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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In re: Intent to Issue PSD Permit
City of Tallahassee
Purdom Generating Station

PUBLIC MEETING
Crawfordville Elementary School
Crawfordville, Florida
October 30, 1997
7:00 p.m.

Tape transcribed by:
CLARA C. ROTRUCK
Court Reporter

ORIGINAL

P R O C E E D I N G S

1
2 MR. RHODES: There are some cards, little blue
3 slips, and I'd ask if you would fill one of those out
4 and hand it to the lady right at the back.

5 I see a number of folks coming in, so I'm going
6 to wait just a minute until most of them get in.

7 I especially would like to thank Jim Dugger,
8 principal of Crawfordville Elementary School, and his
9 staff for providing the facilities tonight, and also
10 Alan Harvey and the Crawfordville Volunteer Fire
11 Department for helping us with the chairs and the
12 tables and getting us all set up.

13 This public meeting that is here tonight is being
14 requested by the Wakulla County Board of County
15 Commissioners pursuant to Chapter 403.508, section
16 (8), Florida Statutes, and before I get into that, let
17 me introduce myself. I'm Howard Rhodes. I'm the
18 director of the Air Resource Management Division of
19 the Department of Environmental Protection.

20 The purpose of the meeting here tonight is to
21 take public comment on air issues as they relate to
22 the prevention of significant degradation, which is
23 otherwise known as PSD, permit. That permit occurs
24 after a decision is made by the Cabinet on site
25 certification.

1 This discussion tonight is on a City of
2 Tallahassee construction of Unit 8, a 250 megawatt
3 natural gas fire combustion turbine and heat recovery
4 steam generator at the Purdom generating station in
5 St. Marks.

6 Now, if there are discussion items beyond air
7 quality issues, those will be covered at the site
8 certification hearing which is going to be held
9 November 18th at St. Marks.

10 Now, that covers a plethora of sins. It covers
11 water, siting, land use, and a number of things like
12 that, whereas the meeting here tonight is strictly an
13 air quality type meeting.

14 Tonight the Department is going to receive both
15 oral and written comments. At the door we had the
16 comment cards that were on blue paper. If you do want
17 to speak, please fill one of those out and the lady at
18 the back, Kim Tober, will hand that to me, and I'll
19 recognize you.

20 At the conclusion of the Department's
21 presentation today, we will then have comments that
22 come from the public, and then we will consider those
23 comments whenever the permit finally comes up for
24 issue. That determination will not be made until a
25 determination, affirmative determination is made by

1 the Cabinet.

2 Now, what I'd like to do is I'd like to introduce
3 the Department personnel who will be giving the
4 presentations tonight.

5 Chip Collette is the Department's attorney.
6 Chip? And he's going to talk about certification
7 under the Florida Power Plant Siting Act, and he's
8 going to explain a little bit about permitting and
9 certification from a legal point of view. He's the
10 Department's attorney for siting of power plants and
11 the provisions for public interaction in this
12 process.

13 I think first of all I'm going to recognize
14 Chip. He's going to kind of go through that process,
15 and then what we'll do is go through some of the
16 technical presentations and then I will be taking some
17 comments.

18 Chip?

19 MR. COLLETTE: Thank you, Howard.

20 Maybe I ought to talk into this anyway. If it's
21 too loud -- I've been accused of being too loud.

22 In where a power plant is being built or, as in
23 this case, adding generation, generating capacity,
24 it's required to have a permit to operate, and that's
25 called certification. You can go through individual

1 certification or you can go through a certification
2 process.

3 The certification proceeding, itself, will start
4 on November 18th, and at 7:00 p.m. on the evening of
5 November 18th in fact we'll be in St. Marks at the
6 Armory, I believe is where the certification hearing
7 is. We will have a public comment portion of the
8 certification hearing, and at that public comment
9 portion, at that public comment portion, most any
10 comment with respect to concerns for or against the
11 plant or the additional generating power can be
12 received.

13 What this process is here tonight, while we in
14 the state can permit or as you in the county can
15 permit, there are federal permits under the Clean
16 Water and Clean Air Act. The Clean Water Act is not
17 involved with the Purdom project; the Clean Air Act
18 is. The federal government has to be satisfied that
19 what's coming out of the stacks is not going to cause
20 significant deterioration of the clean air that we
21 enjoy in this part of Florida. We have great air up
22 here.

23 And that federal permit process, why we're all
24 here from the Department is that federal permit
25 process, and we're in the public portion of that, is

1 the federal government has delegated to the state of
2 Florida -- good evening -- has delegated to the state
3 of Florida the power to administer that federal
4 program, but the state, itself, in the certification
5 process, cannot say, no, you don't need a federal
6 permit. The feds get to say whatever they want; we
7 just happen to be able to run their permitting
8 program.

9 So we're here tonight to hear about the air
10 quality and air quality issues. However, any comment
11 you want to make will be noted. If it relates to air
12 quality, certainly our staff will take them back and
13 -- staff will take them back and incorporate them into
14 their final comments for considerations with respect
15 to permit. The same thing will happen at the
16 certification proceeding, the public hearing, which is
17 much farther. The certification considers everything.
18 The certification considers flood possibility,
19 hurricane possibility, water issues, land issues, air
20 issues, it considers these things as well, and those
21 comments -- standing at the back of the crowd, if
22 you'd raise your hand, is Hamilton, is Buck Oven, who
23 is director of the Office of Siting Certification, and
24 he and I will be at that certification hearing
25 starting on November 18th on behalf of the Department,

1 and I doubt if we'll see any of our air people there,
2 because principally this process has been looking at
3 the air issues. They may, but I doubt it, so I just
4 want to welcome you.

5 The process is built and the law is built to
6 really allow these public hearings, both in the
7 federal area and in the state, so that there is input.

8 The purpose of the law, and there are a lot of
9 stupid laws and I can tell you that as a lawyer, to be
10 honest with you -- I wish I'd have gotten out of my
11 tie before this. I was born and raised in a small
12 country town -- is -- there are a lot of hearings and
13 a lot of public hearings go into it, and that's
14 something I'd agree with, because I think that
15 citizens and people need to have input and need to
16 have a say, and with that, Howard, is there anything
17 else you think I can add to this? I'll be here to
18 help you.

19 MR. RHODES: Thank you, Chip.

20 Our next presentation, and we're going to try to
21 keep these fairly short, are going to be technical in
22 nature. Hopefully what we'll be able to do is give
23 you a real quick overview as what's being proposed,
24 and that way you'll have some insight into what we're
25 looking at.

1 The City of Tallahassee has prepared a number of
2 charts all around in back, and perhaps a number of you
3 have had a chance to look at those already, but with
4 that I'm going to introduce Al Linero, who is the
5 administrator of Use Source Review Section, who is in
6 charge of this particular type of permit, and he's
7 been reviewing this proposed permit for some time
8 now.

9 Al?

10 MR. LINERO: Thank you, thank you very much.

11 The City of Tallahassee submitted an application
12 to construct a 250 megawatt bi-cycle electrical power
13 unit at the Sam L. Purdom power plant in St. Marks,
14 Wakulla County. The location is about four-tenths of
15 a mile northeast of the St. Marks Wilderness Area.

16 The main unit is a General Electric MS 7231 FA
17 gas fired combustion turbine, which directly generates
18 160 megawatts of electricity.

19 A separate heat recovery steam generator will use
20 the waste exhaust heat and the gas turbine to make
21 steam. The steam will be used to generate an
22 additional 90 megawatts of electricity in the steam
23 turbine generator.

24 The project includes a new 200-foot stack and
25 cooling tower. Existing conventional steam units

1 known as 5 and 6 will be shut down. The key air
2 emissions will consist of nitrogen oxides, sulfur
3 dioxides, particulate matter and carbon monoxide. Air
4 pollution control will be accomplished through dry low
5 NOx combustion burners which will use clean natural
6 gas and low sulfur diesel oil as a backup.

7 When we shut down the units 5 and 6, the
8 allowable emissions will be substantially below the
9 previous permitted air emissions for the entire
10 facility.

11 The City has also requested a cap on emissions,
12 so that the actual sulfur dioxide and nitrogen oxide
13 emissions will be no more than the combined total over
14 the last two years. This is despite a significant
15 increase in power generation. The details of the
16 emission limits and control technology will be
17 discussed by our next two speakers.

18 The Department of Environmental Protection is the
19 permitting authority for the air construction permit
20 under Chapter 403 of the Florida Statutes, Chapter
21 62-4, 62-10 and 62-12 of the Florida Administrative
22 Code; and our delegation of authority for the heat
23 unit and prevention of significant deterioration of
24 air quality under 40 CFR 52.21U.

25 MR. COLLETTE: I've got all of that written

1 down.

2 MR. LINERO: Yes. Okay.

3 This permitting review was conducted concurrently
4 with the site certification review under the Power
5 Plant Siting Act. However, a final action on this
6 permit application will not occur until after the
7 Governor and Cabinet has considered the entire
8 project.

9 The DEP Bureau of Air Regulation in Tallahassee
10 received a four-volume site certification application
11 from the City on March 17 of this year. I saw a copy
12 of it back there. We distributed the air permitting
13 portion to the EPA Region 4 in Atlanta, the Department
14 of Interior's Fish and Wildlife Service Air Quality
15 Branch in Denver, our DEP Northeast District Office in
16 Pensacola.

17 The City also copied and invited comments from
18 the USDA Forest Service and the Refuge manager at St.
19 Marks.

20 The technical evaluation and preliminary
21 determination as well as a draft air permit are
22 complete, were completed and sent to the applicant on
23 July 1st, along with the Department's intent to issue.

24 We have copies back there which you're free to
25 take with you.

1 We provided copies of our conclusions to the
2 previously mentioned agencies. We also made copies
3 available for public inspection at our offices in
4 Tallahassee and Pensacola.

5 The Department's Notice of Intent to Issue was
6 published by the City in the Tallahassee Democrat on
7 August 7th of this year, provided a 30-day period for
8 anyone to submit comments under the Department's
9 proposed action or to request this public meeting.

10 It also provided a 14-day period for anyone whose
11 substantial interests were affected by this project to
12 file a petition for an administrative hearing.

13 We have not yet received comments in response to
14 the public notice, except for the request by Wakulla
15 County to hold this public meeting.

16 We noticed this public meeting on September 25th
17 and October 23rd in the Wakulla News, and on September
18 30th and October 28th in the Tallahassee Democrat.

19 The City also noticed the open house twice in
20 each newspaper. The open house is the activity taking
21 place behind the easels.

22 Copies again of the intent to issue are
23 available. If we run out, we'll be happy to make you
24 copies and send them to you if you'll give us your
25 address.

1 The application and the entire file will be
2 available for public review and copying in our office
3 in Tallahassee, and we'll accept additional comments
4 today until next Friday, November 7, 1997.

5 I will be accepting comments and considering them
6 specifically relating to the air emissions and
7 control. Any comments that are submitted here and
8 over the next week, those comments as well as the
9 recommendations of the administrative law judge in a
10 separate site certification proceeding and, of course,
11 the decision of the Governor and Cabinet will be
12 reviewed when issuing a final PSD permitting decision.

13 What I have here left over, this one is a
14 handout. You submit comments here, or you can send
15 them to me, Al Linero, administrator of the New Source
16 Review Section, the Bureau of Air Regulation, 2600
17 Blair Stone Road in Tallahassee. I have left my phone
18 number there, my FAX number, my Internet address and a
19 handy-dandy list here of agency contacts which include
20 the Air Permitting professional engineer, Marty
21 Costello, the meteorologist and modeling expert, Cleve
22 Holladay, compliance personnel as well as the legal
23 contact.

24 So, you know, take a copy, if you wish to make
25 additional comments if you don't make them tonight,

1 and if you mail them or get in touch with me, I'm sure
2 we'll consider them.

3 Thank you very much.

4 MR. RHODES: Thank you.

5 In the interests of time I'm going to go ahead
6 and introduce our next two speakers. The first will
7 be Marty Costello, who's going to go over the issue of
8 best available control technology. Any type of
9 facility that's built today has to have the best
10 control technology available on that facility before
11 we can permit it. He's basically been in charge of
12 that responsibility.

13 Secondly, Cleve Holladay will be giving a
14 summarization of the air quality, the impact of the
15 facility on the air adjacent to the plant.

16 With that, Marty?

17 MR. COSTELLO: I don't have a speaker in my hand,
18 okay.

19 MR. RHODES: Here's one.

20 MR. COSTELLO: I can do that. Is that better?
21 Okay.

22 My name is Martin Costello. I work for the
23 Bureau of Air Regulation. I was the engineer of
24 record on this project. I evaluated the best
25 available control technology for this project.

1 Al Linero talked about the equipment that they're
2 going to install, the gas-powered combustion turbine,
3 and it produces the bulk of the power, 160 megawatts,
4 and then the exhaust gases drive a steam generator
5 that generates an additional 90 megawatts. There's
6 no additional combustion, it's just using the waste
7 heat from the combustion turbine. This kind of unit
8 looks a lot like a jet engine on an airplane.

