

1 fraction.

2 JUDGE SHEEHAN: If there are no
3 further questions on that issue, can we turn to
4 your increment argument, increment consumption?
5 I'll begin with Question E.

6 The scheme set out you've certainly
7 reflected in the NSR Manual is that
8 increments are set after a baseline is set.
9 And the baseline, 775, is nailed down. And
10 then emissions after that consume increment
11 or if emissions come offline after that time,
12 the increment pot can grow.

13 Page 10 of the manual, C-10 of the
14 manual, says that emission increases that
15 consume increment are those occurring after
16 the baseline is set, not before. Your
17 argument seems to be that you measure the
18 actual emissions after the baseline, and then
19 all of the emissions pre-baseline and
20 post-baseline consume increment. Thus, you
21 come up with a figure around 16,000 tons of
22 increment consumed by the WEPCO-PIPP plant.

1 Can you explain your theory of how the
2 increment principle works in the PSD world?

3 MR. BENDER: Yes, Your Honor. The Act
4 and the PSD rule distinguish between the major
5 source baseline data and the minor source
6 baseline data, and between the major sources and
7 minor sources. And it says, the plain language
8 is that the actual emissions as defined by the
9 cross-references -- the regulatory
10 definition -- from a major source constructed
11 after the baseline data consumes increment. And
12 that the only two possible definitions of actual
13 emissions are the 24-month annual average or the
14 potential to emit.

15 And what we're saying in this case
16 is DEQ did not do that. And what they claim
17 to have done is say I've taken the difference
18 between a single year, 1973, and another
19 single year, 2006, taken the difference and
20 determined that to be the amount of emissions
21 from the -- entities' Preque Isle plant that
22 consumes increment. And that's not the

1 definition of -- that doesn't fall within any
2 of those definitions of actual emissions.
3 And it doesn't fall within the research
4 review manual's discussion either.

5 JUDGE SHEEHAN: That's not
6 quite -- we'll get to that. That's not quite
7 what I was asking.

8 Say, for example, you had a
9 facility in 1970, say, and maybe 7 units of
10 pollution, and the baseline was set in 1975.
11 Sometime after that, there was a modification
12 and another three -- additional three units
13 of pollution were emitted. Would your
14 argument be that the increment consumption at
15 that point -- post-1975 -- was 3 units or 10,
16 pulling in the original 7 as well?

17 MR. BENDER: It would be the 24 months
18 before the relevant data. And I think the
19 relevant data is why that baseline is
20 established. So --

21 JUDGE SHEEHAN: So would the
22 modification increment consumption include

1 emissions that were set, that were included in
2 the original baseline, or not?

3 MR. BENDER: Maybe I'm not
4 understanding, I'm sorry. The original
5 baseline, are you referring to it as the '73
6 emissions or the '75 emissions?

7 JUDGE SHEEHAN: The seven units of
8 pollution that were included in the original
9 baseline. Would those seven units be included
10 in the increment calculation post-baseline? Or
11 would it just be the additional three that
12 increase after the seven, after the baseline is
13 set?

14 MR. BENDER: It would be all.

15 JUDGE SHEEHAN: All 10?

16 MR. BENDER: All 10.

17 JUDGE SHEEHAN: Then what happens to
18 the -- you're double counting? Because the
19 seven went into the original baseline, so you
20 counted them then and now you count them as
21 increment-consuming as well, so they're counted
22 twice?

1 MR. BENDER: Well, the regulation says
2 that they're not in the baseline, so they'd be
3 increment -- those emissions from -- and the way
4 the regulation reads is the actual emissions
5 from the source. And it's not the modification.
6 The regulations says the actual emissions from
7 the source are outside the baseline in consumed
8 increments. So they wouldn't be -- I think to
9 answer your question, they wouldn't be in the
10 baseline and increment consuming. They just
11 wouldn't be in the baseline.

12 JUDGE SHEEHAN: My question was that
13 they were in the baseline. They were alive and
14 well. They were out there at the time the
15 baseline was calculated. So it seems natural
16 that they would be having been included in the
17 baseline. What would the baseline encompass if
18 not actual emissions as of that point, as of
19 1975?

