rulemaking?
- 13 MS. JAGIELLA: That's correct.
- 14 MR. FALETTO: Right.
- 15 HEARING OFFICER JACKSON: But then the petition
- 16 would not actually have to be filed until the
- 17 February 28, 2002, date?
- 18 MR. FALETTO: Correct.
- 19 MS. JAGIELLA: Right.
- 20 MR. BISHA: That is -- yes.
- 21 HEARING OFFICER JACKSON: Okay. Thank you.
- MS. DOCTORS: That's all the questions I have.
- 23 HEARING OFFICER JACKSON: Does that conclude
- 24 the testimony of this witness?

- 1 MR. FALETTO: That concludes the testimony for
- 2 Mr. Bisha. And I would move for admission of his --
- 3 of the written testimony into the record.
- 4 HEARING OFFICER JACKSON: It's already
- 5 admitted.
- 6 MR. FALETTO: We did that already. Just wanted
- 7 to make sure.
- 8 HEARING OFFICER JACKSON: Thank you.
- 9 MR. FALETTO: Great. Thanks, Bob.
- 10 Our next witness will be Mr. John M. Planck,
- 11 who is CILCO's Supervisor of Fuel Procurement. We
- 12 have marked his written testimony as Exhibit I.
- 13 John, you have a correct copy of that?
- 14 MR. PLANCK: I do.
- 15 MR. FALETTO: We would like to have him read
- 16 his written testimony into the record as well.
- 17 MS. JAGIELLA: Do you have an "I"?
- 18 HEARING OFFICER JACKSON: I don't have
- 19 "I".
- 20 MR. FALETTO: I have right it right here. Do
- 21 you have a copy of his testimony?
- 22 MS. DOCTORS: Yes.
- 23 MR. FALETTO: Okay. Great. I would move for
- 24 admission of that testimony into the record at this

- 1 time.
- 2 HEARING OFFICER JACKSON: Any objection?
- 3 MS. DOCTORS: No objection.
- 4 HEARING OFFICER JACKSON: Thank you. Exhibit I
- 5 is so admitted.
- 6 Mr. Planck, you may proceed.
- 7 MR. JOHN M. PLANCK: My name is John M. Planck,
- 8 and my business address is 300 Liberty Street,
- 9 Peoria, Illinois, 61602. I am a graduate of Bradley
- 10 University with a Bachelor of Science degree in
- 11 electrical engineering.
- 12 I have been employed by Central Illinois Light
- 13 Company for over thirty years. I began my
- 14 employment with CILCO in the Electric Engineering
- 15 department, holding several positions within that
- 16 area. I subsequently held positions of Staff
- 17 Engineer in Energy Supply, Supervisor of Maintenance
- 18 at Duck Creek and E.D. Edwards station, Supervisor
- 19 of Special Projects, and Manager of Plant
- 20 Engineering. I am currently the Supervisor of Fuel
- 21 Procurement for the company. I report to the
- 22 Director of Fuel, Ash, and Material Handling.
- 23 My primary responsibilities are to procure all
- 24 energy-producing fuels, excluding natural gas, and

- 1 the transportation of these fuels for CILCO's Duck
- 2 Creek and E.D. Edwards stations. I have worked in
- 3 the fuels area for over ten years.
- 4 CILCO's fuels cost will be significantly lower
- 5 if the relief requested in the variance petition is
- 6 granted. The estimated fuel cost savings set forth
- 7 in the petition were prepared under my supervision
- 8 and direction. Annual coal usage for Edwards
- 9 station unit one and three typically averages 1.2
- 10 million tons. CILCO currently utilizes a blend of
- 11 primarily Illinois mid to high sulfur coals in unit
- 12 one and three. These coals typically have an
- 13 approximate 3 percent sulfur content which insures
- 14 compliance with the 6.6 pounds of SO2 per million
- 15 Btu limit on SO2 emissions from units one and three
- 16 specified at 35 Illinois Administrative Code,
- 17 214.561. Annual coal usage per unit two typically
- 18 averages one-half million tons of low sulfur coal.
- 19 Unit number two is currently limited to the use
- 20 of low sulfur coal to maintain compliance with the
- 21 1.8 pounds of SO2 per million Btu limit for unit two
- 22 specified by 35 Illinois Administrative Code,
- 23 214.141.
- 24 References in my testimony to the term "low

- 1 sulfur coal" means coal with a sulfur content low
- 2 enough to insure compliance with the 1.8 lb/MM Btu
- 3 SO2 emission limit. CILCO currently purchases low
- 4 sulfur coal for boiler number two from the Rend Lake
- 5 Coal Mine in Southern Illinois to insure compliance
- 6 with the 214.141 emission limit. Less coal is used
- 7 in unit two due to the higher fuel cost for the low
- 8 sulfur coal required to achieve compliance with the
- 9 1.8 lb/MM Btu SO2 emission limit.
- 10 CILCO has been notified by the owner of Rend
- 11 Lake Coal Mine that the Rend Lake low sulfur coal
- 12 will not be available in the year 2000. Once this
- 13 occurs, CILCO will be unable to purchase Illinois
- 14 coal and satisfy the 214.141 limit. Due to its
- 15 higher sulfur content, most Illinois coal cannot be
- 16 combusted in unit number two in compliance with the
- 17 1.8 lb/MM Btu SO2 emission limit imposed by
- 18 214.141. As a result, CILCO would have to purchase
- 19 low sulfur coal from outside of Illinois.
- 20 The delivered cost of non-Illinois low sulfur
- 21 coal is more expensive than the comparable low
- 22 sulfur Rend Lake, Illinois, coal. Although low
- 23 sulfur coal is available in several U.S. locations,
- 24 due to freight costs and combustion characteristics,

- 1 it is only economically feasible for CILCO to
- 2 purchase low sulfur coal from Indiana, eastern
- 3 Kentucky, and southern West Virginia mines.
- 4 My department assisted in preparation of the
- 5 charts below which illustrate the potential fuel
- 6 cost savings associated with the variance relief.
- 7 The figures in the chart are based on an assumed
- 8 annual fuel consumption in unit two of one-half
- 9 million tons, per ton cost based on the published
- 10 spot market prices including 6-1/4 percent tax and
- 11 freight for Illinois mid to higher sulfur coal, and
- 12 Indiana, eastern Kentucky, and southern West
- 13 Virginia low sulfur coal, and per ton cost based on
- 14 actual prices currently paid by CILCO for Illinois
- 15 low sulfur coal.
- 16 Based on this comparison, as illustrated by the
- 17 chart in the petition and in my written testimony,
- 18 it costs CILCO approximately 4 million dollars more
- 19 annually to fuel boiler number two with low sulfur
- 20 Illinois coal than it would to fuel boiler number
- 21 two with Illinois mid to high sulfur coal. Once
- 22 Illinois low sulfur coal is no longer available, it
- 23 is expected to cost CILCO between 5 million and
- 24 10 million dollars more annually to fuel boiler

- 1 number two with non-Illinois low sulfur coal than it
- 2 would to fuel boiler number two with Illinois mid to
- 3 high sulfur coal.
- 4 I'd like to explain and clarify information in
- 5 the chart. And I am working on the assumption
- 6 everybody has the chart that's referred to in my
- 7 testimony?
- 8 HEARING OFFICER JACKSON: I believe everyone
- 9 does.
- 10 MR. JOHN M. PLANCK: The first two line items
- 11 are provided in this particular chart to identify
- 12 the cost, our average cost of Illinois high sulfur
- 13 and Illinois mid sulfur coals. And as I've earlier
- 14 testified, we burn -- we're proposing burning --
- MS. DOCTORS: Excuse me one second. I believe
- 16 Mr. Wayne Kahila doesn't have a copy, so it will be
- 17 confusing.
- 18 MR. FALETTO: Okay. I think we have the only
- 19 copy.
- 20 MS. JAGIELLA: I thought we brought another
- 21 copy.
- 22 MR. FALETTO: Is that a set right there?
- 23 MS. DOCTORS: Yes. Thank you.
- 24 MR. ROBERT BISHA: This is another set

- 1 here.
- 2 MR. FALETTO: Okay. Thank you.
- 3 HEARING OFFICER JACKSON: Okay. Everyone has a
- 4 copy now of the chart? All right. You may proceed.
- 5 MR. PLANCK: Thank you. As I was earlier
- 6 stating, the first two line items in the chart
- 7 identify the two types of Illinois coal, mid sulfur
- 8 and high sulfur coal, that would go into the blend
- 9 that we could burn on unit two if we were to achieve
- 10 the variance as requested.
- And you can see, with high sulfur coal we're
- 12 talking \$24 a ton; mid sulfur coal, \$25 a ton. And
- 13 we're indicating there the annual cost of those
- 14 fuels would be 12 million dollars for the high
- 15 sulfur; and if you were using all mid sulfur, it
- 16 could be 12.5. Because we're going to blend, the
- 17 cost would be somewhere between the 12 and the 12.5
- 18 million dollars.
- We're comparing that to -- we're talking about
- 20 the Illinois low sulfur coal that we presently burn
- 21 in unit two; that's at \$32 a ton delivered into the
- 22 station and that cost is, for the half a million
- 23 tons, 16 million dollars. So you can see there the
- 24 difference between what we're proposing and what

- 1 we're presently doing would range between 3-1/2 to
- 2 4 million dollars, be the price differential between
- 3 those two fuel types.
- 4 In the year 2000 when we're no longer able to
- 5 secure the existing Illinois low sulfur coal that
- 6 we're using, we would have to go either to Indiana
- 7 -- which we've shown on the chart here. And if
- 8 you'll notice, there's two different sulfur
- 9 percentage ranges, and we've shown those because
- 10 there was an inadvertent error made in the original
- 11 exhibit -- I think it was 3 -- in our petition. And
- 12 one of my people picked up the wrong line item; and
- 13 they picked up the line item for Illinois low sulfur
- 14 coal -- actually, it's a mid sulfur coal at 2.5
- 15 percent. It should have been the Illinois low
- 16 sulfur coal that we're showing at the 1.2.
- 17 MS. JAGIELLA: Indiana.
- 18 MR. JOHN M. PLANCK: Excuse me, the Indiana,
- 19 that's correct, that I'm showing at 1.2 percent.
- 20 That is the correct coal type that we would be
- 21 using; and as a matter of fact, we have used that
- 22 coal previously in that, so we are familiar with the
- 23 supply and the cost associated with it.
- You can see it's \$38 a ton; so for a half a