9 A VOICE: A little bigger, isn't it?

10 MR. COSTELLO: Yes, a little bigger, and a little
11 bit heavier, it won't fly, but it's the most efficient
12 way to generate megawatts that's commercially
13 available, and it's a pretty large unit for a
14 combustion turbine. There's only one class bigger
15 than what's going to be installed here.

16 The technology to control air emissions is dry,
17 low NOx burners which burn natural gas. This is an
18 approach that can give emissions of -- nitrogen oxide
19 emissions, very low. When they're powered with fuel
20 oil, their emissions are a little bit higher and
21 they're using water injection to control nitrogen
22 oxides.

23 The primary fuel is natural gas. It's about half
24 the cost of fuel oil, so there's -- when they can fire
25 gas, and I think that's most of the time, they're

1 going to be firing gas. It's cheaper.

2 Good combustion process will minimize other
3 emissions, products of incomplete combustion like
4 carbon monoxide, and then sulfur dioxide will be
5 minimized by firing low sulfur fuels, natural gas and
6 low sulfur diesel. That would also minimize
7 particulate emissions, which are a function of sulfur
8 content in the fuel.

9 These are the emission limits that are in the
10 permit currently, 12 p.p.m., and they're going to have
11 continuous emission monitors on that. That's the
12 lowest emission limit of any permitted power plant in
13 the state. There's only one other one with a number
14 that low, and the rest are higher than that.

15 Carbon monoxide, CO, is permitted at 25 p.p.m.,
16 and that's the worst case. Typically at full load
17 they'll will be less than half of that, so it's a very
18 low-emitting unit for COs.

19 Visible emissions, 10 percent opacity. You may
20 not be familiar with that term, but basically, you
21 won't be able to tell it's running at that low level
22 of opacity.

23 And then the other pollutants, sulfur dioxide and
24 particulate matter, are going to be minimized by
25 firing just premium fuels that have very little sulfur

1 in them.

2 If anybody has any questions along the way about
3 the equipment or the limits, feel free.

4 A VOICE: Let me ask about the opacity. How is
5 that measured, on a one meter scale with a light that
6 determines --

7 MR. COSTELLO: Yes. They're not going to have an
8 opacity monitor like you're describing, it's not
9 required. Department representatives are certified to
10 read opacity. You can actually look at a stack and,
11 if you're certified, if you've gone through the
12 training, you can make a determination of what the
13 opacity of the stack is. That training is pretty
14 extensive. Every six months you have to get an update
15 and you actually go and look at stacks, if they have a
16 generator of smoke, they calculate or eyeball every
17 six months, but there's no need for an opacity monitor
18 on this type of a unit that's only firing premium
19 fuels, which is not much smoke. Like I say, you won't
20 be able to tell it's running by looking at the stack.

21 Are there any other questions on the emission
22 limits?

23 Okay.

24 Those emission limits and the technology that
25 they're using to control the emissions constitutes

1 best available control technology. There's two
2 additional things the City has requested and we put
3 them in their permit, although they're not required.
4 They requested an emissions cap of annual emissions of
5 nitrogen oxide and sulfur dioxides to prevent any
6 increases in these emissions, and that's a pretty
7 tough thing to do when the previous emissions were
8 based on a power plant that was only putting out 100
9 megawatts, and with the new unit it's going to be
10 about 300 megawatts, yet they're not going to increase
11 emissions of these important pollutants, and part of
12 the way they're doing that is they're shutting down
13 two older boilers that currently run.

14 And that's all I had. If anyone has any
15 additional questions, you can grill me.

16 A VOICE: Is the increase in megawatts from 50 to
17 250 or some other number? The documents say 50 to
18 250, you're saying 320. Which is it?

19 MR. COSTELLO: I'm talking about the entire
20 facility currently puts out, what is it, 112
21 megawatts, is that right? And after the new unit is
22 installed, it will be about 300 or just over that, so
23 it's about tripling the amount of electrical output,
24 yet emissions won't change, they won't increase.

25 Any other questions?

1 Okay.

2 MR. HOLLADAY: I'm Cleve Holladay and I'm the air
3 modeler for the Air Resources Management Division in
4 the Permitting Section.

5 Air quality dispersion modeling was done for all
6 pollutants that were emitted -- that are expected to
7 be emitted by this project, and I will -- what goes
8 into this modeling, it's computer modeling, it's
9 meteorological input, stack parameters like emission
10 rates, stack heights; and based on these modeling
11 runs, we try to estimate the maximum impacts predicted
12 not only for this project but all sources located
13 within 150 kilometers of the project, so I'm going to
14 summarize the results of the key pollutants, and I'll
15 start with sulfur dioxide.

16 We have three different standards. We've got the
17 ambient air quality standard which protects public
18 health and welfare, and then the Class II and Class I
19 increments which protect clean air and -- the Class II
20 would protect the clean air within the vicinity of the
21 facility, except in this case the St. Marks National
22 Wildlife Refuge is extremely close, less than a mile
23 away, so the more stringent increments from the Class
24 I area apply. This is a sensitive area, so this
25 project would have to meet those.

1 As you can see, all the numbers are well below
2 the standards of increments, and actually this, these
3 numbers here include all of the sources within 30 to
4 50 miles.

5 The Purdom project, itself, is practically, is
6 less than two percent in each case here, so it's a
7 very small amount.

8 This is the PM impacts. Again, the PM numbers of
9 the project are much, much less than these numbers.
10 They include all sources.

11 Okay, the blue, the blue represents the all
12 sources impact and the yellow is the standards.

13 These are the nitrogen dioxide impacts. Again,
14 these numbers are well below the standards and
15 increments.

16 And then carbon monoxide and lead do not have
17 increments, they have standards only, and most of the
18 numbers here, the 8153 and the 5307 have to do with
19 mobile sources, just monitoring values, and again, the
20 project's impact is very small.

21 That concludes my presentation.

22 A VOICE: Mobile service sources, do you mean
23 (INAUDIBLE)?

24 MR. HOLLADAY: Yes. Yes.

25 MR. RHODES: Just for those of you that may not

1 know, the M is particulate matter, little small
2 particles, and those are the general criteria which
3 would measure some of the air quality that may be
4 coming out of some of the stacks.

5 Tonight I would like to recognize any elected
6 officials. Commissioner Stewart, glad to have you
7 here, glad you could make it out. Are there other
8 elected officials here?

9 A VOICE: (INAUDIBLE).

10 MR. RHODES: Commissioner Long, we're glad you
11 could come out tonight. Thank you very much.

12 A VOICE: The mayor, Chuck Shields of St. Marks
13 is here.

14 MR. RHODES: Mayor Shields, of course. That goes
15 back several years, but I was serving in a different
16 capacity and the mayor was trying to get a wastewater
17 plant in St. Marks and we spent many hours together.
18 It's good to see you again.

19 I only have three people who have requested to
20 speak tonight. If there's any others, please fill out
21 a little blue slip in the back.

22 The first speaker I would recognize is
23 Commissioner Stewart.

24 COMMISSIONER STEWART: I didn't ask to speak.
25 I'm just here collecting some facts.

1 MR. RHODES: Would you like to make any comments,
2 Commissioner?

3 Mayor Shields?

4 MAYOR SHIELDS: I'd just like to offer our
5 support, since the City of St. Marks will be the
6 really closest neighbor and have to look at all the,
7 the air pollutions and the standards of what's
8 emissible -- or permissible are so much the
9 (INAUDIBLE) we feel like the air quality here we have
10 now with the generating plant the way it is, we feel
11 like the new plant won't increase or decrease any
12 pollution.

13 MR. RHODES: Thank you very much, Mayor.

14 And Mr. Ed Mills?

15 MR. MILLS: Is it okay to ask questions?

16 MR. RHODES: Oh, please do.

17 MR. MILLS: My name is Edward Mills, IV. I'm
18 with the Wakulla County Planning Department, I'm
19 planning director for the county. I guess you know
20 we're opposed to the plant, but you know how rumors
21 are. The rumor that we were going to stuff a mullet
22 in the mouth of anybody that was in favor of the plant
23 is completely unfounded. We'd never do that with
24 mullet, never.

25 A VOICE: We had one down at Spring Creek just a

1 little while ago. It was real good.

2 MR. MILLS: Let me jump into the front end.
3 Under the summary, I understand that the last line
4 here, you're saying that with this new generating
5 capacity that there was not going to be any
6 significant increase in the emissions of air
7 pollution, but yet in the back we're describing this
8 as a significant contributor of air pollution. I'm
9 just unfamiliar with how we jump from that it isn't to
10 where it is. As I see it, there's about a 500 percent
11 increase. Apparently that's not significant. I don't
12 know, I'm asking the question, if anybody can help me
13 with that.

14 MR. LINERO: Okay. Well, significant,
15 significant in one context. It's significant in that
16 we would take notice in that we would have to model a
17 particular pollutant. These are the obvious
18 pollutants, that's the meaning of "significant," the
19 first meaning.

20 The second one is simply from a legal point of
21 view, within the context of something called
22 prevention of significant deterioration, and that's,
23 that's a, that's a very specific amount of pollution,
24 and "significant" means something very different
25 there. It means typically numbers like one-fourth of

1 what the ambient air quality limits are.

2 So we have two contexts, significant in that I'm
3 thinking of controlling sulfur dioxide, nitrogen
4 oxide, carbon monoxide, particulate matter, okay.
5 Significant in the second context is a 25 percent of
6 the standard of (INAUDIBLE), roughly speaking.

7 A VOICE: What you're saying, Al, you just got
8 ahold of the word significant and changed its
9 meaning?

10 MR. LINERO: And some other words.

11 MR. RHODES: Let me make sure if I can
12 reinterpret your question because I didn't know
13 whether you got the answer you were looking for.

14 You indicated that there was a 500 percent
15 increase in something?

16 MR. MILLS: Just taking a round shot at it, I was
17 trying to add up the percentages, I realized some of
18 them are in parts per million per day, per week, per
19 year, per month, annually. Some go back to it
20 monthly. I got lost, maybe, maybe that's just me, but
21 it looks like that there's actually an increase in
22 most of these things, and further back in the book, it
23 identifies the plant as a major or a significant
24 polluting -- pollution-generating facility.

25 MR. RHODES: Let me, I think I can address the

1 latter.

2 If a source is above a certain limit,
3 irrespective of anything, how clean it is, it's
4 determined to be significant in terms of the size of
5 the source, so that's how you can determine
6 significant.

7 Now, on the other question that is there, I was
8 under the impression that we're not talking about
9 those changes, other than what the existing source
10 was. Is that correct?

11 MR. COSTELLO: I think you have to look at what
12 pollutants you're talking about. There are, I think,
13 two pollutants that are projected to increase slightly
14 above the current plant's emissions. That's carbon
15 monoxide and particulate matter.

16 MR. MILLS: Sulfur dioxide, too, or --

17 MR. LINERO: No. Like I mentioned before, the
18 City has requested a (INAUDIBLE) cap on emissions of
19 what I would call the major pollutants, sulfur dioxide
20 and nitrogen oxide, so they won't go up at all from
21 the description in the permit that I have here.

22 MR. MILLS: Down in Section 1.2, it quotes that,
23 "The plant was built in 1952 but it has operated
24 infrequently in recent years." Are we basing that
25 determination on the fact that the plant hasn't been

1 running or what it's permitted to generate?

2 MR. LINERO: We based the limit from they cannot
3 recede on emissions that they actually put out, I
4 think it's two years.

5 MR. MILLS: I was just trying to figure out if
6 the comparison was to what was, what was actually
7 permitted to be dumped into the air and what is
8 actually being dumped in the air on a -- let's say an
9 annual basis now with this thing running infrequently,
10 or are -- are we comparing apples to apples or apples
11 to oranges?

12 MR. LINERO: I think it's apples to apples.
13 We're comparing what the actual emission cap is with
14 what they will be after the new unit is installed, so
15 they're not going to increase NOx or SO2.

16 MR. RHODES: Yes?

17 A VOICE: Sir, if I may add, one of the things
18 that they're going to do, for example, on sulfur
19 dioxide, the present limit is about 9,000 tons per
20 year, and in the past two years, they've emitted about
21 80 tons per year because they've been running these
22 units so infrequently and using cleaner fuels than
23 they're allowed to. What they're committing to is
24 that in the future they will not even be allowed to go
25 up above 80 tons per year, so the permitted emissions

1 will come way down and their actual emissions will
2 stay about the same on SO2 and on nitrogen oxides.

3 MR. HOLLADAY: I've got a slide that shows this,
4 basically. The blue is zero, it's the current
5 allowables, and the red represents the historical
6 actual, which is the last couple of years, and then
7 the future allowable here on the NOx will be capped at
8 467, and on SO2 at 80, so there's no increase.