- 1 million tons, that would be 19 million dollars for
- 2 that coal. And, again, if you compare that back to
- 3 what we're proposing under the variance, the
- 4 potential savings would be between 6-1/2 and
- 5 7 million dollars. If you look at the east Kentucky
- 6 low sulfur, that's more expensive; and the southern
- 7 West Virginia low sulfur, again, much more
- 8 expensive. So the obvious choice would be the
- 9 Indiana over either one of those two.
- But if you did have to go to those because that
- 11 was the only supply available, then you're looking
- 12 at potential cost differential of 9 to -- up to 10
- 13 million dollars spread between those two fuels,
- 14 so --
- 15 HEARING OFFICER JACKSON: Let me ask a quick
- 16 question to clarify. You're indicating as far as
- 17 the Indiana low sulfur coal, you would not be using
- 18 the 1.25?
- 19 MR. PLANCK: We would not. That is not a
- 20 compliance coal.
- 21 HEARING OFFICER JACKSON: Okay.
- MR. PLANCK: Would not meet the -- would not
- 23 meet the requirements.
- 24 HEARING OFFICER JACKSON: That's included in

- 1 this chart just to clarify the -- the mistake in the
- 2 petition?
- 3 MR. PLANCK: The mistake that was made when
- 4 they pick -- if you look in Exhibit -- I believe
- 5 it's 3, the proper numbers are in there; they just
- 6 simply picked off the wrong line.
- 7 HEARING OFFICER JACKSON: I see it in the
- 8 petition. It's on page seven.
- 9 MS. JAGIELLA: Yes.
- 10 HEARING OFFICER JACKSON: First chart. Okay.
- 11 Thank you very much.
- MR. FALETTO: It is Exhibit 3 of the petition.
- 13 HEARING OFFICER JACKSON: Very good. Please
- 14 continue.
- 15 MR. PLANCK: This fuel cost illustration is, in
- 16 part, based on published spot market prices of the
- 17 Illinois mid to high sulfur and non-Illinois low
- 18 sulfur coal. My department did not use CILCO's
- 19 actual fuel cost except for the delivered cost of
- 20 the Rend Lake low sulfur coal because, one, actual
- 21 costs are subject to coal and transportation
- 22 contract confidentiality clauses; two, CILCO did not
- 23 have contracts in place to provide such costs at the
- 24 time the petition for variance was prepared; and

- 1 three, the difference in cost savings between
- 2 published spot market prices for non-Illinois low
- 3 sulfur coal and Illinois mid to high sulfur coal and
- 4 contract prices CILCO can obtain is not that
- 5 significant.
- 6 I have reviewed the approach used by the
- 7 Illinois Environmental Protection Agency to estimate
- 8 the potential cost savings. The I.E.P.A. relied on
- 9 prices supplied, published by the U.S. Department of
- 10 Energy which are based on the average cost of all
- 11 coal types from a region for spot market and
- 12 contract coal cost. Based on this approach,
- 13 I.E.P.A. estimates CILCO would save between
- 14 1.6 million and 4 million dollars through the
- 15 variance relief. The cost savings estimates by
- 16 CILCO and I.E.P.A., which rely on various published
- 17 prices, are both reasonable approaches. However,
- 18 based on the actual coal prices CILCO has been able
- 19 to negotiate in the past and the contract fuel costs
- 20 CILCO expects to negotiate, the actual coal cost
- 21 savings will be closer to the 4 million dollars
- 22 annually than to the 1.6 million.
- 23 I am also responsible for providing fuel cost
- 24 information for development of an acid rain strategy

- 1 for compliance with the federal Clean Air Act. To
- 2 date, I have been unable to advise CILCO with
- 3 certainty whether it will be cheaper after
- 4 implementation of Phase Two of the Acid Rain Program
- 5 on January 1 of 2,000 to buy SO2 allowances and
- 6 operate under the terms of the requested variance
- 7 relief or to purchase low sulfur coal. This is due
- 8 to expected uncertainty in the cost and availability
- 9 of low sulfur coal.
- 10 Low sulfur coal is currently very expensive,
- 11 and supplies are not unlimited. Once Phase Two of
- 12 the Acid Rain Program become -- became -- becomes
- 13 effective, there is likely to be increased demands
- 14 for low sulfur coal. This demand should cause the
- 15 price of low sulfur coal to escalate. Unless low
- 16 sulfur coal becomes cheaper than it is now, which is
- 17 unlikely, it will probably be more cost effective to
- 18 purchase SO2 allowances and operate Edwards station
- 19 in compliance with the SO2 emission limits published
- 20 or established by the variance. While this appears
- 21 to be a likely scenario, it will be impossible to
- 22 predict with any certainty until the effect of Phase
- 23 Two of the Acid Rain Program on the low sulfur coal
- 24 market is actually observed.

- 1 That concludes my testimony.
- 2 HEARING OFFICER JACKSON: Thank you. Any
- 3 cross-examination?
- 4 MS. DOCTORS: Just a couple questions.
- 5 CROSS-EXAMINATION
- 6 BY MS. DOCTORS:
- 7 Q. What is the typical term of a coal
- 8 contract like the one you have with Rend Lake -- not
- 9 that one in particular, but how long do your coal
- 10 contracts usually last for?
- 11 A. At the present time, we're entering into
- 12 only one-year agreements.
- 13 Q. Is that shorter than they've been in the
- 14 past?
- 15 A. Yes.
- 16 Q. In the past, how long have these contracts
- 17 gone for?
- 18 A. Probably typically be more like three
- 19 years.
- Q. Just for the record, can you explain what
- 21 it means to use the spot market price?
- A. Spot market pricing is what coal is
- 23 currently being offered either by the coal companies
- 24 directly through solicitation or in published

- 1 indices that are prepared in the industry and that
- 2 are tracking what coal prices are and that, given
- 3 the various types and regions. But it's intended to
- 4 be purchases of coal for a short duration, typically
- 5 less than a year. It may be for a shorter time
- 6 frame, as a single trainload of coal for a month, or
- 7 it could be multi-months; but it's typically
- 8 considered less than a year.
- 9 Q. So do spot market prices tend to be higher
- 10 than prices that can be negotiated by contract?
- 11 A. They -- they could be higher or lower. At
- 12 the present time, we're typically finding spot
- 13 prices are maybe slightly lower than contract. When
- 14 you get into a contract of a long duration, there's
- 15 uncertainty involved. Both the purchaser and the
- 16 supplier have uncertainty as to where the future
- 17 prices may be, and so they both will have a tendency
- 18 trying to hedge; and as a consequence of that,
- 19 typically a long-term contract will typically have
- 20 higher pricing in it than spot pricing.
- Q. What are the prices for western coal?
- 22 A. Western coal itself -- are you talking
- 23 coal, the commodity price itself?
- MS. DOCTORS: Is that your question?

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- 1 MR. KALEEL: Low sulfur western coals.
- 2 MR. PLANCK: FOB mine? The price of coal, or
- 3 are you talking about delivered into the station?
- 4 MR. KALEEL: Delivered into the station.
- 5 MR. PLANCK: Delivered into the station. We
- 6 really haven't visited any prices recently for
- 7 western supplies. We cannot burn western coal in
- 8 our units. Our boilers aren't designed for burning
- 9 that. We tried to burn it back in the Seventies
- 10 with terrible results; and it de-rates our units,
- 11 causing us to get much lower capabilities out of
- 12 them.
- 13 And so, as a consequence, we have not obtained
- 14 coal pricing; so I really cannot tell you what
- 15 current price would be delivered into the station.
- 16 Q. Is there a material difference, is that
- 17 what the issue is with western coal? You're saying
- 18 you can't use it?
- 19 A. In the quality?
- Q. In the quality.
- A. Yes, yes.
- Q. Can you just briefly explain what the
- 23 problem is?
- A. It's a very low Btu fuel. It -- the ash

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- 1 characteristics are such that in many instances it
- 2 has a much higher level of sodium in the ash.
- 3 Sodium causes -- can cause problems either with your
- 4 precipitators or with the ash formation within the
- 5 boiler itself that causes the ash to accumulate.
- 6 You can't remove it from the furnace walls as
- 7 well as the back passes of the boiler, and it
- 8 literally -- our experience was that it literally
- 9 plugged the boiler up to the point where we could no
- 10 longer move the combustion gasses through the unit.
- 11 That's probably one of the major problems with
- 12 it.
- 13 Q. So you would need a different boiler
- 14 design to use western coal?
- 15 A. We -- we would need to modify our boilers
- 16 significantly, yes, to try to successfully boil.
- 17 Q. Okay. And then what percent -- I realize
- 18 that the exact cost of transportation and so forth
- 19 is covered by a confidentiality clause, but roughly
- 20 what percentage of your costs are due to
- 21 transportation?
- 22 A. For which supply, because they do vary.
- Q. For your low sulfur.
- A. The present supply that we're using?

- 1 Q. Yes.
- 2 A. Probably the percentage of freight to the
- 3 overall cost is -- gotta stop and think -- it's
- 4 probably about a seventh of the cost, one-seventh,
- 5 whatever percentage that is.
- 6 Q. And assuming that the western coal could
- 7 be burned in your boiler, what percentage of the
- 8 transportation costs would the total -- of the total
- 9 would that be?
- 10 A. It would probably be about 80 percent.
- 11 MS. DOCTORS: That's all the questions I have.
- 12 Thank you.
- 13 HEARING OFFICER JACKSON: I do have a couple of
- 14 questions myself, kind of following up on that. In
- 15 the petition you indicate that you cannot provide
- 16 the Board with the actual price per ton of the
- 17 Illinois low sulfur coal because that's subject to a
- 18 confidentiality clause in your contract?
- 19 MR. PLANCK: Uh-huh.
- 20 HEARING OFFICER JACKSON: Is that correct?
- 21 MS. JAGIELLA: Let me clarify. Actually, no,
- 22 the actual total delivered cost of the Illinois low
- 23 sulfur coal is in the petition. We're using that
- 24 actual number. The numbers we're not using are mid

- 1 to high Illinois or non-Illinois low sulfur coal.
- 2 HEARING OFFICER JACKSON: Okay.
- 3 MR. PLANCK: And we just didn't provide the
- 4 breakdown of that particular one to --
- 5 HEARING OFFICER JACKSON: Right. I guess maybe
- 6 what I'm getting at is the price not delivered of
- 7 the low sulfur Illinois coal. If you'd take out the
- 8 tax and take out the freight, I don't believe that
- 9 price was in the petition.
- 10 MS. JAGIELLA: No, it wasn't.
- 11 MR. PLANCK: No.
- 12 HEARING OFFICER JACKSON: Okay. That's the
- 13 price that's subject to the confidentiality clause,
- 14 correct?
- MR. PLANCK: Yes, as would be the freight cost
- 16 itself. Both the railroads are concerned about
- 17 having their freight rates divulged, as are the coal
- 18 -- coal company for the price of coal.
- 19 HEARING OFFICER JACKSON: Okay. So with that
- 20 understanding, my question is, how does the actual
- 21 price per ton, without tax and without freight, of
- 22 the Illinois low sulfur coal compare -- I mean, it's
- 23 less than the total cost, the total cost being \$32
- 24 per ton, correct?

- 1 MR. PLANCK: Right.
- 2 HEARING OFFICER JACKSON: How does that compare
- 3 to the actual price per ton of the non-Illinois low
- 4 sulfur coal, not including tax and not including
- 5 freight?
- 6 MR. PLANCK: On a per ton basis, it will be
- 7 slightly higher than the Indiana, and it will be
- 8 somewhat lower than the Kentucky, east Kentucky, and
- 9 the West Virginia.
- 10 HEARING OFFICER JACKSON: And how does it
- 11 compare to the mid to high Illinois sulfur coal?
- MR. PLANCK: The combination, it would be
- 13 slightly higher.
- 14 HEARING OFFICER JACKSON: The low sulfur coal
- 15 would be higher?
- 16 MR. PLANCK: Yes.
- 17 HEARING OFFICER JACKSON: Okay. Then you
- 18 mentioned that right now the contracts you're
- 19 entering into are for shorter terms. Why is that?
- MR. PLANCK: We have found that the pricing on
- 21 the spot market and up to a year is more favorable
- 22 than to attempt to enter into a long-term.
- 23 Plus, at the present time, since we don't
- 24 really know yet how we want to proceed into the year

- 1 2000, under Phase Two what -- what particular fuel
- 2 types we're going to be using. We didn't want to
- 3 commit to coals and that. So we made sure that all
- 4 of our fuel contracts for this year terminate at the
- 5 end of this calendar year so that we have the
- 6 flexibility to then proceed with whatever fuel type
- 7 we need in the year 2000.
- 8 HEARING OFFICER JACKSON: So that was a
- 9 decision that CILCO made rather than the coal
- 10 companies, to make the contracts for shorter terms?
- 11 MR. PLANCK: Yes, that was a CILCO decision.
- 12 HEARING OFFICER JACKSON: Okay. Then -- I
- 13 think you might have already answered this, but just
- 14 to clarify, in response to a question by Ms. Doctors
- 15 you indicated that the long-term contract prices
- 16 tend to be higher than the spot market prices; and
- 17 the short-term contracts like you're in now would
- 18 tend to be lower than the spot market prices?
- 19 MR. PLANCK: No. The -- the short term and
- 20 spots are one and the same. There's -- they're --
- 21 if I led you to believe those are different pricing,
- 22 they are not. That's the same. That's what we've
- 23 been calling spot. Short term is spot. Longer than
- 24 a year, we would consider that a long-term type

- 1 contract arrangement.
- 2 HEARING OFFICER JACKSON: Okay. Thank you.
- 3 Those are the only questions I had.
- 4 Anything else for this witness?
- 5 MR. FALETTO: We have nothing further.
- 6 HEARING OFFICER JACKSON: Okay. Thank you,
- 7 Mr. Planck.
- 8 MR. FALETTO: Our last -- or our third witness
- 9 and our last witness is John E. Shrock with QST
- 10 Environmental. Mr. Shrock is Manager of the Air
- 11 Resources Division for the QST Gainesville office.
- We would mark his testimony, guess we're at
- 13 Exhibit J.
- Rachel, do you have a copy of his testimony?
- 15 MS. DOCTORS: Yes, I do. Thank you.
- MR. FALETTO: Mr. Shrock, do you have a true
- 17 copy of your testimony?
- 18 MR. SHROCK: Yes.
- 19 MR. FALETTO: And we would ask at this time, if
- 20 there are no objections, to admit -- move to admit
- 21 the testimony -- his written testimony into the
- 22 record of this proceeding.
- 23 HEARING OFFICER JACKSON: Ms. Doctors, does the
- 24 Agency have any objection?

- 1 MS. DOCTORS: No.
- 2 HEARING OFFICER JACKSON: Okay. Exhibit J is
- 3 so admitted.
- 4 Mr. Shrock, you may proceed.
- 5 MR. JOHN E. SHROCK: Okay. My name is John E.
- 6 Shrock. I'm employed by QST Environmental in
- 7 Gainesville, Florida. I currently hold the position
- 8 of Manager of the Air Resources Division. My
- 9 education includes a Bachelor's degree in physics
- 10 and a Master's degree in environmental science from
- 11 Indiana University.
- 12 Approximately half of my 22 years of air
- 13 quality experience were with the state regulatory
- 14 agency where I performed and reviewed numerous air
- 15 dispersion modeling studies. I have also managed a
- 16 large number of air permitting projects for a wide
- 17 range of industries, many of which have included
- 18 demonstrations of compliance with Ambient Air
- 19 Quality Standards based on dispersion modeling.
- 20 QST was retained by the Central Illinois Light
- 21 Company, CILCO, to determine the air quality impact
- 22 of increased operational flexibility for boiler
- 23 number two at the E.D. Edwards electrical generating
- 24 station in Bartonville, Illinois. The increased

- 1 operational flexibility would allow the use of
- 2 higher sulfur coal in boiler number two while
- 3 maintaining compliance with the current plant-wide
- 4 sulfur dioxide emission limit.
- 5 The proposed change in fuel quality does not
- 6 involve an increase in facility SO2 emissions or
- 7 constitute a major modification and would not be
- 8 subject to new source review. However, because the
- 9 three units in the two stacks at the Edwards station
- 10 are not identical, there existed the possibility of
- 11 a NAAQS air quality change under some meteorological
- 12 conditions. Therefore, QST designed a study of the
- 13 ambient air quality effects resulting from proposed
- 14 variance relief to determine whether changes in air
- 15 quality would be acceptable and would not threaten
- 16 the National Ambient Air Quality Standard for SO2.
- 17 The study designed by QST was based on a
- 18 conservative air dispersion modeling approach
- 19 utilizing an assumed or artificial plant
- 20 configuration that would result in the maximum air
- 21 quality impact. Only instances when a significant
- 22 impact was produced was the proposed change
- 23 considered. According to the Code of Federal
- 24 Regulations, CFR 51.15 -- 165, a major source or

- 1 major modification will be considered to cause or
- 2 contribute to a violation of a National Ambient Air
- 3 Quality Standard when such source or modification
- 4 would, at a minimum, exceed the significance levels
- 5 at any locality that does not or would not meet the
- 6 applicable national standard.
- 7 The significance levels for SO2 are defined as
- 8 five micrograms per cubic meter over any 24-hour
- 9 period, 25 micrograms per cubic meter over any
- 10 3-hour period, and one microgram per cubic meter
- 11 annual average.
- 12 Under my supervision, QST utilized
- 13 state-of-the-art, Agency-approved dispersion
- 14 modeling methodology to predict the SO2
- 15 concentrations that could result from the additional
- 16 operating flexibility being requested by CILCO. The
- 17 modeling analyses proceeded with substantial input
- 18 from my E.P.A. technical staff, particularly in
- 19 defining the emissions inventory of other SO2
- 20 sources to be included in the modeling study, and
- 21 incorporating background SO2 concentrations which
- 22 represented the additional SO2 emissions from small
- 23 sources such as motor vehicles, commercial
- 24 incineration, fires, and transport of SO2 from

- 1 outside of the Peoria area.
- 2 In addition, QST's modeling methodology assumed
- 3 operating conditions at Edwards station with the
- 4 variance relief and conditions that would result in
- 5 the highest ground level SO2 concentrations.
- 6 QST's ambient air quality impact analysis
- 7 follow the straightforward two-step process: First,
- 8 QST identified all instances where the difference in
- 9 the existing and proposed operation of CILCO Edwards
- 10 unit two would result in a recognizable effect on
- 11 air quality; second, QST examined whether the NAAQS
- 12 for SO2 would be exceeded at any time or at any
- 13 location where the worst case modeling predicted a
- 14 recognizable effect.
- 15 The results of QST's study and analysis were
- 16 set forth in a report dated December 9, 1998,
- 17 entitled Air Quality Demonstration in Support of a
- 18 Variance to Burn Higher Sulfur Coal at Unit Two of
- 19 the Edwards Station, hereafter referred to as air
- 20 quality report. The QST study and analysis were
- 21 completed with my involvement and under my direct
- 22 supervision, and the air quality report was prepared
- 23 under my direct supervision. A true and correct
- 24 copy of the air quality report was attached to

- 1 CILCO's petition for variance as Exhibit 5.
- 2 A principle task in the ambient air quality
- 3 impact analysis was the development of the emissions
- 4 inventory. In addition to the Edwards station,
- 5 other point sources of SO2 were included in the
- 6 modeling study. The other sources were selected
- 7 based on their size and proximity to the Edwards
- 8 station, according to the Illinois Environmental
- 9 Protection Agency guidelines. Other sources of SO2
- 10 which were not directly modeled were accounted for
- 11 in the background estimate. The current facility
- 12 emissions cap of 34,613 pounds per hour will remain
- 13 in place under the terms of the proposed variance
- 14 relief because modeling indicated that stack one,
- 15 serving unit one and two, has slightly poorer
- 16 dispersion characteristics than stack two, serving
- 17 unit three. Emissions from unit one and two were
- 18 maximized based on 6.6 lb/MM Btu input rate.
- 19 The balance of the emissions, 4,613 pounds per
- 20 hour, were assigned to unit three, corresponding to
- 21 2.762 lb/MM Btu. Exhaust gasses from unit one and
- 22 two are routed through stack number one, and those
- 23 from unit three are routed through stack number
- 24 two. C.D.M. data collected in 1997 for each of the