9 MR. RHODES: Pull it up a little bit and make
10 sure everybody can see you.

11 MR. HOLLADAY: Okay, up this way?

12 A VOICE: Yes.

13 MR. HOLLADAY: The other way?

14 A VOICE: All right.

15 MR. HOLLADAY: Can y'all see that?

16 A VOICE: Okay.

17 MR. MILLS: Still on that first page, I see
18 where we have some, some hydrocarbons, fugitive dust
19 and what have you that's going to be coming from
20 vehicles and heavy equipment. We're going to use
21 various methods to make sure that the emissions or the
22 dust are held down. Maybe I missed it, but I didn't
23 see where or how that, that spraying, whatever we're
24 going to be using to hold that dust down, is going to
25 be separated from the stormwater such that the

1 stormwater that's discharged into the river doesn't
2 carry those same pollutants back to it. Is that, do
3 you feel comfortable with the way that has been
4 addressed in the submittals so far?

5 MR. LINERO: Those emissions -- I assume you're
6 talking about during construction?

7 MR. MILLS: Yes.

8 MR. LINERO: Truck traffic and so on?

9 MR. MILLS: What have you.

10 MR. LINERO: I think will be relatively minor,
11 it's just temporary. They will be doing it, I don't
12 know how long, a year or so during construction.

13 (INAUDIBLE) dust whether they spray the roads down,
14 whether that makes into the river, it's probably
15 insignificant.

16 MR. MILLS: On the top of the second page where
17 you have, "Increased hours of operation due to lower
18 fuel costs will not significantly increase the total
19 emissions," I was wondering if you could explain that
20 sentence to me, how the cost is going to get to the
21 emissions standards.

22 *castillo* MR. LINERO: Power plants are dispatched based on
23 -- this is a little bit out of my area of expertise,
24 if I have one -- but as I understand it, power plants
25 are dispatched based on the cost to generate a

1 megawatt of electrical power, and if you can generate
2 megawatts more cheaply than another plant that might
3 have a more expensive fuel, that you will be able to
4 sell your power until the demand becomes sufficient
5 to, for that more expensive plant to come on line, so
6 you'll, you'll sell all the power you can generate at
7 that point, because you're cheaper.

8 MR. MILLS: Yes, sir.

9 MR. LINERO: Yes, the City knows this a lot
10 better than I do. They --

11 MR. MILLS: So the cost of the fuel has a
12 relationship to the emissions of air pollutants?

13 MR. LINERO: Just because it has --

14 MR. MILLS: Because higher priced fuel has lower
15 sulfur, is that --

16 MR. LINERO: Actually, the highest priced fuel is
17 No. 2 fuel oil, but it's got higher sulfur than
18 natural gas, so that's not --

19 MR. MILLS: That would seem to contradict that
20 statement, then.

21 MR. LINERO: Well, I think that because you'll
22 use the plant more, it's cheaper to run, and the more
23 you use it the more emissions you generate. Does that
24 make sense?

25 MR. MILLS: No.

1 MR. LINERO: No?

2 MR. MILLS: No.

3 MR. LINERO: That's what happens.

4 A VOICE: Perhaps, Mr. Oven, would you be able to
5 add to this a little bit from the power plant siting
6 certification?

7 MR. OVEN: I'm not sure where you're talking to.
8 Actually, we --

9 MR. MILLS: On the second page of the summary
10 report, at the top of the page, I don't know if you
11 have one handy here, it starts off on the page before
12 saying, "Increased hours of operation due to lower
13 fuel costs will not significantly increase the total
14 emissions of air pollutants." I was wondering how
15 running it longer on lower cost fuels was going to
16 increase the emissions.

17 MR. OVEN: The fuel cost is irrelevant. You're
18 taking out older units that are less efficient,
19 normally less efficient, replacing them with a more
20 highly efficient unit so you can save fuel. You're
21 capping the emissions, you'll operate the unit more,
22 the new unit more often, produce more electricity for
23 the same amount of air pollution that you're emitting
24 now, so you've got a more efficient unit, a clean
25 unit, so you, you're thermally more efficient, you're

1 electrically more efficient, and you're more efficient
2 in the sense that you're getting more hours of
3 electricity, more megawatt hours out for the same or
4 less air pollution.

5 So it's a better deal for the environment, a
6 better deal for the economy.

7 MR. MILLS: I've been reading Buck's reports off
8 and on for probably about the last seven or eight
9 years, and --

10 MR. OVEN: You're actually, you're asking
11 questions from the staff analysis report.

12 MR. MILLS: Yes, sir.

13 MR. OVEN: But these folks didn't write it.

14 MR. MILLS: That was yours?

15 MR. OVEN: Yes.

16 MR. MILLS: I notice in here, this report doesn't
17 seem to track the usual course that you have with your
18 reports. It looks like pieces of it got chopped on.
19 Maybe that was in the printing, or --

20 MR. OVEN: You need to get into Chapter 3 before
21 you get into the (INAUDIBLE) that these people wrote.

22 MR. MILLS: We're sticking just to the air
23 quality stuff tonight, right?

24 MR. OVEN: Right, and like I say, there's a
25 whole section in Chapter 3 of that report that these

1 fellows wrote, the pervasiveness of deterioration, or
2 stuff, that is in that report, and that is what these
3 people are responsible for. You're asking questions
4 that are outside the scope of this hearing.

5 MR. MILLS: Okay. I thought we were dealing with
6 the air quality -- and running through the summary
7 here, it looks like this is leading up to the
8 conclusion that this isn't going to have a major air
9 pollution increase.

10 MR. OVEN: Ed, as a layman, I think I basically
11 understand your question, and I kind of have that
12 question, too, is -- all of you may have heard about
13 retail wheeling which is coming some day soon. The
14 bottom line, for an example, in another part of
15 Florida, FP&L has a series of plants. They run --
16 Florida Power & Light -- they run the plants the most
17 where they have the cheapest fuel. They have the
18 other plants they call peaking plants that they don't
19 run like they run on low sulfur fuel oil which is more
20 expensive, say, than coal or natural gas, they run
21 those when, say, it's 100 degrees outside or it's
22 freezing and everybody is sucking power out of it, and
23 that increases it, so the plants with the lower fuel
24 cost, as natural gas low fuel cost versus -- and it's
25 more efficient, in other words, say, a kilowatt hour

1 might be a penny versus -- I'm just giving you a
2 hypothetical -- versus a kilowatt power being five
3 cents, the power plant, because that savings is also
4 passed on to the customers, and you're going to keep
5 your customers the rate charge passes right on to us
6 when we pay our electric bill.

7 The power companies, including Tallahassee, are
8 going to run the most their plants where their fuel
9 costs are the cheapest, because they can pass on the
10 savings, and oftentimes in that statement you will see
11 when they're running a change in a peak plant, peaking
12 plant which is high load, you know, everybody is
13 drawing electricity --

14 A VOICE: This facility was --

15 A VOICE: Well, you could say --

16 MR. OVEN: Ed, the purpose of this hearing is to
17 discuss the basis of the significant deterioration
18 permit. It's a separate permitting process from the
19 power plant site certification process. Now, there is
20 a parallel between the two, and they can be combined
21 in certain cases.

22 There are certain portions of the PSD permit that
23 occur in that report, but materials and conclusions in
24 the front of the report you're reading from are not
25 from the PSD, are not a part of the (INAUDIBLE)

1 resources management, so although they are valid
2 questions, you're about two weeks premature in asking
3 them.

4 MR. MILLS: Okay.

5 MR. OVEN: The PSD permit is based on will this
6 facility comply with the air pollution -- the ambient
7 air quality standards and the emissions limitations
8 which are placed on the Department and on EPA. It
9 also has to be demonstrated that they're utilizing the
10 best available control technology, which is part of
11 the PSD process, so energy efficiency, things of that
12 nature, would only apply if you were trying to really
13 decide which air pollution control technology would
14 apply to this power plant.

15 There is a process where the Department would
16 have to consider the cost of the air pollution control
17 equipment, the efficiency of the air pollution control
18 equipment and the overall cost as it might impact the
19 project.

20 When we start talking about other factors as far
21 as, let's say, the site certification desirability of
22 the facility, that is beyond the purview of the PSD
23 permit. That's why I said, you're a little ahead of
24 yourself. From a PSD point --

25 (End of tape 1, side 1.)

1 MR. MILLS: -- that report, then, which, reading
2 through the Agency comments, the 2.3 section, as I
3 understand it, DCA has made a recommendation for
4 approval for the project subject to conditions to
5 bring it into compliance with the State Comprehensive
6 Plan.

7 MR. OVEN: That's possible, sir, but that's not a
8 part of the PSD permit.

9 MR. MILLS: Even though it's part of it?

10 MR. OVEN: No.

11 MR. MILLS: No.

12 MR. OVEN: The PSD permit is a separate
13 permitting act than the site certification. It will
14 be granted only after certification is granted. If
15 certification is denied, then the PSD permit goes
16 away.

17 I think you're referring to the Agency analysis?

18 MR. MILLS: Yes, sir.

19 MR. OVEN: That's actually a certification report
20 for the certification process. It's not -- it has air
21 issues contained in it because there has to be
22 coordination with air on the PSD, but that's actually
23 not a PSD report. The notice of intent to issue PSD
24 permit would be what really would be the substance of
25 this proceeding, so the air section in there has the

1 PSD issues because we have to consider air issues in
2 the certification process as well, but that is a
3 certification report rather than a PSD report.

4 MR. MILLS: So, in other words, jump out of that
5 front section, jump back to the air quality impact
6 section?

7 MR. OVEN: That would probably be better,
8 correct.

9 MR. MILLS: There again, under 432 under the
10 facility category, that's the part where I was telling
11 you, the Purdom power plant station is classified as a
12 major air pollution emitting facility. That was,
13 that's how I was drawn back to that other statement.
14 The statement up front says it is not, but yet this
15 one says that it is. Therein was my question, how we
16 made that, that leap.

17 MR. OVEN: I think as Howard tried to indicate,
18 you have different categories of sources, and a source
19 that emits or has the potential for emitting more than
20 a certain tonnage of air pollutants is considered a
21 major source, and therefore is given a particulate
22 permitting scrutiny in review.

23 MR. MILLS: I see.

24 MR. OVEN: It has its own special meaning for
25 that particular area. In this case the Purdom unit is

1 a major air pollution source under the federal
2 definition of air pollution sources.

3 MR. MILLS: And I notice under the rule
4 applicability where it talks about which rules apply
5 to the air pollution and whatever, it states that
6 Wakulla County is an area designated as an attainment
7 area for critical pollutants. Would you explain what
8 that statement means to me?

9 MR. OVEN: Sure. Howard, do you want to --

10 MR. RHODES: I'll start. There's ways of
11 determining whether or not an area meets standards.
12 If an area does not meet standards, it's determined to
13 be non-attainment. Any other area is determined to be
14 an attainment area.

15 We have no non-attainment areas in Florida, so
16 Wakulla County is a part of the massive whole of
17 Florida that is in the attainment category.

18 MR. MILLS: Now, do you gather up credits for
19 attainment, is that --

20 MR. RHODES: No.

21 MR. MILLS: If you have a facility that's real
22 clean and one that's real dirty, do you get air
23 quality --

24 MR. RHODES: No.

25 MR. MILLS: -- attainment?

1 MR. OVEN: Ed, to answer your question a
2 different way, if your attainment -- if air quality in
3 that county is equal to or cleaner than ambient
4 quality standards, Wakulla County, you're cleaner than
5 the ambient air quality standard, based on -- to my
6 knowledge. It has nothing to do with the facility
7 itself; it's what people out here breathe.

8 MR. MILLS: Well, that's where I'm coming from.
9 I have folks telling me that the air isn't clean
10 enough for them now. I was wondering how, when they
11 put in a power plant that generates more, it's going
12 to make that better. It's just a question.

13 Whenever we get back over into the BAC
14 determination, under the general impact analysis on
15 page 16, we're talking about even with the BAC being
16 in place, it will exceed allowable rates? Can you,
17 can you shed a little light on that subject?

18 That's dealing with air quality and that's where
19 I was coming from with the credits routine. I didn't
20 know if there was some increment of air quality that
21 we were using up or if we were using up something
22 that's allocated as an excess in another area, or how
23 we were --

24 MR. OVEN: I'm not sure what your question is
25 totally, now. We're talking -- in Wakulla County

1 where the air quality is cleaner than standard, the
2 prevention of significant deterioration rules and
3 regulations say that you can only degrade that air
4 quality so much. There is a certain increment you're
5 allowed to degrade, you cannot exceed that increment,
6 and that is something that Mr. Holladay and the people
7 in the Bureau of Air Regulation have reviewed and
8 determined that this particular power plant, because
9 of the shutdown of the old sources, the replacement
10 with this new Unit 8, that the air quality impact
11 increment consumption is very little and within the
12 allowable increments. I think they have some charts
13 that illustrate that, and they're not due a credit
14 from anywhere else.

15 MR. MILLS: Okay.

16 MR. OVEN: There are --

17 MR. MILLS: It's an allowable area that you're
18 allowed to get it up to --

19 MR. OVEN: It'll never get, the cleaner the
20 standard, you can never get up to the standard. If
21 you're using something that's called emission credits
22 and this deals with other power plants in other areas
23 that are apart and existing, I -- that doesn't apply
24 here.

25 MR. MILLS: That doesn't apply?

1 MR. OVEN: No.

2 MR. MILLS: Thank you.

3 We were also talking about the oxides and
4 nitrogen and the BACT, best available control
5 technology, is what we're going to be using to scrub
6 these things out, but yet the BACT that we're going to
7 be using on this facility is not the primary, not the
8 top rate, we're going to take a step down from that.
9 In other words, by taking that step down, we're still
10 going to be able to produce clean air, we're not going
11 to dirty it up to the point where we're exceeding that
12 increment?

13 MR. COSTELLO: I think I can answer that. There
14 is a technology for controlling nitrogen oxide
15 emissions that can get you a little bit lower than the
16 dry low NOx burners. There are some trade-offs,
17 though. There are other emissions. You have to
18 inject ammonia, there's some ammonia (INAUDIBLE).
19 There are some trade-offs and there are some big cost
20 differences, and the Department made the determination
21 that dry low NOx burners is best available control
22 technology for this project.

23 MR. OVEN: This is where you get back at the
24 economics. You can put something like the equivalent
25 of a catalytic converter on the unit. It's a very

1 large catalytic converter and you do use ammonia,
2 which means you then have to ship a hazardous
3 substance into the city of St. Marks in order to
4 operate this chemical factory equivalent back in the
5 power plant. It costs a lot to do that, and the cost
6 for the tons of pollutant that we remove by putting it
7 on this that we feel are not warranted in this case;
8 that the dry low NOx burners will achieve an
9 acceptable low level of nitrogen emissions and they
10 are affordable. This is where some economics are
11 looked at by the Bureau of Air Regulation as it
12 applies to the air pollutant control technology.

13 A VOICE: These low NOx burners, you had
14 mentioned earlier that you use some kind of water --
15 what was the term you used, water --

16 MR. COSTELLO: There's water injection when
17 they're firing with fuel oil, basically diesel.

18 A VOICE: What kind of water? Fresh water from
19 the river, or --

20 MR. COSTELLO: Fresh water.

21 A VOICE: Will that still be used if we use this
22 other method? Obviously, it emits lower emissions.

23 MR. COSTELLO: No, no. In fact, it's a small
24 quantity of water. Whenever they have to fire the
25 diesel, the dry low NOx burners are not effective for

1 reducing NOx for that fuel, so they have to the use
2 water injection.

3 A VOICE: When the diesel is working?

4 MR. COSTELLO: When they're firing diesel.

5 A VOICE: But not --

6 MR. COSTELLO: When they fire natural gas, it's
7 dry low NOx burners, it doesn't use any water, it
8 gives much lower emissions.

9 A VOICE: What's the likelihood of having to fire
10 diesel?

11 MR. OVEN: It will happen on certain rare
12 occasions when you have some very cold weather and
13 domestic customers are utilizing natural gas for home
14 heating, things like that. They have first priority,
15 and industrial customers could be bumped off of
16 natural gas. In that case, it's kind of a (INAUDIBLE)
17 decision, in that case they would then switch to oil.

18 A VOICE: But the emissions would go up
19 considerably?

20 MR. OVEN: Emissions will go up slightly, yes,
21 when that happens, but generally you get bumped off
22 from natural gas probably -- maybe two or three, four
23 days in a year's time, if that. I mean, it's -- it's
24 a rare occurrence if it does happen.

25 A VOICE: So the justification, then, for going

1 to the second best technology is, and you're quoting
2 here, "The total levelizing of cost is estimated at
3 1.5 million per year for 20 years resulting in an
4 incremental cost effectiveness of about \$7,225 per ton
5 of nitrous oxide removed. This incremented cost
6 effectiveness value is considered higher than those
7 determined to constitute BACT for other projects in
8 Florida of a similar nature. Therefore, SRC is deemed
9 to be too expensive for this application."

10 What -- you're comparing it to other projects in
11 Florida, and it's, it's been a kickout at a cleaner
12 rate than what the other projects in Florida are, but
13 yet it's going to have some adverse effect to it?

14 MR. COSTELLO: I think I can address that.

15 Power plants similar to this one that
16 have combustion turbines, generally dry low NOx are
17 used, that's the state of the art for this type of
18 power plant. There are no power plants of this nature
19 that have what you're talking about, SCR, selected
20 catalytic reduction.

21 There's two large coal-fired units in Florida
22 that have them. They came on line in the last three
23 years or so.

24 MR. OVEN: Actually there are three.

25 MR. COSTELLO: Three years ago?

1 MR. OVEN: No, no, three plants. Cedar Bay and
2 OUC and (INAUDIBLE).

3 MR. COSTELLO: Cedar Bay is (INAUDIBLE).

4 MR. OVEN: (INAUDIBLE). It's --

5 MR. COSTELLO: What I'm saying is there's no
6 precedent in Florida for firing SCR; in fact, there
7 are some drawbacks in terms of other emissions that
8 you'd want to consider before (INAUDIBLE) technology.
9 We have it in Florida.

10 MR. MILLS: The concern that we're, that all of
11 this is stemming from is, you know, the wind is here
12 in the community generally from the southwest to the
13 northeast, so the plume of steam and whatever it
14 carries with it is going to be traveling across
15 Wakulla County up into Leon and then Jefferson
16 Counties.

17 We're concerned that because, even though this is
18 better than many of the other facilities, we still
19 feel that having no facility there at all for economic
20 reasons and for environmental reasons, seems like it
21 would be a better idea than taking two down that were
22 real bad and putting one up that's just a little bit
23 bad. Why do that at all? Why settle for a second
24 best when -- a majority of that land in between, in
25 Wakulla County, anyway, is owned by the St. Joe Land

1 Development Corporation. Maybe they don't have a
2 problem with that, but just immediately north of this,
3 you have a 200-unit residential subdivision that's
4 just been annexed into the city. You're going to have
5 a bunch of neighbors that it's going to blow right
6 across it. One of the concerns we have is they're
7 come at us, why didn't you say something about all of
8 this back whenever it was going through the siting
9 program, and hence the concern.

10 MR. OVEN: You're really now getting into a
11 siting issue because --

12 MR. MILLS: Right, it's the air pollution that --

13 MR. OVEN: Right.

14 MR. MILLS: -- that concerns us --

15 MR. OVEN: Well, the air pollution happens to be
16 well within the standards, and since it's well within
17 the standards, then the Department would recommend
18 approval of the project.

19 MR. MILLS: We're still concerned that "well
20 within the standards" is going to be adverse to both
21 the environment and the people out in that area, even
22 though it is within the Department's --

23 MR. OVEN: Okay.

24 A VOICE: Could I interject a question?

25 MR. RHODES: Yes, sir.

1 A VOICE: What's the comparison -- what's the
2 cost, then, compared to \$7,225 using SCR, compare that
3 to the cost using the dry NOx removal. Compare the
4 cost with it. What is the cost?

5 A VOICE: (INAUDIBLE).

6 A VOICE: Yes, I would guess it's close to a
7 thousand dollars per ton. I don't know the number
8 offhand, but it's significantly less than \$7,000.

9 A VOICE: A thousand difference or 1,000 tons?

10 A VOICE: The cost is likely less than \$1,000 per
11 ton.

12 MR. OVEN: It's about one-seventh of the cost of
13 the SCR system.

14 A VOICE: But you also mentioned that there may
15 be some other effects from SCR, but you're proposing
16 to use the NOx burner technology and you referenced
17 the G.E. ZON-2.6.

18 A VOICE: Right.

19 A VOICE: Yet, it's not, it's not, it's not been
20 currently demonstrated. How do you know what it's
21 going to do? Aren't you gambling there?

22 A VOICE: You said G.E. has guaranteed an
23 emission rate of less than nine percent parts per
24 million for (INAUDIBLE)

25 A VOICE: Yes.

1 A VOICE: But what happens if that guarantee
2 ain't no good?

3 MR. COSTELLO: The unit that's been chosen for
4 this project is a relatively new model unit. There
5 are two. There's one in Colorado and I think there's
6 one in Texas. Those -- that class of unit
7 specifically puts out about 15 parts per million.
8 They're developing that burner technology. You know,
9 the unit in Colorado, I spoke to G.E. this week about
10 it, this summer they demonstrated that they can get
11 down to nine parts per million, so I have reasonable
12 assurance that by the time they install this unit,
13 you'll meet a 12 parts per million limit.

14 A VOICE: It has to be above that 50 percent load
15 range and all that, how do you predict that?

16 MR. COSTELLO: Well, these type of units
17 particularly aren't operated below a 50 percent level.
18 Usually they run them typically at a full load.

19 MR. MILLS: But the lower it runs the higher the
20 emissions, right? It needs to run the higher --

21 MR. COSTELLO: No. The limit will be met
22 throughout the range of operations, again.

23 MR. MOWREY: It says it will be higher at lower
24 loads, it will be higher at lower loads. That's what
25 your report says, that's your report. "If the energy

1 is based on operation above the 50 percent load rates,
2 then emissions p.p.m. will be higher at loads below
3 this." Now, which is it?

4 MR. MILLS: Our concern was how often would it be
5 running at less than 50 percent so that we have some
6 idea.

7 MR. COSTELLO: Right. Only the City can answer
8 that. We don't restrict how they can operate the unit
9 in terms of what load, but we could give them a limit
10 that they have to meet whenever they're operating it,
11 so the limit as measured by continuous emission load
12 is 12 parts per million, so at whatever load they're
13 at, it's got to be below that.

14 MR. MILLS: Does the Department do that
15 monitoring?

16 MR. COSTELLO: We require installation of the
17 monitors and we require them to report any time
18 emissions exceed the limit.

19 MR. MOWREY: Are those logged somehow? I mean,
20 is there a log reading, or --

21 MR. COSTELLO: Yes. Concentrations --

22 MR. MOWREY: How do you know if this goes out a
23 week. How do you determine whether they go out of
24 parameters? I mean, can a plant operator, maybe that
25 goes a little over and they fix it and nobody ever

1 knows the difference? How do we know that? How many
2 days before you have to report a, something that's out
3 of parameters?

4 MR. COSTELLO: We require quality assurance of
5 the monitor to make sure that it's reading what the
6 actual concentrations are. Simply, dishonest things
7 can be done and we would have to catch them, and it
8 would be a criminal violation, falsifying records or
9 something of that nature.

10 MR. OVEN: Marty, isn't it true that each of
11 these monitors is required to have a recorder attached
12 to it, and that there is a paper product they can be
13 examined?

14 MR. COSTELLO: Yes. They have recorders so it's
15 a written -- printed out. It's also reported
16 electronically, and they use computers to store the
17 data and then they can report the emissions.

18 MR. MOWREY: You're going to measure your p.p.m.
19 based on a 30-day rolling average, which you
20 specifically say excludes any malfunctions or shutdown
21 or start-up time?

22 MR. COSTELLO: Yes, sir.

23 MR. MILLS: Or if the data is --

24 MR. MOWREY: That's the worst time. Why would
25 you exclude that in getting an average?

1 MR. RHODES: Sir, I think this gentleman here has
2 the floor. I'll be glad to recognize you as soon as
3 he's through.

4 MR. MOWREY: I think he yielded, for the record.
5 Certainly, I'll wait. Thank you.

6 MR. COSTELLO: I can answer the question, I
7 think.

8 The unit is designed to produce a certain peak
9 emission below a certain limit. In this case we've
10 set the limit at (INAUDIBLE). It's not designed to
11 meet that limit during transient periods, such as
12 start-up. Really, it's just start-up. Shutdown
13 emissions won't go up. Malfunction means something
14 breaks, so that's -- you can't anticipate that.

15 I will say that if there's some way to prevent a
16 malfunction and they didn't employ that, then it's a
17 violation of our rules. But it -- each time they
18 start up their emissions may exceed 12 p.p.m. It's a
19 provision in our rules.

20 MR. LAWHON: You spoke earlier (INAUDIBLE)
21 emissions. If it gets to the level of (INAUDIBLE),
22 will they shut the plant down at that time?

23 MR. COSTELLO: They will monitor their emissions
24 throughout the year, and if they've mismanaged those
25 emissions, we would certainly have to shut down and --

1 MR. LAWHON: Would that be on a yearly basis or
2 would it be like on a monthly basis or daily basis, or
3 -- I think they're going to run 11 months and then
4 shut down for the last month of the year. Who's going
5 to monitor that? Is it going to be the fox guarding
6 the chicken pen, or what -- I mean, what's the deal
7 here?