- 1 units were used to develop a relationship between
- 2 load, exhaust, gas, temperature, and flow rate for
- 3 each stack.
- 4 Standard Glen air regressions were performed on
- 5 the data to allow estimations of temperature and
- 6 flow rates under a variety of load conditions.
- 7 Projections were made of temperature and flow rates
- 8 for various load conditions for each unit. The
- 9 standard flow rates were corrected to actual
- 10 conditions, and the temperature values were
- 11 converted to degrees Kelvin. Several load
- 12 combinations for unit one and two were used to
- 13 calculate the resulting flow rate and temperature
- 14 values for stack number one. The flow rates and
- 15 stack diameters, 21 feet for stack one, and 25 feet
- 16 for stack two, were used to calculate the stack gas
- 17 exit velocities.
- 18 Other SO2 emission sources: Data for modeling
- 19 the other sources were supplied by the I.E.P.A. and
- 20 consisted of the following: One, hourly and annual
- 21 emission inventory system information; and, two, an
- 22 input file from the Pekin Energy Modeling Study.
- 23 Source selection was based on the I.E.P.A. screening
- 24 method for emission inventory sources, also referred

- 1 to as the Q equals 10D method. For this procedure,
- 2 if the source submission rate, Q, in tons is less
- 3 than 10 times the distance, D, in kilometers from
- 4 the source of interest -- which it was the Edwards
- 5 station -- it may be excluded from the modeling
- 6 study. However, any source within five kilometers
- 7 must be included regardless of the emission rate.
- 8 E.I.S. information supplied by I.E.P.A.
- 9 included 104 sources, including the three CILCO
- 10 Edwards station boilers. Of these, 37 sources did
- 11 not meet the 10D greater than Q criteria and were
- 12 thus considered in the modeling. Three additional
- 13 sources that met the 10D greater than Q criteria
- 14 were also included since they are within five
- 15 kilometers of the Edwards station.
- 16 The I.E.P.A. also provided QST with
- 17 supplementary information in the form of an input
- 18 file used in a recent modeling study for the Pekin
- 19 energy facility. The information in this file was
- 20 considered better for modeling purposes and take
- 21 precedence over the E.I.S. when there was conflict.
- 22 This resulted in some parameter changes as well as
- 23 the elimination of a source. A total of 41 sources,
- 24 including the three Edwards station units, were

- 1 included in the SO2 emission inventory for the
- 2 modeling study.
- 3 Modeling methodology overview: The methodology
- 4 used in this study was consistent with the U.S.
- 5 Environmental Protection Agency modeling guidance as
- 6 contained in 40 CFR, 51, Appendix W. The most
- 7 recent version -- versions of E.P.A. Screen and
- 8 Industrial Source Complex -- I.S.C. -- Three models
- 9 were used in this analysis. Screen Three was used
- 10 to determine the worst case load condition. Screen
- 11 three incorporates a range of possible
- 12 meteorological conditions appropriate for this
- 13 simplified analysis. I.S.C. Three is a refined
- 14 dispersion model capable of evaluating many sources
- 15 and receptor points simultaneously. The short-term
- 16 version of I.S.E. Three, which requires hourly
- 17 meteorology, was used to calculate the hourly
- 18 concentrations needed for evaluating significance
- 19 and compliance with the NAAQS.
- 20 Meteorological data processed for input to the
- 21 I.S.C. Three model was supplied by I.E.P.A. Five
- 22 separate years, 1987 through 1991, were used in the
- 23 modeling. The data were based on hourly surface and
- 24 twice-per-day upper air observations at the Peoria

- 1 airport. An extensive receptor grid of over 1,195
- 2 points was developed for the modeling. A receptor
- 3 is a geographic location at which the model
- 4 calculates concentration. Receptor spacing was one
- 5 kilometer in the vicinity of Edwards station and
- 6 other nearby and larger sources. At the further
- 7 edges of the modeled area of the receptor, spacing
- 8 was increased to two kilometers. The receptor
- 9 elevations were determined from examination of
- 10 7.5-minute series U.S. Geological Survey maps. The
- 11 elevation assigned to each receptor was the highest
- 12 elevation encountered in a sector as defined by
- 13 current E.P.A. modeling guidance.
- 14 The Edwards station is defined as a rural
- 15 source, according to E.P.A. modeling guidance, which
- 16 relies on land use classifications within a three-
- 17 kilometer radius to make the determination. Since
- 18 many of the other sources and most of the modeling
- 19 domain are rural, based on this classification
- 20 scheme, the modeling was performed using the rural
- 21 dispersion coefficients for all sources.
- In addition to the contribution to air quality
- 23 from the modeled sources, a reasonable estimate of
- 24 the impact of sources not included in the modeling

- 1 was made for the comparison to the NAAQS for SO2.
- 2 These include many small sources such as cars,
- 3 heating units, commercial incineration, fires, and
- 4 transport of SO2 from beyond the Peoria area. The
- 5 Pekin monitor was selected as being reasonably
- 6 representative of the modeling domain for the
- 7 purposes of developing the background SO2 values for
- 8 use in this study. The I.E.P.A. supplied a file of
- 9 hourly SO2 concentrations collected at the Pekin
- 10 monitoring site during 1997. Hourly observations
- 11 from the Peoria airport of wind direction and other
- 12 meteorological parameters for the same year were
- 13 obtained from the National Climatic Data Center.
- 14 The wind directions were matched with the SO2
- 15 monitored values. The data included times when the
- 16 monitor was being impacted by sources included in
- 17 the modeling. To avoid double-counting, those
- 18 monitor values were eliminated. The directions from
- 19 sources to the monitor were determined, and SO2
- 20 background concentrations were interpolated for wind
- 21 directions within 10 degrees of a modeled source.
- 22 The hourly maximums ranged from 42 to 472 micrograms
- 23 per cubic meter. The hourly averages ranged from
- 24 8 to 18 micrograms per cubic meter with an overall

- 1 average of 13 micrograms per cubic meter.
- Worst case load determination: The conditions
- 3 of the proposed variance relief would allow each
- 4 unit at Edwards station to emit SO2 up to the rate
- 5 of 6.6 lb/MM Btu. However, since the hourly
- 6 emissions cap of 34,613 pounds per hour would be
- 7 maintained, it would not be possible for all three
- 8 units to operate simultaneously at full load with
- 9 the higher lb/MM Btu emission rate. In other words,
- 10 a higher emission rate from one unit must be offset
- 11 by a reduced emission rate from one or both of the
- 12 remaining units.
- 13 In an attempt to limit the analysis to a
- 14 manageable number of combinations, it was necessary
- 15 to determine the load condition that would result in
- 16 the highest ground level SO2 concentration from the
- 17 plan. E.P.A.'s Screen Three model was used to
- 18 predict hourly concentrations of SO2 that would
- 19 result from a variety of load conditions. Screen
- 20 Three incorporates a full range of meteorological
- 21 conditions to produce predicted hourly ground level
- 22 concentrations. Three load conditions -- 100, 75
- 23 and 50 percent -- were run for each boiler. The
- 24 highest concentration, 502 micrograms per cubic

- 1 meter, resulted from the operation of all three
- 2 boilers at full load. Therefore, 100 percent load
- 3 operations for all boilers was considered to be the
- 4 worst case condition for this study.
- 5 To demonstrate that CILCO's proposed variance
- 6 would not result in an adverse air quality impact,
- 7 QST's analysis utilized the following two-step
- 8 process: Identify all instances where the
- 9 difference in the existing and proposed operations
- 10 would result in a significant impact; and, secondly,
- 11 assure that a violation of the SO2 NAAQS would not
- 12 be predicted to occur at any time or location when
- 13 the Edwards station was impacting significantly.
- Modeling was conducted to determine if any
- 15 significant impacts would occur as a result of the
- 16 proposed variance. As previously discussed, the
- 17 significant SO2 impact is defined in this study as a
- 18 difference in contribution between the existing and
- 19 proposed conditions that is greater than
- 20 5 micrograms per cubic meter over a 24-hour
- 21 averaging period, 25 micrograms per cubic meter over
- 22 a 3-hour averaging period, and 1 microgram per cubic
- 23 meter over the annual averaging period. The degree
- 24 of significance was determined by modeling the

- 1 existing and proposed source conditions at CILCO
- 2 Edwards station and computing the difference. This
- 3 was accomplished in the model by running the
- 4 existing condition as a negative -- as negative
- 5 emission rates and the proposed condition as
- 6 positive emission rates; thus, the concentrations
- 7 predicted at each receptor represent the net
- 8 increase or decrease resulting from the change in
- 9 operation. These modeling results indicated that
- 10 876 of the 1,195 receptors never had an increase
- 11 greater than 5 micrograms per cubic meter in any
- 12 24-hour period over the five model years.
- 13 Similarly, 628 receptors were identified that never
- 14 had an increase greater than 25 micrograms per cubic
- 15 meter in any 3-hour period. These receptors were
- 16 removed from further study, leaving 319 receptors to
- 17 be analyzed for the 24-hour averaging period and 567
- 18 receptors for the 3-hour averaging period. There
- 19 were no instances of the annual significance level
- 20 being exceeded.
- 21 Further analyses were conducted to determine if
- 22 there were any periods in which a predicted,
- 23 significant increase resulted from the proposed
- 24 change in CILCO operations -- I'm sorry, resulting

- 1 from the proposed change in CILCO operations
- 2 corresponded with the predicted exceedence of the
- 3 NAAQS.
- 4 Comparison with 3-hour NAAQS: For the 3-hour
- 5 averaging period, only 1,177 significant events were
- 6 predicted. 99.993 percent of events were not
- 7 significant. Of the significant events, the highest
- 8 total model concentration was 465 micrograms per
- 9 cubic meter. The 3-hour background concentration
- 10 developed from a 1997 Pekin monitor data for that
- 11 event was 13 micrograms per cubic meter.
- During -- using this as a conservative
- 13 background number would result in a predicted
- 14 concentration of 478 micrograms per cubic meter
- 15 which is well below the standard of 1300 micrograms
- 16 per cubic meter. Therefore, it can be concluded
- 17 that there are no predicted exceedences of the
- 18 3-hour Ambient Air Quality Standard for SO2 during
- 19 which the proposed change in Edwards station
- 20 operations results in a significant impact.
- 21 For the 24-hour averaging period, only 439
- 22 significant events were predicted. 99.98 percent of
- 23 the events were not significant. The highest model
- 24 concentration of 271 micrograms per cubic meter was

- 1 predicted to occur in 1989. The background air
- 2 quality value of 12 micrograms per cubic meter was