8 MR. COLLETTE: I might add, it would be helpful
9 to the court reporter if you'd state your names.

10 MR. LAWHON: My name is Lawhon.

11 MR. MOWREY: And who was the gentleman back there
12 as well?

13 MR. MOWREY: I'm Ron Mowrey.

14 MR. COLLETTE: Oh, Ron, okay, I should have
15 recognized you, Ron. Sorry.

16 MR. MOWREY: That's all right.

17 MR. COSTELLO: Your question was who was going to
18 monitor the (INAUDIBLE)?

19 MR. LAWHON: Well, first, of course, was are they
20 going to shut down when they reach a certain level
21 that they want to cap?

22 A VOICE: They would have to, sir, they would
23 have to -- the way the permit is written --

24 MR. LAWHON: If they want to be nice. Maybe
25 something (INAUDIBLE).

1 A VOICE: They would shut down, and this is a
2 good question, and, you know, we'll take that as a
3 comment, and we'll ask, you know, we'll ask ourselves
4 that question, ask them that question, and include in
5 any provisions that apply in the permit an answer to
6 that question, exactly what, what provisions there are
7 to provide reasonable assurance that it will never
8 exceed that cap, and we'll include that in the final
9 decision.

10 That's an excellent question, but realistically,
11 if they get their cap and it's 467 tons per year of
12 nitrogen oxide, they would have to shut down, and our
13 tools on that are a standard compliance assurance
14 benefits and so forth.

15 MR. COLLETTE: And legally the Department of
16 Environmental Protection has an enforcement section
17 and tools and ability to go into circuit court, and we
18 never have to use them because we get cooperation, but
19 can get an injunction by the judge that says you're
20 not operating because you're out of compliance.

21 But your question raises really a good example of
22 the purpose of this type of hearing. This is
23 something we need to consider, we need to take back
24 and take it into consideration.

25 MR. OVEN: If the unit is determined to violate

1 (INAUDIBLE), they can be fined (INAUDIBLE)
2 violation.

3 MR. MILLS: It won't necessarily stop the output,
4 but they would be fined after the fact?

5 MR. COLLETTE: Well, we, in other situations
6 we've taken dual enforcement actions when we have --
7 violations say in any particular enforcement area, one
8 we've sought injunction to shut it down, but for a
9 certain period of days there have been violations and
10 secondarily imposed administrative fines as well.
11 Usually dual course; we go in, you've already been in
12 violation two or three or four days in a week, and by
13 the way, Mr. Judge, Circuit Judge, shut them down,
14 we're not going to let them run any more, so you won't
15 -- so you get a double.

16 MR. MILLS: The concern maybe from these folks
17 was our emergency management director tells us there's
18 been a couple of spills at the site that were cleaned
19 up after the fact and nobody heard about it for a
20 while afterwards. We're concerned about that same
21 scenario coming down again, especially with air
22 quality, something that blows in the breeze. It's a
23 toughie.

24 A VOICE: I want to just make one comment. This
25 really concerns me, and (INAUDIBLE) about cost

1 effectiveness. I know that doesn't have anything to
2 do with air quality, but if the City of Tallahassee
3 wants to be a good neighbor to Wakulla County, coming
4 down here against most of our wishes to do this thing,
5 I would think you'd spend a little bit of extra money
6 to make sure it's very (INAUDIBLE) just for the
7 standards.

8 MR. MILLS: It's kind of in our front yard. I
9 realize it might be in their back yard, but that's our
10 front yard. That coastal area is what attracts the
11 entire world (INAUDIBLE).

12 MR. COLLETTE: I'm not sure legally how we can
13 ask for that. It's just simply beyond the scope,
14 constitutionally of what I can address. I understand
15 your concern.

16 MR. MOWREY: I think he's saying that since they
17 are in a certain environment, they would like to see
18 it be as clean as possible to minimize adverse impact
19 to air quality.

20 MR. LINERO: Well, the best example I've seen and
21 I'm not, you know, I don't work for the City, I'm
22 (INAUDIBLE), the best example that I've seen is the
23 willingness to forever forego that permitted emission
24 limit of 9,000 tons per year of SO2, and forever take
25 a limit of 80 tons a year on SO2. I would share with

1 you that some of the projects that I've been working
2 on recently, we're talking plants that are talking of
3 increasing emissions 10,000, 20,000 tons a year and
4 some of these plants emit 150,000 tons a year.

5 This kind of brings it into the real world.
6 We're talking about cap abating, and they voluntarily
7 entered into that cap. If we had done our job and
8 issued a best available control technology like we
9 did, we probably could only have limited them to, to
10 some number higher, certainly higher than 80, but they
11 voluntarily came in with that cap, and that seemed a
12 pretty good sign to us that they did more than what we
13 required of them. You know, only they can make that
14 attempt to convince you of the same, and I think
15 they're (INAUDIBLE) here.

16 A VOICE: And that's what I'm saying, we'll
17 (INAUDIBLE) a little more in the (INAUDIBLE).

18 MR. LINERO: Yes.

19 A VOICE: (INAUDIBLE). We're not benefiting
20 anything from this. We're going to get the acid rain
21 or whatever comes out of this thing. That's about the
22 only benefit we're going to get, so whatever the City
23 of Tallahassee can do, this thing is going to get
24 crammed down our throats one way or the other, so do
25 us a favor and do whatever you can do to help us.

1 MR. OVEN: I think what Mr. Linero was saying,
2 acid rain is a result principally of the sulfur
3 dioxide emissions, and the fact that the City of
4 Tallahassee has agreed to not keep those emissions at
5 or below what they're meeting presently, which is
6 beyond what we could have required on BACT analysis,
7 means that there will not be any increased acid rain.

8 A VOICE: And I understand that, but they said
9 there was another step they could to go make it even
10 better. I'm asking that y'all do that. It will cost
11 you a little more. We really need (INAUDIBLE).

12 MR. LINERO: We will, we'll certainly consider
13 the comment, but I did want to tell you, of course, in
14 making it better, when you talk about this limit of 12
15 parts per million NOx, limiting it to there, what will
16 happen is when we try to make it better and get that
17 down to, say, six parts per million NOx, then we have
18 to add another problem, which is 20 parts per million
19 ammonia, and suddenly you're saying, well, what was
20 the real benefit? We got the NOx down, but now we
21 have an additional pollutant into the air, so there's
22 a point at which, in trying to get, you know, one
23 pollutant down with technology that exists and the
24 chemical process which would require the storage tanks
25 and these chemicals moving in and out, that we thought

1 for environmental reasons as well as energy and
2 economics, that the minuses would have outweighed the
3 pluses on it.

4 We still, you know, the final decision on that
5 has certainly not been made. You know, we consider
6 the comments.

7 MR. OVEN: For example, you put the chemical
8 process off, it's (INAUDIBLE) reduction, like a
9 catalytic converter plus ammonia, you'll be smelling
10 ammonia from time to time in the plant. With the
11 system they plan on now, you won't smell that plant
12 operating ammonia. So, you might, as Al said, you
13 will reduce the nitric oxide to go to the atmosphere,
14 but you're replacing it with ammonia, which you will
15 smell, will notice, and it may bother some people,
16 plus you have a problem of trucks carrying a hazardous
17 material, ammonia, through Wakulla County and into the
18 city of St. Marks.

19 So -- and that's a risk. You know, if somebody
20 gets careless and you have an accident with that truck
21 bringing the ammonia in, then you have a real public
22 health problem.

23 A VOICE: It is not dangerous over (INAUDIBLE)
24 all of the gas (INAUDIBLE).

25 MR. OVEN: I just have one of those (INAUDIBLE)

1 ammonia trucks.

2 A VOICE: (INAUDIBLE).

3 MR. MILLS: Getting back to the cost
4 effectiveness, we're also talking about a carbon
5 monoxide level that's going to be increased, but the
6 statement here that the catalyst may also result in an
7 increase in oxidation of sulfur dioxide, sulfur
8 trioxide, which, combined with the moisture, this is
9 going to crank out a million gallons of steam a day,
10 creates a sulfuric acid mist, but I notice your
11 statement is this impact is not considered
12 significant. We disagree, we think sulfuric acid mist
13 is very significant, no matter how small it is.

14 People in Leon and Franklin and Jefferson County
15 have no idea that this is going to be blowing towards
16 them 24 hours a day.

17 MR. COSTELLO: I can address that question,
18 because I wrote that language. That's if we install
19 the SCR system that we at this point have decided is
20 not justified.

21 MR. MILLS: If you install the SCR you would not
22 have that, right, but you would --

23 MR. RHODES: You would have it.

24 MR. MILLS: You would have it?

25 MR. OVEN: The catalyst oxidizes the sulfur

1 dioxide and the sulfur trioxide. That's one of the
2 down sides of putting on that extra unit, so a
3 catalyst helps convert --

4 MR. MILLS: Carbon dioxide? Carbon monoxide?

5 MR. OVEN: No, it helps convert the sulfur
6 dioxide to sulfur trioxide. You add that to the
7 moisture, you get sulfuric acid mist.

8 MR. MILLS: All right.

9 MR. OVEN: So you put the catalytic system on,
10 not only do you have the ammonia, you also have an
11 acid mist. So that's one of the reasons why we say,
12 don't put that catalyst on there. We don't think it's
13 warranted.

14 MR. COSTELLO: In this case.

15 MR. OVEN: In this case.

16 MR. MILLS: We do.

17 MR. OVEN: You want acid mist?

18 MR. MILLS: No, we don't. What we're trying to
19 say we don't want the carbon monoxide and/or the
20 sulfuric acid mist. Either/or.

21 MR. OVEN: They are two different things, and
22 they're from two different parts of the process.

23 We're saying that if you put the catalytic system
24 on to remove the nitrogen oxides, you're going to
25 increase sulfuric acid mist, okay?

1 Carbon monoxide is a function of a different part
2 of the (INAUDIBLE) process and (INAUDIBLE). The
3 catalytic system has no effect on carbon monoxide.
4 The catalytic system will affect the nitrogen oxide,
5 it will affect the sulfuric acid mist and it will also
6 produce the ammonia, so if you want ammonia and you
7 want sulfuric acid mist, put the catalytic system on.

8 MR. MILLS: So, and maybe I'm wrong, if you take
9 that nitrogen oxide and mix that with water, you don't
10 make any nitric acid mist out of that?

11 MR. OVEN: You might get nitrous. You won't have
12 nitric.

13 MR. MILLS: I note that under the BAC
14 determination rationale that selected catalytic
15 reduction, the SCR we were talking about, was not
16 considered cost-effective for the City of Tallahassee.
17 SCR is an add-on nitrous oxide technology.

18 Can you explain that a little bit better,
19 please?

20 MR. COSTELLO: The dry low NOx burners, they are
21 actually the combusters that burn the fuel, and they
22 burn it in a manner that minimizes the formation of
23 nitrogen oxides. SCR, the catalytic technology, is
24 something you put on the back end in the stack, is a
25 catalyst and we get ammonia at that point. It's

1 something you add on, if it's warranted. In this case
2 we didn't think it was.

3 MR. MILLS: Maybe I'm wrong, this is saying you
4 can use either ammonia or water usage, but that the
5 water usage would increase the gallonage by 136,000
6 gallons per year annually if we were to use water?

7 MR. COSTELLO: When you use an SCR system, you
8 also mix water with the ammonia, so you do increase
9 the water usage.

10 MR. MILLS: Noting also in here that this BAC
11 will also ensure that ambient SO2 impacts on the
12 nearby St. Marks Class I area are minimized to the
13 greatest extent possible, and I don't know which one
14 of y'all could explain that to me, but does the St.
15 Marks Wildlife Refuge have a higher classification
16 than the balance of the county?

17 A VOICE: Yes.

18 A VOICE: Yes, sir.

19 MR. MILLS: So you have to meet these higher
20 standards for the plants and the animals out there,
21 but yet the civilians, that, that goes down for the
22 civilians?

23 MR. LINERO: Yes, sir, that's the federal law and
24 it's actually, it's actually ironically a good thing,
25 because you're near one of those, one of those areas,

1 so consequently, if it was a plant that had any kind
2 of, you know, impact on the populated area, it would
3 have an impact that, at least based on the way the law
4 exists, it would be unacceptable inside the St. Marks
5 part, so, so ironically, in an effort to protect this
6 scenic area, you have a desirable co-effect that the
7 populated areas are even more protected. That's true.

8 MR. MILLS: I'm the county's tree-hugger, I'm
9 concerned about the trees myself. I just wondered how
10 that worked out in the long run. If we hadn't had
11 that there, we wouldn't have to the meet that
12 criteria, if we hadn't had the Wildlife Refuge?

13 MR. LINERO: If you didn't have, if you didn't
14 have the St. Marks Wilderness Area nearby, we could
15 reasonably be talking instead of caps of 467 tons per
16 year, we could be talking of caps of 20,000, 30,000
17 tons per year of NOx, and that's right out of my own
18 experience.