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- 3 computed for this event, resulting in a total
- 4 predicted concentration of 283 micrograms per cubic
- 5 meter. This is well below the 24-hour Ambient Air
- 6 Quality Standard for SO2 of 365 micrograms per cubic
- 7 meter.
- 8 Similar to the analysis for the 3-hour
- 9 standard, it can be concluded that there are no
- 10 predicted exceedences of the 24-hour Ambient Air
- 11 Quality Standard during which the proposed change in
- 12 the CILCO Edwards station operations results in a
- 13 significant impact.
- 14 In April 1995, the E.P.A. redesignated Peoria
- 15 and Tazewell Counties back to attainment status for
- 16 the primary and secondary SO2 National Ambient Air
- 17 Quality Standards, 60 Federal Regulation 16.996. In
- 18 returning this area to attainment status, the E.P.A.
- 19 recognized the substantial SO2 emission reduction
- 20 achieved through federally-enforceable restrictions
- 21 and permanent source closures. The redesignation
- 22 was based on dispersion modeling completed in 1986
- 23 to support I.E.P.A.'s data implementation plan,
- 24 submittal, and the lack of any monitored exceedence

- 1 since 1977. The dispersion modeling which
- 2 demonstrated attainment was based on a -- on a
- 3 number of major SO2 emission sources that have been
- 4 permanently shut down or controlled. In its
- 5 decision, U.S. E.P.A. noted actual SO2 emissions in
- 6 1993 from point sources remained at less than
- 7 23 percent of the allowable emissions that were
- 8 modeled in the attainment demonstration in a 1986
- 9 submittal.
- 10 As demonstrated by QST's analyses, there would
- 11 be no predicted exceedences of the 3-hour, 24-hour,
- 12 or annual NAAQS for SO2 that would result from the
- 13 additional operating flexibility CILCO is requesting
- 14 in this petition. Even assuming worst case
- 15 conditions and maximum allowable power generation,
- 16 there would be no adverse effect on air quality by
- 17 relaxing the current unit-based emission limitation
- 18 for Edwards unit two, primarily because any SO2
- 19 emission increase from unit two is fully offset by
- 20 the emissions decreases from unit one and three
- 21 necessary to maintain the plant-wide SO2 emission
- 22 limitation.
- 23 HEARING OFFICER JACKSON: Ms. Doctors, do you
- 24 have any cross-examination?

- 1 MS. DOCTORS: Just two clarifying questions.
- 2 MR. SHROCK: Uh-huh.
- 3 CROSS-EXAMINATION
- 4 BY MS. DOCTORS:
- 5 Q. Were the models run in the regulatory
- 6 mode? In other words, were input options set at the
- 7 regulatory default?
- 8 A. Yes, they were.
- 9 Q. And second, was downwash from the Edwards
- 10 station considered, meaning do the stacks meet or
- 11 exceed the height needed to avoid downwash?
- 12 A. The stacks are greater than two and a half
- 13 times any building tier height.
- 14 Q. Okay.
- 15 A. So downwash wasn't needed to be
- 16 considered.
- 17 MS. DOCTORS: Thank you.
- 18 HEARING OFFICER JACKSON: Okay. Let's go off
- 19 the record for one second.
- 20 (A discussion was held off the record.)
- 21 HEARING OFFICER JACKSON: As I just advised the
- 22 parties off the record, I had neglected to have the
- 23 witnesses sworn in before they read their testimony
- 24 into the record; so we will now, at this point, have

- 1 the court reporter swear the three CILCO witnesses
- 2 in. And then before the Agency begins their
- 3 testimony, we will do the same for the Agency
- 4 witnesses.
- 5 (Whereupon, Mr. Bisha, Mr. Planck, and Mr.
- 6 Shrock were duly sworn in by the court reporter.)
- 7 HEARING OFFICER JACKSON: Thank you very much.
- 8 All right. Before we finish with the CILCO
- 9 witnesses, I do have a couple follow-up questions.
- 10 And I wasn't sure which individual would be best to
- 11 answer the questions; so I will just direct them to
- 12 the CILCO witnesses, and whichever one feels best
- 13 qualified can answer. Is that acceptable?
- 14 MS. JAGIELLA: Yes.
- 15 HEARING OFFICER JACKSON: Okay. First of all,
- 16 this refers back to page three of your petition.
- 17 You indicate that you would immediately experience a
- 18 cost savings of 4 million dollars annually if the
- 19 variance is granted through lower fuel costs, and
- 20 that this would allow for the purchase of additional
- 21 tons of Illinois coal; and then there would be an
- 22 additional cost savings of one million dollars as a
- 23 result of that.
- 24 My question is, this additional one million

- 1 dollars of cost savings, is that attributable to the
- 2 purchase of the additional 500,000 tons of Illinois
- 3 coal, or is that in addition to the 4 million cost
- 4 savings annually? If you can just explain that a
- 5 little bit further?
- 6 MR. BISHA: I think John will address that.
- 7 HEARING OFFICER JACKSON: Okay.
- 8 MR. PLANCK: Yeah, I'm not really understanding
- 9 the question, so --
- 10 HEARING OFFICER JACKSON: There's a couple of
- 11 figures in there, 4 million dollar annual savings,
- 12 and then a one million dollar savings. And the
- 13 Board wanted some clarification as to whether that
- 14 one million dollar figure is in addition to the
- 15 4 million; and if so, what exactly is that
- 16 attributable to?
- 17 MS. JAGIELLA: I think the original for -- let
- 18 me -- then you tell me, John. The original -- if
- 19 you look at the chart in the petition and you look
- 20 at the original cost comparison, which is Illinois
- 21 mid to high sulfur coal with the cost of Illinois
- 22 low sulfur coal, you will see that that's about a
- 23 4 million dollar difference.
- 24 The additional one million dollars here, I

- 1 think that it is trying to encapsulate that
- 2 difference between additional out-of-state low
- 3 sulfur coal in comparison to the Illinois mid to
- 4 high sulfur coal, in that one year that it would be
- 5 at least an additional million dollars.
- 6 I think that what that was attempting to
- 7 capture was that second comparison between Illinois
- 8 mid to high and non-Illinois low sulfur coal.
- 9 MR. FALETTO: In the future years.
- 10 MR. PLANCK: If you go to the chart again that
- 11 I had in my testimony, you saw that there was a
- 12 significant difference between the 3-1/2 to
- 13 4 million dollars that we had with the present fuel
- 14 supply and what we were proposing; and then after
- 15 the year 2000, the three different types of fuel
- 16 supplies that we would have to go to --
- 17 HEARING OFFICER JACKSON: Uh-huh.
- 18 MR. PLANCK: -- if we didn't have the variance
- 19 and that. And so when we say at a minimum, it was
- 20 definitely at a minimum because we were jumping up
- 21 to, you know, 6, 7, up to 10 million dollars
- 22 potentially that you could be looking at. So we
- 23 were just saying, at a minimum, if you have to go
- 24 out of state for your supply in the year 2000, your

- 1 costs are going to increase above the 4 million by
- 2 at least -- at least another million.
- 3 MS. JAGIELLA: I think CILCO's testified -- and
- 4 I think it's in the petition, too -- that based on
- 5 their analysis of their actual costs, the real cost
- 6 savings will be about 4 million dollars, taking into
- 7 account everything, including what the actual
- 8 contract costs would be.
- 9 So maybe that's the most simple way to look at
- 10 it, rather than trying to -- I think this was an
- 11 attempt to capsulize something incrementally that
- 12 maybe is more confusing than just using the chart.
- 13 HEARING OFFICER JACKSON: Okay. That helps.
- 14 Next question then. In the petition, you also state
- 15 that you cannot provide at this time a plan for full
- 16 compliance because you've not yet finalized your
- 17 Acid Rain Program strategy; you don't know what's
- 18 going to happen with that. Since the Acid Rain
- 19 Program strategy does have to be in place by
- 20 January 1 of the year 2000, would it be appropriate
- 21 for the Board to require CILCO, if this variance is
- 22 granted, to --
- 23 MS. JAGIELLA: I'm sorry. Go ahead.
- 24 HEARING OFFICER JACKSON: -- to provide to the

- 1 Board or to the Agency a plan for full compliance in
- 2 the year 2000?
- 3 MS. JAGIELLA: I think that that reference to a
- 4 not -- plan not for full compliance didn't go to the
- 5 Acid Rain Program itself. CILCO has to comply; and
- 6 that what we proposed was a plan for compliance in
- 7 terms of the variance, and that their compliance
- 8 plan for the Acid Rain Program is not part of the
- 9 compliance plan under this variance.
- 10 I probably haven't said that very well. Would
- 11 you like to articulate it any better?
- 12 MR. FALETTO: Probably should have --
- 13 MR. PLANCK: In the testimony, I was just
- 14 simply saying that how we do it hasn't been
- 15 finalized. We will certainly comply. There is no
- 16 -- that is not an issue. You know, we will
- 17 certainly comply. It's just how we're going to do
- 18 it in terms of the combination of fuels and SO2
- 19 credits is still the outstanding issue; and so we
- 20 can certainly go into the year 2000 and still not
- 21 have that finalized, but we'll be in compliance. We
- 22 will use a combination of fuels and SO2 credits;
- 23 certainly be in compliance at all times, but we want
- 24 to see what's going to happen in the market.

- 1 HEARING OFFICER JACKSON: I think our concern
- 2 was that, in the regulations, a petitioner for a
- 3 variance is required to provide the Board with a
- 4 plan for compliance once the variance expires. What
- 5 are the plans to come into compliance at that
- 6 point?
- 7 And it was not clear in the petition that that
- 8 was set forth or that you were even able to do that
- 9 at this time because of this future uncertainty.
- 10 MS. JAGIELLA: Our attempt was to address that
- 11 in that follow-up letter.
- 12 HEARING OFFICER JACKSON: Okay. That's getting
- 13 to my next question then. That was clarified in the
- 14 dates that we talked about earlier, that by January
- 15 31st of 2002, you will either allow the variance to
- 16 expire or you will notify the Agency that you'll
- 17 plan to seek site-specific rulemaking? Those would
- 18 be the plans for compliance?
- 19 MS. JAGIELLA: Right. Right.
- 20 HEARING OFFICER JACKSON: Okay. Very good.
- 21 Ms. Doctors, did you have something you wanted to
- 22 add?
- 23 MS. DOCTORS: I was just going to maybe
- 24 articulate the Agency's understanding that the acid

- 1 rain issues were separate from this variance
- 2 proceeding; that they have a federal requirement and
- 3 a state permit for the Acid Rain Program where it's
- 4 taken care of in -- I think it also has to do with
- 5 the -- they're allowed to do the true-up at the end
- 6 of the period, the end of the -- there's a true-up
- 7 period. At that point, if they need to purchase
- 8 additional allowances or whatever, they will. So
- 9 that's why it makes sense for them not to know
- 10 today. But in the future, if they need to buy more
- 11 allowances or do something differently, they -- it's
- 12 a little different than our standard regulation.
- 13 HEARING OFFICER JACKSON: Okay.
- MS. DOCTORS: I don't know if that helped
- 15 either.
- 16 HEARING OFFICER JACKSON: That does. That
- 17 helps to clarify. And these questions may actually
- 18 go back to Mr. Bisha. At one point in your
- 19 testimony, you indicated that there were some
- 20 administrative costs that you would also be saving
- 21 if the variance were granted. Were those
- 22 administrative costs specifically set forth in your
- 23 testimony? I can find --
- MR. BISHA: No, I don't believe we quantified

- 1 them. We just qualitatively discussed the fact that
- 2 separating two different types of coal, buying,
- 3 transporting, managing two different types of coal
- 4 does lead to additional administrative costs.
- 5 HEARING OFFICER JACKSON: Are you able to give
- 6 a quantitative?
- 7 MR. BISHA: I'm not sure if we can or not
- 8 today.
- 9 MR. PLANCK: In terms of dollars?
- 10 HEARING OFFICER JACKSON: Yes.
- 11 MR. PLANCK: No, I really don't -- I'd be
- 12 hesitant to -- we had never broken it out that way.
- 13 HEARING OFFICER JACKSON: Okay.
- MR. PLANCK: We know that they exist because we
- 15 know we have to go to special effort, take special,
- 16 extra time, what have you, to do it so we know the
- 17 cost exists. We just never attempted to put an
- 18 actual number to it.
- 19 HEARING OFFICER JACKSON: Okay. And then I'm
- 20 not sure if it's explained anywhere -- and this is
- 21 just to clarify for the Board -- what is a kilowatt
- 22 hour? Can you explain that?
- MR. BISHA: The kilowatt is essentially 1,000
- 24 watts of electricity, and you would expend that over

- 1 one hour's time. That's how much energy you would
- 2 use over a period of time.
- 3 HEARING OFFICER JACKSON: Then one more. This
- 4 was in -- let's see -- Mr. Shrock's testimony. You
- 5 referred to Screen Three.
- 6 MR. SHROCK: Yes.
- 7 HEARING OFFICER JACKSON: Is that an acronym
- 8 for something?
- 9 MR. SHROCK: That's the name of the screening
- 10 model. It's a simplistic model that runs assumed
- 11 meteorological conditions that cover a range of what
- 12 you would probably find anywhere. And it -- you can
- 13 give it a -- it will find the maximum point
- 14 downwind, the maximum impact point for you. It's a
- 15 typical tool that you use before you get into the
- 16 refined air dispersion models.
- 17 HEARING OFFICER JACKSON: Okay. So that's a
- 18 standard?
- 19 MR. SHROCK: Yeah, it is. It's in the U.S.
- 20 E.P.A. modeling guidance and referred to as a
- 21 guideline model.
- 22 HEARING OFFICER JACKSON: Okay. Those were all
- 23 the follow-up questions I had then.
- 24 Does CILCO have any other witnesses or anything

- 1 else to present at this time?
- 2 MR. FALETTO: No. That concludes our witness
- 3 testimony. I don't think we have anything else to
- 4 clarify.
- 5 Any other witnesses want to clarify anything?
- 6 HEARING OFFICER JACKSON: Okay.
- 7 MR. BISHA: I guess I had one afterthought. I
- 8 think Rachel had asked how many companies were
- 9 subject to the acid rain, and I initially thought
- 10 100. I think it's probably more like in the order
- 11 of 300, not that that's significant.
- 12 MS. DOCTORS: Okay. Thank you.
- 13 HEARING OFFICER JACKSON: Thank you. All
- 14 right. Why don't we go off the record for a
- 15 second.
- 16 (A discussion was held off the record.)
- 17 HEARING OFFICER JACKSON: We were just off
- 18 the record briefly, and there was a short discussion
- 19 between Petitioner and the Agency regarding the
- 20 compliance plan. And I believe CILCO would like to
- 21 make a clarification in that regard.
- 22 Mr. Faletto?
- 23 MR. FALETTO: The clarification is in how
- 24 the --

- 1 MS. JAGIELLA: It's not in the
- 2 letter.
- 3 MR. FALETTO: -- emission limit is -- it's not
- 4 in that letter. Yes, it's actually a clarification
- 5 as to the compliance plan and some conditions that
- 6 were recommended by the Agency. It does appear in
- 7 Bob's -- is that your testimony?
- 8 MR. BISHA: Yeah.
- 9 MR. FALETTO: -- testimony of Robert Bisha, and
- 10 it is the -- the average SO2 emissions for all three
- 11 boilers as a group shall not exceed 34,613 pounds
- 12 per hour on a 24-hour average basis computed daily.
- 13 That's the clarification. And clarification is that
- 14 CILCO would agree to that or has --
- 15 MS. DOCTORS: Yes, correct.
- 16 MR. FALETTO: -- previously agreed to that
- 17 condition of the variance.
- 18 HEARING OFFICER JACKSON: Where is that in
- 19 Mr. Bisha's testimony?
- 20 MR. FALETTO: That's what I'm trying to
- 21 find.
- MS. DOCTORS: It's on page twelve of our
- 23 recommendation, if that's helpful.
- 24 MR. FALETTO: No, it's actually -- it's in the

- 1 Agency's recommendation for a recommendation to the
- 2 Board to approve the variance which was filed --
- 3 well, it's in the record -- February 4th. Maybe it
- 4 isn't in your testimony. I may have misspoke. It
- 5 may not be in Bob's testimony.
- 6 MR. BISHA: Yeah, on page seven, at the top, I
- 7 stated, compliance with the applicable 34,613 pounds
- 8 per hour limit will be computed on a daily basis
- 9 from the average emission rates on that date. I
- 10 think the clarification on that would be computed
- 11 daily.
- 12 HEARING OFFICER JACKSON: Okay.
- 13 MS. DOCTORS: Thank you.
- 14 HEARING OFFICER JACKSON: Just so we're
- 15 perfectly clear, the compliance plan, the conditions
- 16 that are included in the Agency recommendation,
- 17 that's something that CILCO is agreeing to, each of
- 18 those conditions?
- 19 MS. JAGIELLA: Yes. Yes.
- 20 HEARING OFFICER JACKSON: Okay. I think that
- 21 will be clear for the Board. Thank you.
- Now we'll proceed with the Agency case.
- 23 Ms. Doctors.
- MS. DOCTORS: I have a very short opening.

- 1 First, I would like to introduce the people I have
- 2 with me. I have Robert Kaleel, who's Manager of our
- 3 Modeling Section in our Air Quality Planning
- 4 Division, or section, I guess. It Bureau of Air.
- 5 We've got divisions, too. We also have with us Matt
- 6 Will, who works in the Modeling section, and Wayne
- 7 Kahila, who's our Field Inspector for this
- 8 facility.
- 9 Today Rob will be testifying, as he worked
- 10 closely with CILCO on helping them to develop
- 11 appropriate modeling strategy and reviewed the air
- 12 quality and supervised -- helped review and
- 13 supervise the preparation of the Agency's
- 14 recommendation in this case.
- 15 The company is requesting a variance from
- 16 Section 214.141, the 1.8 lb/MM Btu for boiler number
- 17 two. And based on the modeling and showing no air
- 18 quality -- or minimal air quality impact, the
- 19 regulatory uncertainty, the cost savings to the
- 20 company, the Agency is recommending the granting of
- 21 this variance based on the compliance plan as it's
- 22 been clarified in CILCO's letter and the Agency's
- 23 recommendation. The letter is attached to the
- 24 recommendation; it's dated January 1st -- I mean

- 1 January 26, 1999. But the recommendation for the
- 2 compliance -- the compliance plan -- I'm really
- 3 making this confusing -- is actually, in fact, in
- 4 the Agency's recommendation and summarized in
- 5 Petitioner's Exhibit -- is it G? G. Exhibit G.
- 6 MR. FALETTO: Correct.
- 7 MS. DOCTORS: -- with the clarification that we
- 8 had about the daily basis computed for example the
- 9 24-hour.
- 10 So with that, I would like -- I'm ready for Rob
- 11 Kaleel to testify.
- 12 HEARING OFFICER JACKSON: Okay. Please call
- 13 your first witness.
- 14 (Whereupon, the witness was duly sworn by the
- 15 court reporter.)
- MS. DOCTORS: And can we mark this as
- 17 Exhibit K, his -- a copy of his --
- 18 HEARING OFFICER JACKSON: Actually, why don't
- 19 we do Respondent's Exhibit 1 if you want.
- 20 MS. DOCTORS: Okay. Respondent's Exhibit 1.
- 21 HEARING OFFICER JACKSON: Is this the
- 22 original?
- MS. DOCTORS: I've got multiple copies, so I
- 24 don't know what the original is.