19 MR. MILLS: Your guys in the environmental
20 section would be jumping and screaming about the
21 outstanding Florida waterway, you know, and the
22 seagrass preserve offshore, the whole nine yards on
23 that one, right? You couldn't win.

24 One of the questions I had on the CO2
25 determination that you have on page 25, it's

1 expressing that other pollutants, visible emissions
2 that are going to be limited to 10 percent opacity,
3 you were saying earlier that that's a visual thing,
4 and I was wondering, from where and how far? That's
5 determined from somebody just standing on site,
6 visualizing the stack, seeing what the --

7 MR. COSTELLO: Basically, yes, it's an eyeball
8 (INAUDIBLE). A trained eyeball.

9 MR. MILLS: The nitrous oxide that I'm averaging,
10 then, going back to the question about the 30-day
11 rolling average, I'm still not, I'm not familiar with
12 that 30-day rolling average routine. Would you
13 explain that a little bit to me?

14 MR. LINERO: Yes, I'll give it a try. What it
15 means is that over the period of 30 days -- now, I
16 think I heard that G.E. is going to guarantee this
17 thing something like nine, but let's say
18 realistically, it could mean that their emissions
19 might vary from nine to 15, but it can't spend too
20 much time, too much time significantly above 12, or
21 otherwise they could never get it low enough to
22 average it out to 12, so the limit to 30-day, 30-day
23 rolling average, that's something that's there in the
24 statutes, that they can request a 30-day rolling
25 average. If they had requested --

1 MR. MILLS: Is that lifted from EPA?

2 MR. LINERO: No, it's not lifted.

3 But if we wanted a 24-hour rolling average, the
4 number would probably be higher than 12, you know, it
5 might be 13 or 14 or 15. It's a matter of you put
6 together the standard with the averaging time, but
7 realistically, since they can't get down below nine to
8 speak of, then they're not going to spend much time
9 above 15 and have to make that up.

10 MR. MOWREY: Excuse me, is that 30 days that you
11 pick or is that 30 days, consecutive days?

12 MR. LINERO: 30 -- 30 days rolling. That
13 means --

14 MR. MOWREY: Any 30-day period?

15 MR. LINERO: Day in, day out, 30 days, for the
16 last 30 days what was your average, and those averages
17 are comprised of increments that are probably seconds
18 long.

19 In other words, these aren't, these aren't just
20 samples that are taken by technicians. This is just
21 continuous monitored automatic equipment that's data-
22 logged and so --

23 MR. LAWHON: So we're going to pull their records
24 and --

25 MR. LINERO: You can definitely pull their

1 records, I don't even -- I'm sure they wouldn't even
2 object.

3 MR. MOWREY: Does that exclude (INAUDIBLE) all
4 periods? I think I read in there it excludes those.

5 MR. LINERO: It excludes the --

6 MR. MOWREY: Which are the highest times of
7 emissions.

8 MR. LINERO: Start-ups, shutdowns. We could
9 discuss with them the possibility of including those
10 areas, but then the average, then the number might be
11 more like 13 or 14 instead of 12.

12 MR. LAWHON: That's what I was asking as a
13 citizen, that you would include those light-off
14 periods in those days or 30 days or whatever you call
15 them, rolling days. I mean, that's important. You
16 shut down, light off and break down, I mean, those are
17 days that you're dumping your most contaminants, those
18 are the days you should include, and try to avoid
19 those, that should be included in the picture.

20 MR. LINERO: We'll, you know, we'll take your
21 comment and we'll discuss it with them and we'll do
22 some research and see what the impacts are. In fact,
23 we're doing that at some other power plants, looking
24 at what happens if we bundle, you know, bundle the
25 regular operation with the shutdowns and malfunctions

1 and so forth.

2 MR. LAWHON: Well, they're not going to want to
3 do that. I mean, I wouldn't if I was running it,
4 because I'm more likely to go over my number.

5 MR. LINERO: I believe, realistically speaking, I
6 believe that they're going to do everything possible
7 to keep these units running. They don't want to shut
8 them down, they don't want to start them up, they want
9 to keep them running. That's the only way to run them
10 efficiently.

11 MR. LAWHON: That's the way they make money, we
12 know that.

13 MR. LINERO: And so realistically, I mean, I
14 could expect maybe a, maybe a start-up and shutdown in
15 a month, but we'll ask them those questions before we
16 take action on it, and we'll have an answer for you.

17 MR. MILLS: Lastly, I see that a statement here
18 after the footnotes, after Table 2, on 29, that,
19 "Based on the required analysis the Department has
20 reasonable assurance that the proposed project as
21 described in the report and subject to the conditions
22 of approval proposed herein will not cause or
23 significantly contribute to a violation of any AAQS
24 or PSD increments."

25 Further on, they go into talking about the EPA

1 directed stack height. "In approving this permit, the
2 Department has determined that the application
3 complies with the applicable provisions of the stack
4 height regulations as revised by EPA July 8, 1985,
5 50 FR 2789(2). Portions of that regulation have been
6 remanded by a panel of the U.S. Court of Appeals to
7 the District Court in NRDC versus Thomas, 838 F.2d
8 Edition 1224, DC Circuit, 198. Consequently, this
9 permit may be subject to modification if and when EPA
10 revises that regulation."

11 Can you tell me, just give me a ballpark, what's
12 going to happen with that? Do you have any idea?

13 MR. LINERO: We don't know what is going to
14 happen with it. I can tell you that we're required by
15 EPA to put that language in all PSD permits, whether
16 we understand it or not. We're required to put it
17 into all of those permits and it's a condition of the
18 delegation of this program to the state. It's also a
19 condition of our grant and so forth, but again, you
20 know, realistically, there are elements of that that
21 have to do with, with, you know, not just raising
22 stacks to, to, to dilute pollution and also how you
23 model the -- how the pollution disperses, but that's
24 not a concern in this project that I'm aware of.

25 MR. MILLS: Is there a concern with the height of

1 the stack in this area. There are cypress trees down
2 there that are a hundred foot tall, this would only
3 been two times that height? Is it better to have a
4 higher stack or a lower stack?

5 MR. LINERO: Depending on the application, but
6 200 is a fairly normal size for a power plant stack.
7 I think the highest in Florida, in fact, the highest
8 point in Florida is at the Seminole power plant in
9 Palatka, I think that's pushing 700 feet.

10 MR. OVEN: The stack is about 600.

11 A VOICE: I know there's a big stack and I forget
12 the name of the project now, but it was an Orlando
13 Utilities Commission project out, way out in between
14 Broward and, Brevard County and the city of Orlando.

15 MR. OVEN: Stanton.

16 A VOICE: Stanton, that's it. We flew the stack
17 with a chopper and the chopper pilot was telling us we
18 were at the upper limits that he could run that, I
19 mean, it was way on up there.

20 MR. OVEN: The -- you would like to have a tall
21 stack, but the federal regulations and
22 environmentalists prohibit it being excessively tall.
23 You want a stack that is high enough so that it, the
24 wind blowing over the nearby associated buildings
25 don't cause enough turbulence to bring that stack

1 effluent back to the ground too quick, so they have
2 what they call a good engineering practice stack. I
3 think this is designed in that range, where you want
4 it high enough so you don't get your building
5 turbulence effect on ground level concentrations, so
6 you want to have a stack high enough to meet those
7 criteria, but not excessively high where they can't
8 take credit for it. This is within that range of good
9 engineering practice.

10 MR. MILLS: If I can, one more. We were talking
11 about an air shifting controlling device of some sort
12 on top of the stack, or -- if I could find that one
13 section, we're talking about an air -- let me see, I
14 thought it was like a wind shifting device of some
15 sort to control the emissions. Is that whether the
16 stack is high and low, do you know what I'm talking
17 about?

18 Thank you very much for the opportunity to
19 address you.

20 MR. RHODES: Thank you very much, Mr. Mills.
21 Mr. Mowrey?

22 MR. MOWREY: I can talk from here.

23 Have you measured the effects of the discharge,
24 that is the plume from the plant up into the
25 microenvironment, including CO, NOx, particulate and

1 sulfuric acid? If so, what were your findings?

2 MR. LINERO: Well, we certainly haven't measured
3 it because it's not built yet, but it's been modeled,
4 it's been modeled as extensive reports, the experts
5 that did the work are here, Mr. Foley, who is a
6 consultant to the City, and Mr. Holladay. That would
7 be kind of a difficult question just to answer, but, I
8 mean, we'd like to spend time with you separately and
9 discuss it with you. I think we'd just had to take
10 your comment at this point, but, you know, get in
11 touch with us any time and we'll talk it over with you
12 in detail, and --

13 MR. MOWREY: You referenced other plants for
14 other things you used for comparisons. Have you found
15 comparable plants where you can make any kind of
16 conclusions that you can use as a basis for your
17 recommendations?

18 MR. LINERO: I think we could look at some other
19 plants and, you know, if you'd like, we will.

20 MR. MOWREY: Okay, thank you.

21 Is there indication that, since you're not going
22 to do SCR for the NOx -- excuse me, sulfuric acid,
23 there's not going to be sulfuric acid clouds or rain,
24 but on what I was given today as an update it still
25 shows, on page 29 under the PSD applicability summary,

1 under sulfuric acid mist, an increase, from 3.0 to
2 8.6. I mean, that's, that's almost a 50 percent
3 increase, so can you explain that to us?

4 MR. COSTELLO: Why the increase?

5 MR. MOWREY: Yes. You said there wouldn't be
6 unless you went to SCR, yet -- and we're not, but yet
7 there still is, so I'm just troubled how to --

8 (End of tape 1, side 2.)

9 A VOICE: Give me the chart number, because this
10 means no --

11 A VOICE: Chart number?

12 A VOICE: Yes.

13 A VOICE: Table 2 there.

14 A VOICE: Yes.

15 A VOICE: It says back here --

16 A VOICE: It's just the same as the (INAUDIBLE).

17 A VOICE: I (INAUDIBLE).

18 A VOICE: Is that your chart?

19 MR. COSTELLO: The sulfur in the fuel
20 predominantly forms sulfur dioxide when it's
21 combusted. Some small fraction, a couple of percent
22 of that, will go to sulfur trioxide and that becomes
23 sulfuric acid mist, and it's purely a function of the
24 amount of sulfur that's in the system, so -- from here
25 to the past (INAUDIBLE) where the sulfuric acid mist

1 was three tons per year, it will go up a little bit,
2 but not significantly in terms of PSD. They didn't
3 trigger a rule requirement.

4 MR. MOWREY: Let me just suggest that from three
5 tons to 8.6 tons --

6 MR. COSTELLO: Right.

7 MR. MOWREY: I mean, that's more than twice as
8 much.

9 MR. LINERO: Let me help out, let me help out.

10 Realistically, realistically, there will probably
11 be no change. What they -- perhaps what they have
12 there is a limit. I think what's happening is it's
13 lower, in the lower numbers, in the lower numbers it
14 may have to do, we've talked about so numbers that the
15 method of estimating, the inherent error, the method
16 of estimating may be later in the magnitude of the
17 number that's being estimated, but we'll look into
18 that and we'll reconcile that. I believe it's just,
19 it's just the methods that are being used to
20 estimate. I don't think there is a technical
21 explanation for that. I would expect the emissions to
22 be -- sulfuric acid to be no more after than before,
23 probably about the same.

24 MR. MOWREY: And on that same chart, while we're
25 looking at it, it appears that everything, with the

1 exception of SO2/NOx, do increase. Most
2 dramatically, CO increases by 127 tons a year, as well
3 as the VOC, fluorides, mercury, et cetera. So there
4 are significant increases most -- in every one of
5 those with the exception of the two you've indicated,
6 NOx and CO. Does that trouble you or concern you?

7 A VOICE: Well, they're just relative and it
8 doesn't matter.

9 MR. LINERO: Yes, from an absolute point of view,
10 those increases, those increases are very -- are
11 actually small. They sound like big numbers but
12 they're actually small. Realistically, those, the
13 actual numbers that they will measure will probably be
14 about the same as in the past, maybe lower. What
15 happens is that when you write a permit on certain
16 things, you have to have, you have to have a number
17 that you're certain you won't exceed, and I think
18 that's probably, again, that's probably the estimated
19 maximum compared to perhaps the actual historical
20 emission.

21 But the numbers, you know, we're concerned about
22 all air pollution, but those numbers are actually
23 very, very low, and I'd be happy to share with you
24 some typical numbers of clean facilities that are ten
25 times as high as those.

1 MR. LAWHON: You have to see our concern when
2 all we're hearing is this new modern facility --

3 MR. LINERO: Yes.

4 MR. LAWHON: -- is going to be better for
5 everyone, better for the environment, for the
6 atmosphere, but by the chart that you have given us,
7 it's worse, and yet now you say the chart's not right,
8 so it's a real concern for us.