- 1 HEARING OFFICER JACKSON: Okay. The witness
- 2 has been sworn in, so you may begin.
- 3 MR. ROBERT J. KALEEL: Okay. My name is Robert
- 4 Kaleel. I'm the Manager of the Air Quality Modeling
- 5 Unit in the Division of Air Pollution Control,
- 6 Bureau of Air, at the Illinois Environmental
- 7 Protection Agency, or just Agency. I have been
- 8 employed by the Agency for eighteen years in the
- 9 areas of air quality modeling, planning, and
- 10 regulatory development. I've also worked for
- 11 private consulting companies in the fields of air
- 12 pollution modeling and permitting.
- 13 I have a Bachelor of Science degree in
- 14 meteorology from Northern Illinois University.
- 15 In my current position at the Agency, I am
- 16 responsible for overseeing the development of
- 17 dispersion modeling analyses to support various
- 18 regulatory proposals, including the underlying
- 19 sulfur dioxide regulations affected by this variance
- 20 petition.
- 21 For the matter before us today, I have
- 22 supervised the Agency's review of the technical
- 23 information provided by the Central Illinois Light
- 24 Company, or CILCO, in support of this variance

- 1 petition, including the air quality modeling and
- 2 cost impact analyses. The purpose of my testimony
- 3 today is to explain the basis for the Agency's
- 4 recommendation in support of this variance request.
- 5 CILCO has applied for a variance to modify the
- 6 current air operating permit for its Edwards
- 7 station, which is located near Pekin, to allow
- 8 greater operational flexibility. This facility is
- 9 equipped with three coal-fired electrical-generating
- 10 units. Sulfur dioxide, or SO2, emissions from units
- 11 one and three are currently limited to 6.6 lb/MM
- 12 British thermal units, or pounds per MM Btu of heat
- 13 input, while the SO2 emissions from unit two are
- 14 limited to 1.8 lb/MM Btu. These limits are
- 15 contained in 35 Illinois Administrative Code,
- 16 Section 214.141 and Section 214.561 respectively.
- 17 Thus, unit two is restricted to burning low sulfur
- 18 coal, while units one and three are allowed to burn
- 19 coal with a higher sulfur content.
- 20 Furthermore, the Edwards plant is also subject
- 21 to a facility-wide SO2 emission limit of 34,613
- 22 pounds per hour. CILCO will continue to comply with
- 23 this current plant-wide emission limit. CILCO has
- 24 submitted an air quality analysis that demonstrates

- 1 that the air quality in the Peoria region will not
- 2 be adversely affected if this petition is granted.
- 3 The proposed change in operations does not involve
- 4 an increase in emissions or constitute a major
- 5 modification and is not subject to new source
- 6 review.
- 7 To insure that the proposed change would not
- 8 affect air quality, the Agency requested that CILCO
- 9 prepare an analysis to evaluate these changes
- 10 relative to the National Ambient Air Quality
- 11 Standards, or N.A.A.Q.S., for SO2. The N.A.A.Q.S.
- 12 for SO2 were established to protect the health and
- 13 welfare of all citizens. There are actually three
- 14 such standards for SO2 which are designed to provide
- 15 protection from both long- and short-term
- 16 exposures. The short-term limits are 365 and 1300
- 17 micrograms per cubic meter for 24-hour and 3-hour
- 18 averaging times respectively. The short-term limits
- 19 can be exceeded once per year at any given location
- 20 without violating this standard. The long-term
- 21 limit, which is expressed as an annual average, is
- 22 80 micrograms per cubic meter. The annual limit can
- 23 never be exceeded.
- 24 CILCO employed QST Environmental of

- 1 Gainesville, Florida, to perform the air quality
- 2 analysis. The air quality analysis entitled Air
- 3 Quality Demonstration in Support of a Variance to
- 4 Burn Higher Sulfur Coal in Unit Two of the Edwards
- 5 Station was submitted in December 1998 as part of
- 6 the petition for variance. The Agency has reviewed
- 7 all the modeling analyses provided by CILCO and has
- 8 determined that the study adequately demonstrates
- 9 that the SO2 emission changes requested by CILCO
- 10 will not cause or contribute to violations of the
- 11 national and state air quality standards.
- 12 QST Environmental used a state and federally
- 13 approved regulatory air quality simulation model to
- 14 address the impacts from the facility. All modeling
- 15 inputs utilized in the study were based on Agency
- 16 and U.S. E.P.A. recommendations, including the use
- 17 of five continuous years of local meteorological
- 18 data recorded by the National Weather Service at the
- 19 Peoria airport. The study incorporated emissions
- 20 from the Edwards station and other industrial
- 21 facilities in the area based on data provided by the
- 22 Agency.
- 23 Impacts from upwind background sources were
- 24 also accounted for based on the most recent ambient

- 1 monitoring data collected by the Agency at its
- 2 monitoring station in Pekin. The modeling analysis
- 3 shows that under certain meteorological conditions,
- 4 the proposed emission changes at the Edwards station
- 5 could -- can potentially cause short-term impacts
- 6 that the Agency considers to be significant. For
- 7 example, the change in emission at Edwards is shown
- 8 by the study to potentially cause a net increase of
- 9 ground level 3-hour average SO2 concentrations as
- 10 high as 93 micrograms per cubic meter.
- However, this impact, when added to the impact
- 12 of all other sources in the area, result in a total
- 13 concentration of 376 micrograms per cubic meter
- 14 which is well below the 3-hour standard of 1300
- 15 micrograms per cubic meter. Thus, the air quality
- 16 standard is still protected even during potential
- 17 worst case conditions. It is the Agency's
- 18 conclusion that the air quality demonstration
- 19 provided by CILCO in support of this variance
- 20 request is adequate to demonstrate that the air
- 21 quality standards for SO2 will not be exceeded as a
- 22 result of the proposed emission changes at the
- 23 Edwards station.
- In consideration of a variance, the Board is

- 1 required by Section 35(a) of the act to determine
- 2 whether a petitioner would suffer an arbitrary and
- 3 unreasonable hardship if required to comply with the
- 4 Board's regulation. The Edwards station is
- 5 currently complying with the applicable SO2 rules
- 6 through the purchase of low sulfur coal. CILCO
- 7 could also comply by installing a scrubber on unit
- 8 two at the Edwards station. A scrubber would
- 9 require a capital investment on the order of
- 10 40 million dollars or more and have an estimated
- 11 annualized cost of \$350 per ton of SO2 removed over
- 12 its operating life. However, CILCO has shown that
- 13 continued compliance will be an unreasonable
- 14 hardship. Its in-state supplier of low sulfur coal
- 15 does not expect to be able to continue supplying low
- 16 sulfur coal in sufficient quantities beyond the
- 17 current calendar year. According to CILCO, the
- 18 increased cost of purchasing out-of-state low sulfur
- 19 coal is between 4 and 10 million dollars per year
- 20 based on spot market prices. Low sulfur coal is
- 21 more expensive than mid to high sulfur coal, and the
- 22 price of low sulfur coal is expected to rise when
- 23 the Acid Rain, Phase Two Program becomes effective
- 24 since there will be more sources vying for a limited

- 1 supply. The mid and high sulfur coals are still
- 2 available from in-state suppliers.
- 3 CILCO is still evaluating the best means for
- 4 complying with the requirements of the Acid Rain
- 5 Program, Phase Two, which becomes effective by the
- 6 year 2000. CILCO has not yet determined whether it
- 7 will be more economical to switch coal suppliers,
- 8 purchase allowances, or install and operate a
- 9 scrubber. Even if it is more economical to operate
- 10 a scrubber as a long-term compliance strategy, it
- 11 will require several years to design, finance, and
- 12 install.
- 13 It is important to consider that the Acid Rain
- 14 Program will result in substantial reductions of SO2
- 15 emissions from the Edwards station beginning in the
- 16 year 2000. It should be noted that although the
- 17 Agency agrees that there is a significant potential
- 18 hardship in requiring CILCO to continue to comply,
- 19 it believes that CILCO may have overestimated the
- 20 savings by only using spot market prices. The
- 21 Agency believes the savings from grant of this
- 22 variance to be more on the order of 1.6 to 4 million
- 23 dollars, which is still a substantial savings. The
- 24 Agency's estimates were based upon data from the

- 1 U.S. Department of Energy's quarterly energy report
- 2 which averages the historical spot market price of
- 3 coal with that purchased via contract.
- 4 CILCO anticipates -- and the Agency agrees --
- 5 that the future cost of low sulfur coal may rise due
- 6 to the expected increase in demand for low sulfur
- 7 coal as a result of the Acid Rain Program. CILCO
- 8 has requested the opportunity to evaluate this cost
- 9 against the availability and cost of allowances and
- 10 the cost of installing a scrubber. At the Agency's
- 11 request, CILCO has reduced its request to limit the
- 12 term of the variance from five years to two years
- 13 unless it elects to pursue more permanent relief in
- 14 the form of a site-specific rule than three and a
- 15 half years. The Agency, therefore, agrees that
- 16 while the cost of compliance is uncertain, the
- 17 estimates indicate that the hardship is arbitrary
- 18 and unreasonable in light of modeling demonstrating
- 19 minimal air quality impact and the fact that there
- 20 have been no violations of the SO2 N.A.A.Q.S. in the
- 21 Peoria area in more than twenty years.
- This concludes my testimony.
- 23 HEARING OFFICER JACKSON: Thank you,
- 24 Mr. Kaleel. Any cross-examination?

- 1 MR. FALETTO: We don't have any questions for
- 2 the witness.
- 3 HEARING OFFICER JACKSON: Okay. Very good. I
- 4 do have a couple of questions of my own. First of
- 5 all, looking at the Agency recommendation on page
- 6 five, paragraph fourteen, the second sentence
- 7 reads: "It will either have to limit its SO2
- 8 emissions through fuel selection," and then it looks
- 9 like there's a word missing. What word should be in
- 10 there?
- 11 MS. DOCTORS: Oh, my goodness. I don't know.
- 12 HEARING OFFICER JACKSON: Is it "to," limit its
- 13 fuel selection to?
- 14 MS. DOCTORS: Yes.
- 15 HEARING OFFICER JACKSON: Okay. Thank you.
- 16 Next question. And this is regarding the avoided
- 17 fuel cost estimates that CILCO is propounding that
- 18 and that the Agency believes may be somewhat
- 19 exaggerated.
- 20 MR. KALEEL: Uh-huh.
- 21 HEARING OFFICER JACKSON: Is there any way for
- 22 the parties to agree on what the actual avoided fuel
- 23 cost savings will be?
- 24 MR. KALEEL: I think --

- 1 MR. PLANCK: In looking at the source that they
- 2 were using, I mean, it's a perfectly valid source.
- 3 But the Department of Energy, what they do is they
- 4 -- if you take a region, like Indiana, let's say,
- 5 they give you the published prices for spot, and
- 6 then they give you the published prices for
- 7 contract.
- 8 What they don't tell you in there is that
- 9 included in either one of those categories they are
- 10 combining or averaging high sulfur coal, mid sulfur
- 11 coal, and low sulfur coal. So the average that
- 12 you're seeing in there is an average over many types
- 13 of coals over -- with a wide variety of pricing. So
- 14 that's why our numbers won't agree with their
- 15 numbers because we were looking specifically at high
- 16 sulfur coal only from those regions and based on our
- 17 knowledge of the coal prices in those areas.
- 18 HEARING OFFICER JACKSON: You mean low sulfur
- 19 coal?
- 20 MR. PLANCK: Excuse me, low sulfur, yes.
- 21 HEARING OFFICER JACKSON: Okay. Then my
- 22 question for Mr. Kaleel then, do you agree with
- 23 CILCO's interpretation of those estimates?
- MR. KALEEL: I think I agree with that. I