9 MR. MILLS: With this in the air mixing with the
10 groundwater, this may actually run former Governor
11 Kirk off from stealing the water here because we're
12 going to pollute it with all this --

13 MR. LAWHON: We're already got warnings from the
14 State that, every week from not eating fish for
15 mercury (INAUDIBLE) because of the mercury.

16 MR. COSTELLO: I'd like to say something. You've
17 got to keep in perspective, they're just firing
18 predominantly natural gas at this plant, so these
19 plumes that you've talked about, they don't exist in
20 the field to begin with, to a measurable degree. I
21 mean, you burn a lot of it over --

22 MR. LAWHON: So this chart is not burning natural
23 gas?

24 MR. COSTELLO: I think this reflects burning
25 natural gas and some quantity of fuel oil. I don't

1 recall what it --

2 MR. LAWHON: Why have we got this chart? If this
3 is not what the City of Tallahassee is going to do,
4 why even put this up here? It doesn't make sense.

5 MR. COSTELLO: What it is, it's a conservative
6 estimate of the worst tonnage per year of each of
7 these pollutants that we regulate in the PSD program,
8 if that unit was operated completely, all year round,
9 never shut off. Past actuals are best guesses for a
10 lot of these pollutants. No stack test has been
11 used.

12 MR. LAWHON: Back up just a second. Now, you
13 said if it runs year-round. Now, you said it may only
14 have a shutdown maybe once a month for one day, or --
15 pretty much it's going to run 24 hours a day, 360 days
16 a year, 350 days a year. Is this, this worst case
17 scenario, is that with natural gas?

18 MR. COSTELLO: No equipment can run continuously
19 like that. They will have to, particularly once a
20 year they shut it down for probably a week for an
21 annual outage.

22 MR. OVEN: Marty, how was this chart derived?
23 Was it derived solely on natural gas, solely on --

24 MR. COSTELLO: It was derived --

25 MR. OVEN: -- the oil, or a combination of both?

1 MR. COSTELLO: A combination of both. A small
2 amount of oil, mostly gas.

3 MR. OVEN: And are you saying that the
4 predominant source of mercury and certain things like
5 that will primarily come from the oil and not the gas?

6 MR. COSTELLO: Yes. Yes. And again, these
7 numbers are relatively small.

8 MR. LAWHON: Well, there again, everybody has
9 tried to voice this sulfuric acid mist, I have several
10 problems. If that's true, you know, we don't need
11 that. We don't need that. Even if it's not a
12 significant amount to you, it's more than double what
13 we've got now, whatever that may be. We don't need
14 that.

15 MR. MOWREY: Could I ask one more question?

16 A VOICE: Sure thing.

17 MR. MOWREY: We notice -- it appears from the
18 material that about a million gallons of water a day
19 that evaporates into the atmosphere, an air quality
20 issue.

21 Could you tell us, if you know, approximately how
22 much of that might come from the river as opposed to
23 the wastewater plant? Is it going to be mixed in the
24 cooling tower, and then -- (INAUDIBLE) question, one
25 more part to it -- certainly coming, the effluent from

1 the wastewater system is going to have a chlorine
2 additive, what's the effect of heating chlorine and
3 dispersing it into the air?

4 MR. COSTELLO: I think I can answer that
5 question.

6 The cooling tower will predominantly be fed by
7 river water, and I think it's about 1,000 gallons an
8 hour, is that right?

9 A VOICE: A minute.

10 MR. COSTELLO: 1,000 gallons a minute from the
11 river. About one percent of that flow is going to
12 come from the St. Marks wastewater treatment plant.
13 All of the effluent in that plant will go to this
14 cooling tower, and that will represent about one
15 percent of the total flow going to the cooling tower.

16 MR. MILLS: Except when it's shut down for these
17 maintenance periods?

18 MR. COSTELLO: Yes, I think when it's shut down
19 they have a storage tank on site where they're going
20 to pump the wastewater from St. Marks (INAUDIBLE) and
21 then pump (INAUDIBLE).

22 MR. MOWREY: We had a little difficulty
23 converting gallons per minute to gallons per hour,
24 gallons per day, but we think, the little committee
25 we've met, we think we determined that just under a

1 million gallons a day. You've talked about water
2 you're going to pull from the river to use for
3 cooling, out of which approximately one million
4 gallons will evaporate. It seems like that's
5 increased from approximately .9 million gallons per
6 day to 60 million gallons a day. Is that reasonably
7 accurate? Withdrawn from the river, not returned.

8 MR. COLLETTE: That's almost a certification
9 issue.

10 MR. OVEN: It is a certification issue, really.
11 These air people haven't looked at how much water
12 came from downstream --

13 MR. LINERO: But let's, we'll take the question
14 down and forward it to the --

15 MR. OVEN: Well, it's not a PSD issue.

16 MR. MOWREY: Well, it only was in the event that
17 it -- that water is part of the water going in the air
18 and mixes with the wastewater, it is relevant to the
19 air quality, certainly.

20 A VOICE: And if it --

21 MR. MOWREY: If most of it is river water as
22 opposed to being mixed with wastewater, then we won't
23 worry about it.

24 MR. OVEN: Most of it is river water. Now, I
25 believe that the treated effluent from the City of St.

1 Marks sewage treatment plant is probably going to go
2 into the on-site water treatment system, before it
3 ever gets to the cooling tower.

4 MR. MILLS: Which is the chlorination process.

5 MR. COSTELLO: No, I don't think that's
6 accurate. I think it's treated by the City and then
7 it will be put in --

8 MR. OVEN: I doesn't necessarily go directly to
9 the cooling tower. Maybe that's --

10 MR. COSTELLO: Yes, I asked that (INAUDIBLE).

11 MR. LAWHON: Did you ever give an answer, I
12 didn't understand it if you did, on what effect it
13 has, the chlorine would have in the cooling tower.

14 MR. LINERO: The chlorine would be heated in the
15 water and evaporate then, the heated air, into those
16 plumes floating around.

17 MR. MOWREY: What would the medical effect of
18 that be?

19 MR. COSTELLO: It's a wash, because the City of
20 St. Marks chlorinates the water now and they dump it
21 in the river, and it evaporates eventually, so whether
22 you do it --

23 MR. LAWHON: But it's not being heated and thrown
24 up into the --

25 MR. COSTELLO: Yes, but chlorine is pretty

1 volatile. I mean, like a swimming pool, you have to
2 keep adding chlorine every week -- it doesn't stay in
3 water. It makes its way to the atmosphere, basically.

4 A VOICE: Howard (INAUDIBLE).

5 MR. RHODES: There may be, I don't know. Most
6 plants do --

7 MR. MILLS: Yes, that's what people are asking,
8 because of the smell around pools of chlorine. I
9 mean, are they going to smell like a chlorine cloud up
10 there?

11 MR. RHODES: No.

12 MR. MILLS: It will be that dispersed?

13 MR. RHODES: Well, first of all, the chlorine
14 tends to react with the various organic compounds in
15 the treated sewage effluent to start with. That
16 consumes a lot of it. But because of concerns of
17 chlorinated hydrocarbons getting into our surface
18 waters, in recent years the Department has been
19 requiring sewage treatment systems to dechlorinate
20 before discharge, then it's chemically treated before
21 discharge, so if this is done before it ever comes to
22 the, the Purdom unit, there may be zero if any
23 chlorine to speak of coming over there, so you will
24 not be dealing with a, a free, you should not be
25 dealing with free chlorine radicals coming into the

1 cooling tower.

2 MR. LAWHON: But you don't know if that's true?

3 MR. RHODES: At this point I don't know. I don't
4 know how it's treated, but that's something we could
5 check.

6 MR. COSTELLO: I asked that question this evening
7 and the answer I was given was it's not dechlorinated
8 coming from the wastewater treatment plant
9 (INAUDIBLE).

10 A VOICE: Okay.

11 MR. MOWREY: One more question, just one more.

12 I believe you said that your concern in the
13 report dealing with air quality that we're not dealing
14 in this case with anybody doing any tradeoff or --
15 like you might do in zoning, swap off some density,
16 having to purchase increments of air quality as a
17 tradeoff for emissions which you'd see getting to
18 safe levels. We're looking instead at measuring, and
19 I would assume you're measuring in accordance with the
20 standards in Chapter 62 of the Administrative Code.
21 Those are maximum permissible rates, I would guess.
22 Is that how y'all apply those?

23 MR. LINERO: The increment is based solely upon
24 air -- computer dispersion modeling. It was totally
25 based on that. It's not based -- it's based on actual

1 -- it's based on what, for SO2 and PM, what happened
2 in 1977 is considered a baseline date, so you're
3 taking emissions of 1977, from whatever, all these
4 sources in this area, and it slows them to a certain
5 level, and then any new sources or modifications would
6 be modeled against that baseline and this, the
7 increases in the ground level concentrations cannot be
8 greater than these numbers, but it has -- it doesn't
9 have anything to do with based on buying on things and
10 it's not made, it's based on modeling.

11 MR. MILLS: And this modeling has shown you that
12 this plant has been put out a clear discharging
13 background in 1977?

14 MR. LINERO: Well, what it's showing is -- in
15 some cases, it is showing that, for SO2 and PM, in
16 many cases, it's very low, it's barely above zero.
17 For one reason, they -- the SO2 is being frozen at 80
18 tons a year, whereas it had permitted allowable for
19 much higher, and I'm not sure exactly what the numbers
20 were, but back in 1977 it would have been higher,
21 possibly. I'm not sure what -- but that's where the,
22 why the numbers are extremely low.

23 MR. RHODES: Well, in 1977 the plant was burning,
24 say, two and a half percent sulfur oil. It probably
25 could have been used four, five, and six, seven, you'd

1 be putting out quite a bit of SO2. You shift to
2 natural gas, you would come down a whopping amount,
3 and here you stay with natural gas, you're staying
4 down at that low level. This is why you, you do cap
5 on SO2, it's a tremendous drop from 1977 numbers.

6 By the same token, though, you'd have to look at
7 the impact of Hopkins Unit No. 2, which has been built
8 since '77, (INAUDIBLE) in '77, and that was a source
9 that would be consuming air quality, and that would
10 have been looked at in meteorological situations.

11 MR. LAWHON: Where is that located?

12 MR. RHODES: It's on Getty Road, west of
13 Tallahassee.

14 MR. COLLETTE: About three miles.

15 MR. RHODES: Close to Lake Talquin.

16 A VOICE: -- what source was included in this
17 modeling.

18 MR. RHODES: Yes. I mean, part of the analysis,
19 you look at all the new air pollution sources that
20 have been built in this area since, say, 1977.

21 A VOICE: You say the area is a about 50
22 kilometer circle around --

23 MR. RHODES: Yes.

24 A VOICE: Basically, there were very few, if any,
25 air pollution generators down in this neck of the

1 woods back during that time (INAUDIBLE).

2 MR. RHODES: You also have to look at what else
3 the City of Tallahassee added up around Tallahassee.
4 That's been looked at, so --

5 MR. MILLS: So the air quality that you're
6 allowed to meet now is based on the air quality in the
7 Tallahassee-Leon area figured in with this area of
8 mine, even though the site is going to be generating
9 here, we're using --

10 MR. RHODES: Well, like I say, federal
11 regulations require the Department consider all the
12 sources that have been constructed, put in operation
13 in the area of influence. Certainly what Tallahassee
14 built up in Tallahassee in the '70s has an impact down
15 in Wakulla County.

16 MR. COLLETTE: The way I understand it.

17 A VOICE: Yes.

18 A VOICE: Air quality-wise, yes.

19 A VOICE: When the wind is from southwest to
20 northeast.

21 MR. LINERO: Well, the model takes into account
22 more than just the prevailing wind. It's going to
23 look at winds every hour. If we use a data set of
24 five years, we don't look at one that's every hour of
25 the day for a whole year, plus it goes out to five

1 years, so it's not just prevailing wind that has an
2 impact, but -- count more than that.

3 MR. RHODES: If you look at actual wind rows,
4 wind, and just go around the clock, it goes with
5 seasons. I mean, it goes around the compass, I should
6 say, because of the seasons. There are certain times
7 of the year, like right now, you start getting a lot
8 more northwesterly flow. I mean, different times of
9 the year you will get winds from the north, from the
10 northwest, north-northeast, and other times of the
11 year in the summer months you're going to get a
12 southerly flow because of the sea breeze effect. Of
13 course, at nighttime you have a reversal of that
14 seabreeze effect, you get the land breeze, so we have
15 to, the Department has to look at the entire suite of
16 winds that are available throughout the year, look at
17 the meteorology.

18 This is why we have to look at air quality impact
19 and sources, in let's say Leon County, on Wakulla
20 County as part of the (INAUDIBLE).

21 MR. COLLETTE: From a lay perspective, my
22 understanding, and I stand to be corrected by the air
23 people and the engineers, but the purpose for this
24 requirement was that -- you can eat up a whale by
25 little nibbles at a time, and the purpose of PSD is

1 we're going to look, and if somebody else has added
2 pollutants to the air, we're not going to allow them
3 to have another little nibble until eventually there's
4 a bunch of little nibbles adding pollutants in an area
5 and all of a sudden the air is out of quality, so
6 we're consider everything that's discharged and limit
7 this new discharge by what's in the air already.