- 1 think I should point out that, you know, the Agency
- 2 has to rely on published figures. Our issue was
- 3 relying -- CILCO had relied strictly on the spot
- 4 market price; and our understanding has been -- and
- 5 there's been some testimony to the contrary, but our
- 6 understanding has been that companies that enter
- 7 into a contractual arrangement can oftentimes
- 8 realize cost savings. And because those contracts
- 9 typically are confidential, the Agency has to rely
- 10 on published information. That's what we did.
- But we don't totally dispute the numbers that
- 12 CILCO provided. We used the methodology that we
- 13 used because it was readily available to you.
- 14 HEARING OFFICER JACKSON: Okay. The Agency's
- 15 position would then be that the -- instead of just
- 16 the one figure that CILCO is presenting, there may
- 17 be more of a range --
- 18 MR. KALEEL: Right.
- 19 HEARING OFFICER JACKSON: -- of cost savings?
- 20 MR. KALEEL: Yes.
- 21 HEARING OFFICER JACKSON: Okay. But you don't
- 22 dispute the fact that the price savings or the cost
- 23 savings may, in fact, be 4 million dollars?
- MR. KALEEL: We don't dispute that, and we

- 1 agree that those are substantial cost savings.
- 2 HEARING OFFICER JACKSON: Okay. This was an
- 3 issue that we discussed in one of our pre-hearing
- 4 conference calls regarding the SIP revision?
- 5 MS. DOCTORS: Yes.
- 6 HEARING OFFICER JACKSON: The Agency had
- 7 believed that a SIP revision would be required. And
- 8 initially, in CILCO's petition, there was a
- 9 statement that a SIP revision would not be needed.
- 10 It's my understanding that the parties have
- 11 discussed this, and that CILCO believes that if, in
- 12 fact, a SIP revision is needed, all the information
- 13 necessary for that has been included in the
- 14 petition.
- 15 My question for the Agency is, do you agree
- 16 that all the necessary information is in this
- 17 petition if a SIP revision is, in fact, necessary?
- 18 MS. DOCTORS: We have all -- the company has
- 19 provided all the information, plus the Board
- 20 opinion. We need the Board opinion and the
- 21 transcript and the public hearing notices. It has
- 22 been provided for us to do a SIP revision, and we --
- 23 I'm willing to explain on the record why we believe
- 24 a SIP revision is necessary if you would like,

- 1 but --
- 2 HEARING OFFICER JACKSON: It would probably be
- 3 helpful for the Board to hear the Agency's position
- 4 on that.
- 5 MS. DOCTORS: Right. Let me see how I
- 6 explained it before. But right now, this area is
- 7 under a maintenance plan, that they have attained
- 8 the standard. And they're under a federal -- we've
- 9 got a federally enforceable maintenance plan, and
- 10 one of the provisions of the maintenance plan is
- 11 that we will continue to enforce the current
- 12 regulation.
- 13 Given that we're -- we would not be enforcing
- 14 the current regulation because we've agreed do a
- 15 variance, we need to, in effect, amend that
- 16 maintenance plan through a SIP revision. I think
- 17 that's the simplest way there is to explain it.
- And also, if we didn't amend the SIP revision,
- 19 the company potentially is subject to enforcement by
- 20 U.S. E.P.A. of the 2.141 limit of 1.8 lb/MM Btu.
- 21 That's not fair, given that we've agreed that this
- 22 is okay to do.
- 23 HEARING OFFICER JACKSON: You believe right now
- 24 you have all the information that you need to do

- 1 that revision?
- 2 MS. DOCTORS: Yes.
- 3 HEARING OFFICER JACKSON: Okay.
- 4 MR. FALETTO: Probably to clarify it, all the
- 5 information, not just in the petition, but in the
- 6 record for the variance that would provide that
- 7 information.
- 8 MS. DOCTORS: The whole record.
- 9 MR. FALETTO: I say the Board's -- the whole
- 10 record, because I think you asked whether it was all
- 11 in the petition.
- 12 HEARING OFFICER JACKSON: I did.
- MR. FALETTO: I think it would be the record as
- 14 well as the Board's opinion.
- 15 HEARING OFFICER JACKSON: Okay. Very good.
- MR. FALETTO: Could we go off the record?
- 17 HEARING OFFICER JACKSON: Certainly.
- 18 (A discussion was held off the record.)
- 19 HEARING OFFICER JACKSON: After a brief
- 20 discussion off the record, we're back on, and I just
- 21 have a couple of more very short questions to
- 22 clarify of the Agency witness.
- 23 During Mr. Bisha's testimony, I believe, he
- 24 indicated that if the variance is granted or -- the

- 1 proposal for the variance would be exempt from the
- 2 N.S.P.S. requirements. Do you agree with that?
- 3 MR. KALEEL: We do agree with that.
- 4 HEARING OFFICER JACKSON: Okay. He also
- 5 mentioned that it would be exempt from the federal
- 6 P.S.D. requirements. Does the Agency agree with
- 7 that?
- 8 MR. KALEEL: We also agree; there's not a
- 9 significant emissions increase as a result of this.
- 10 We agree with that.
- 11 HEARING OFFICER JACKSON: Okay. Then same
- 12 thing for the NESHAP requirements?
- 13 MR. KALEEL: Yes, we agree with their position
- 14 on that.
- 15 HEARING OFFICER JACKSON: Okay. Finally, then,
- 16 Mr. Bisha indicated that the proposal, if granted,
- 17 is not inconsistent with the obligations -- CILCO's
- 18 obligations under the Acid Rain Program. And does
- 19 the Agency agree with that statement?
- 20 MR. KALEEL: I'm not sure I followed your
- 21 question. I'm sorry.
- 22 HEARING OFFICER JACKSON: Okay.
- 23 MS. DOCTORS: Yes, the Agency agrees that what
- 24 they proposed to do is not inconsistent with Acid

- 1 Rain because they're committed to being --
- 2 MR. FALETTO: Right.
- 3 MR. KALEEL: Okay.
- 4 MS. DOCTORS: -- in compliance. And I would
- 5 like to clarify. The NESHAP, right now there is no
- 6 NESHAP that particularly applies to this. We're
- 7 expecting some NESHAPs to come out in the future
- 8 that may affect certain boilers; and then at that
- 9 time, they would have to do what was federally
- 10 required to come into compliance. So this variance
- 11 wouldn't affect a future regulation in that area.
- 12 HEARING OFFICER JACKSON: Okay. All right.
- 13 Very good. Those were the only questions I had.
- Do we have anything else? I believe the Agency
- 15 had some written testimony from another witness that
- 16 is not present today?
- 17 MS. DOCTORS: Yes. Mr. Troy Poorman is sick,
- 18 and I would like to have his testimony -- his short
- 19 testimony is being admitted simply to show that we
- 20 reviewed our permits, we -- for their CAAPP
- 21 application and their Acid Rain application, and
- 22 they have, indeed, submitted the proper applications
- 23 and obtained the proper permits from the Agency. So
- 24 as part of our review, we did review the permits.

- 1 HEARING OFFICER JACKSON: Okay. And the Board
- 2 rules require that if written testimony is being
- 3 admitted at hearing, the witness is actually present
- 4 for cross-examination. The witness is not present.
- 5 Does CILCO have any objection on the record to
- 6 the introduction of this written testimony?
- 7 MS. JAGIELLA: No.
- 8 MR. FALETTO: We have no objection.
- 9 HEARING OFFICER JACKSON: Okay. What I would
- 10 ask, just so we can make sure all of our "T"s are
- 11 crossed and our "I"s are dotted, is that the Agency
- 12 file an affidavit from Mr. Poorman indicating that
- 13 this is -- that this is his testimony since he's not
- 14 here to be sworn in, in person. And if you could do
- 15 that by the end of this week, that would be
- 16 acceptable. And we'll mark this as Respondent's
- 17 Exhibit Number 2.
- 18 Are these the only exhibits that the Agency
- 19 will be introducing?
- 20 MS. DOCTORS: Yes.
- 21 HEARING OFFICER JACKSON: Would you like to
- 22 move to introduce them into the record at this
- 23 time?
- 24 MS. DOCTORS: Yes.

- 1 HEARING OFFICER JACKSON: Any objection from
- 2 CILCO?
- 3 MR. FALETTO: No objections.
- 4 HEARING OFFICER JACKSON: Okay. Respondent's
- 5 Exhibits 1 and 2 are admitted into the record.
- 6 Anything else at this time? Closing
- 7 statements? Any other witnesses? Rebuttal from
- 8 CILCO?
- 9 MR. FALETTO: We'll waive any closing argument.
- 10 MS. DOCTORS: We also waive.
- 11 HEARING OFFICER JACKSON: Okay. And then on
- 12 the record, I do want to reiterate that because of
- 13 the decision deadline in this case, the parties have
- 14 agreed previously to waive any post-hearing briefs.
- 15 Is that still agreeable to everyone?
- 16 MS. DOCTORS: Correct.
- 17 MS. JAGIELLA: Yes.
- 18 HEARING OFFICER JACKSON: Okay. I also want to
- 19 note then that there were no members of the public
- 20 that joined us at any time during the proceedings
- 21 this morning. If any members of the public wish to
- 22 submit written comments to the Board, they must be
- 23 submitted by the end of this week, which is March
- 24 12th -- Friday, March 12th, five p.m. to the Board's

1 office in Chicago.
2 All right. On the record, then, I also am
3 required to make a statement as to the credibility
4 of witnesses testifying today. Based on my legal
5 judgment and experience, I have found that all of
6 the witnesses are credible, and credibility should
7 not be an issue for the Board to consider in
8 rendering an opinion on this variance petition.
9 Anything else?
MS. DOCTORS: Nothing from the Agency.
HEARING OFFICER JACKSON: Okay. We're
12 concluded. It is 12:30, March 9th. Thank you all.
(Proceedings concluded.)
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3 STATE OF ILLINOIS: : SS
4 COUNTY OF PEORIA :
5 I, JENNIFER E. JOHNSON, Certified Shorthand Reporter, Registered Merit Reporter, in 6 and for the County of Tazewell, State of Illinois, do hereby certify that the foregoing transcript of 7 proceedings is true and correct to the best of my knowledge and belief; 8  That I am not related to any of the
9 parties hereto by blood or marriage, nor shall I benefit by the outcome of this matter financially or
<ul><li>10 otherwise.</li><li>11</li></ul>
12
JENNIFER E. JOHNSON  Certified Shorthand Reporter
Registered Merit Reporter  Notary Public, State of Illinois at Large
15
My Commission expires April 18, 2001. (License #084-003039)
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