8 A VOICE: Let me ask --

9 A VOICE: Yes.

10 MR. LINERO: (INAUDIBLE) the City of Tallahassee,
11 the allowable air pollution that's allowed on the
12 ground in that area, in the Tallahassee area, the
13 additional pollution since, say, 1977 can be a factor
14 of at least 10 times the amount that's allowed in this
15 general area, and the amount that's allowed in this
16 area has to consider whatever, whatever sources are
17 around here within 50 miles, so basically this is an
18 area that the law requires us to, to scrutinize a lot
19 more carefully, to be a lot more conservative in the
20 modeling and, again, this is where, this is where I'd
21 want to be, right next to that park. You've got a
22 (INAUDIBLE) burning natural gas, you've got caps on
23 emission, and I would be more than happy if you want
24 to visit me sometime at the office, it's not too far
25 away, I'll show you some other projects, I'll show you

1 the cleanest projects in the state, and --

2 MR. MILLS: Where I was coming from is it seems
3 like this county is getting penalized for the very air
4 that's in the Tallahassee and Leon area. We're being,
5 that's dropping the quality here because they have
6 problems with the air up there. You're taking in this
7 area for that, to actually clean that sampling up.
8 You're using some of this air and some of that air,
9 and over the urban areas you can have more pollution.

10 MR. LAWHON: That was the question I have. I
11 mean, say that Wakulla County wants to build a power
12 plant in a couple of years. We're going to be held to
13 restrictive guidelines because you're already using
14 some of our air quality here.

15 MR. OVEN: Try to make it -- when we look at,
16 say, the impacts on the St. Marks Wildlife Preserve,
17 which is basically south of the Purdom plant, right,
18 south and east?

19 A VOICE: Very little south, mostly east. Mostly
20 ocean to the south.

21 MR. OVEN: Yes, but there is a strip of it that's
22 to the south, so south and east. The Purdom plant has
23 a certain air quality impact there. We don't look
24 just at that impact. I mean, we do look at that
25 impact, but we also have to consider the air that's

1 coming down from Tallahassee.

2 MR. MILLS: That a good three or four times a
3 year that that does that.

4 MR. OVEN: Whatever. It doesn't make any
5 difference, it happens, we are forced to look at that.
6 So there are certain meteorological days when the
7 plume from the Arvah Hopkins power plant west of
8 Tallahassee will come directly over the Purdom plant,
9 going to the St. Marks Wildlife Refuge.

10 We have to evaluate that with the air quality
11 dispersion model to see whether or not the air quality
12 increment, Class I air quality increment which is the
13 most restrictive in the St. Marks Wildlife Preserve,
14 is complied with.

15 We've done that, and it does not violate it,
16 under those worst case conditions. We don't look at
17 the best case, we have to look at the worst case, and
18 line up the major sources, and does it pick up
19 something from what -- not necessarily that DuPont
20 puts out any sulfur or anything like that, or any
21 other oil companies in the area or anybody else
22 generating something. They don't like to be looked
23 at, and that's part of this PSD process.

24 So you're not necessarily getting penalized by
25 what Tallahassee has done up in Leon County. In some

1 cases it may help you. It's -- may prevent other
2 people from coming in.

3 Now, as far as whether or not you want to build
4 your own power plant, it depends on where you want to
5 build it as to whether or not, what the City will do,
6 St. Marks, will either help or hurt it.

7 A VOICE: The last comment about the keeping
8 other people (INAUDIBLE) they're going to take action
9 (INAUDIBLE) City of Tallahassee.

10 MR. LINERO: If you wanted to build your own
11 power plant, they, I believe I'm not mistaken if I
12 were to say that they have just put some of that
13 increment back onto the table because they've given up
14 their permanent right to pollute with 9,000 tons a
15 year of sulfur dioxide, and they have put that back on
16 the table. That wasn't there before. Even if they
17 didn't use that, those permitting words, they
18 basically said, here, we're giving them back again and
19 you know you can try to tap them and so forth, we just
20 don't want to exceed the increments (INAUDIBLE) in the
21 national ambient air quality standards, so --

22 MR. OVEN: Or some electric co-op or somebody
23 else who wants to build a power plant, now, hey, maybe
24 here's a place they can put one, because there's --
25 that's what might be your revenue stream.

1 A VOICE: (INAUDIBLE) federal and state statutes
2 are. They're taking that increment of dirty air and
3 setting it out on the table. It doesn't go away, it's
4 out there for everybody else to use, to bid on.

5 MR. MOWREY: Not bid on.

6 MR. LINERO: It would still have to be modeled
7 and you still, you still can't increase the national
8 ambient air quality standards, and I can tell you, it
9 would wind up being clean facilities like this one.
10 Nobody is going to come here and use that increment
11 with a, you know, with a very polluting facility, but
12 the increment is back on the table and that's probably
13 the thing that surprised me the most about this
14 project, that that happened, and that usually doesn't
15 happen. These rights are guarded jealously by the
16 people that I have dealt with throughout the industry.

17 MR. RHODES: I don't want to preempt anyone, but
18 are there any additional questions?

19 In that case, I will declare the public meeting
20 over. I appreciate all of you coming out tonight. We
21 really appreciate the opportunity to try to address
22 some of your questions.

23 (End of tape 2.)

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C E R T I F I C A T E

STATE OF FLORIDA)
COUNTY OF LEON)

I hereby certify that the foregoing transcript is of a tape-recording taken down by the undersigned, and the questions and answers thereto were reduced to typewriting under my direction;

That the foregoing pages 2 through 89 represent a true, correct, and complete transcript of the tape-recording;

And I further certify that I am not of kin or counsel to the parties in the case; am not in the regular employ of counsel for any of said parties; nor am I in anywise interested in the result of said case.

Dated this 8th day of June, 1998.

Clara C. Rotruck



CLARA C. ROTRUCK
MY COMMISSION # CC412184 EXPIRES
November 7, 1998
BONDED THRU TROY FAIR INSURANCE, INC.

CLARA C. ROTRUCK
Court Reporter



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW
ATLANTA, GEORGIA 30303-8909

OCT 14 1997

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OCT 20 1997

BUREAU OF
AIR REGULATION

4ARB-APT

Martin Costello, P.E.
New Source Review Section
Florida Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

SUBJ: City of Tallahassee Utility Services Purdom Unit 8
(PSD-FL-239)

Dear Mr. Costello:

By letter dated September 15, 1997, you requested that U. S. Environmental Protection Agency (EPA) Region 4 provide comments on the proposed custom monitoring schedule as highlighted on pages 8 and 9 of the draft Prevention of Significant Deterioration (PSD) permit. Additionally, you asked for comments on the proposed specific condition F1 which would allow the use of the title IV required NO_x CEMS for demonstrating compliance. After reviewing the conditions and the applicable guidance, our comments are as follows.

SO₂ Custom Monitoring Schedule

The currently applicable guidance for custom monitoring schedules is the memorandum dated August 14, 1987, from John Rasnic to Air Branch Chiefs entitled "Authority for Approval of Custom Fuel Monitoring Schedules Under NSPS Subpart GG" (enclosed). The proposed PSD permit is not consistent with this guidance in that the permit does not require sampling twice per month for six months and once per quarter for six quarters prior to going to semi-annual testing. Although the guidance acknowledges a growing trend toward the use of pipeline quality natural gas and the possible need to re-evaluate the sulfur monitoring requirement, the guidance has yet to be updated. E

Alternative NO_x Monitoring

The currently applicable guidance for alternative NO_x monitoring for sources subject to NSPS Subpart GG is found in the memorandum dated March 12, 1993, from John Rasnic to Karl Mangels, entitled "Approval of the Use of NO_x CEMS as an Alternative Method to the Water-fuel Ratio Monitoring under NSPS Subpart GG" (enclosed). The proposed permit is not consistent with this policy since the permit does not require that the results used to verify compliance with the NSPS limit be expressed in ISO standard conditions. The proposed NO_x emissions limits (12 ppm gas/42 ppm oil, 30-day average) appear to be lower



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

AUG 14 1987

OFFICE OF
AIR AND RADIATION

MEMORANDUM

SUBJECT: Authority for Approval of Custom Fuel Monitoring Schedules Under NSPS Subpart GG

FROM: John B. Rasnic, Chief *John B Rasnic*
Compliance Monitoring Branch

TO: Air Compliance Branch Chiefs
Regions II, III, IV, V, VI and IX

Air Programs Branch Chiefs
Regions I-X

The NSPS for Stationary Gas Turbines (Subpart GG) at 40 CFR 60.334(b)(2) allows for the development of custom fuel monitoring schedules as an alternative to daily monitoring of the sulfur and nitrogen content of fuel fired in the turbines. Regional Offices have been forwarding custom fuel monitoring schedules to the Stationary Source Compliance Division (SSCD) for consideration since it was understood that authority for approval of these schedules was not delegated to the Regions. However, in consultation with the Emission Standards and Engineering Division, it has been determined that the Regional Offices do have the authority to approve Subpart GG custom fuel monitoring schedules. Therefore it is no longer necessary to forward these requests to Headquarters for approval.

Over the past few years, SSCD has issued over twenty custom schedules for sources using pipeline quality natural gas. In order to maintain national consistency, we recommend that any schedules Regional Offices issue for natural gas be no less stringent than the following: sulfur monitoring should

be bimonthly, followed by quarterly, then semiannual, given at least six months of data demonstrating little variability in sulfur content and compliance with §60.333 at each monitoring frequency; nitrogen monitoring can be waived for pipeline quality natural gas, since there is no fuel-bound nitrogen and since the free nitrogen does not contribute appreciably to NO_x emissions. Please see the attached sample custom schedule for details. Given the increasing trend in the use of pipeline quality natural gas, we are investigating the possibility of amending Subpart GG to allow for less frequent sulfur monitoring and a waiver of nitrogen monitoring requirements where natural gas is used.

Where sources using oil request custom fuel monitoring schedules, Regional Offices are encouraged to contact SSCD for consultation on the appropriate fuel monitoring schedule. However, Regions are not required to send the request itself to SSCD for approval.

If you have any questions, please contact Sally M. Farrell at FTS 382-2875.

Attachment

cc: John Crenshaw
George Walsh
Robert Ajax
Earl Salo

Enclosure

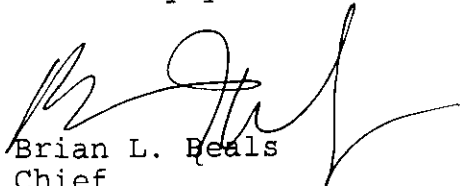
Conditions for Custom Fuel Sampling Schedule for Stationary Gas Turbines

1. Monitoring of fuel nitrogen content shall not be required while natural gas is the only fuel fired in the gas turbine.
2. Sulfur Monitoring
 - a. Analysis for fuel sulfur content of the natural gas shall be conducted using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or an approved alternative method. The reference methods are: ASTM D1072-80; ASTM D3031-81; ASTM D3246-81; and ASTM D4084-82 as referenced in 40 CFR 60.335(b)(2).
 - b. Effective the date of this custom schedule, sulfur monitoring shall be conducted twice monthly for six months. If this monitoring shows little variability in the fuel sulfur content, and indicates consistent compliance with 40 CFR 60.333, then sulfur monitoring shall be conducted once per quarter for six quarters.
 - c. If after the monitoring required in item 2(b) above, or herein, the sulfur content of the fuel shows little variability and, calculated as sulfur dioxide, represents consistent compliance with the sulfur dioxide emission limits specified under 40 CFR 60.333, sample analysis shall be conducted twice per annum. This monitoring shall be conducted during the first and third quarters of each calendar year.
 - d. Should any sulfur analysis as required in items 2(b) or 2(c) above indicate noncompliance with 40 CFR 60.333, the owner or operator shall notify the State Air Control Board of such excess emissions and the custom schedule shall be re-examined by the Environmental Protection Agency. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
3. If there is a change in fuel supply, the owner or operator must notify the State of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
4. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

than the NSPS limit (150 ppm, 1-hour average). Accordingly, if the source is in compliance with the PSD limit, it should also be in compliance with the NSPS limit. If, however, the source is in violation of the PSD limit, there would be a point at which the data would have to be corrected to ISO standard basis in order to tell whether or not the NSPS limit had been violated also.

Thank you for the opportunity to review and comment on this package. If you have any questions on these comments, please contact David McNeal of my staff at (404) 562-9102 or Gregg Worley of my staff at (404) 562-9141.

Sincerely yours,



Brian L. Beals
Chief
Preconstruction/HAP Section
Air & Radiation Technology
Branch

Enclosure

cc: File

S. Sheplak, BAR

M. Harley, BAMMS

G. Curtis, C of T