20 MR. BENDER: And the way Congress
21 defined it is it's a concept that is -- whatever
22 the -- it should be the air quality in the area

1 or the modeling representative of the air
2 quality in the area, but then there's provisions
3 or provisos to that. And some things are
4 subtracted from the baseline if certain events
5 occur. And one of those events is construction,
6 which is then defined to include a modification.
7 So a source that is -- a major source that is
8 constructed or modified after '75 is, by that
9 definition, not within the baseline
10 concentration.

11 JUDGE SHEEHAN: But if there
12 was -- yes, go ahead.

13 JUDGE WOLGAST: Are you saying then
14 that you would recalculate the baseline at that
15 point as well as the increment? When you have a
16 modification post-establishment of the baseline,
17 are you saying you'd recalculate the baseline?

18 MR. BENDER: Conceptually, that's what
19 happens. But I would note that when the
20 modeling is done for the PSD permitting, the
21 modeling is just of the increment and it's
22 compared to whatever the increment is. And so

1 there's a list of sources that are
2 increment-consuming. Their emissions are
3 modeled, and then that total from the
4 increment-consuming source list is then compared
5 to the increment. I'm not aware that the actual
6 baseline concentration is a number that's
7 calculated. It's a calculation of
8 increment-consuming sources compared to the
9 increment. So if a source is modified
10 after -- a major source is modified, major
11 modification, it qualifies as construction.

12 JUDGE WOLGAST: But one thing I'm
13 having trouble with is at the point that they
14 establish the baseline, then an increment is
15 calculated based on then-available new potential
16 emissions that is the delta between the baseline
17 and then the max itself to ensure that the area
18 stays in attainment. The increment then -- I'm
19 just -- I'm having a lot of trouble with the
20 fact that when you pull any new facility or any
21 new modification that then gets sort of taken
22 out of the pre-baseline and then moved over to

1 the other side of the ledger, in my mind,
2 increment would not have been calculated the way
3 it was, if in fact all of those emissions now
4 are moving from one side of the ledger to the
5 other side of the ledger.

6 MR. BENDER: I think -- to answer your
7 question, the increment is established in the
8 regulations. For example, a 24-hour SO₂ is 5
9 microns per cubic liter. When a permit
10 application comes in, the permit applicant
11 identifies what's called map sources. All
12 sources will be modeled for map compliance.

13 It also identifies PSD
14 increment-consuming sources. And those PSD
15 increment-consuming sources are then used to
16 run a separate and additional modeling
17 result. And that modeling result is compared
18 to the increment, the 5 microns. And so what
19 you're doing is you're just making your PSD
20 increment-consuming sources list more
21 inclusive by including those sources that
22 major modifications -- major modified sources

1 that were modified after the baseline date.

2 That source would be included in
3 that modeling runs of the PSD sources. Then
4 that result is compared to the increment
5 threshold, so it'd be the 5 microns, for
6 example, in the class 1 monitor.

7 JUDGE REICH: I go back one step. I
8 understand, I think, the significance of whether
9 something was in or not in based on -- but how
10 is the baseline calculation used? What is the
11 significance of the number you would generate by
12 generating a baseline calculation?

13 MR. BENDER: I see my time is up, Your
14 Honor. I think that answer in the way that I
15 understand it is these permit applications and
16 analysis are wrong is that the baseline does not
17 figure. The application doesn't identify what
18 the baseline was.

19 It only identifies what the
20 increment consumption is and then compares
21 that to the --

22 JUDGE REICH: So you're saying whether

1 this was still included or backed out of the
2 baseline wouldn't have any real significance?
3 The only real significance is whether it's
4 counted towards the increment.

5 MR. BENDER: Right. The significance
6 of it is whether or not it counts towards which
7 sources -- consumed increment are included in
8 that --

9 JUDGE REICH: Right. But it's a focus
10 on consuming increment, not being or not being
11 part of the baseline.

12 MR. BENDER: Right. I don't think
13 identifying what that baseline was as a number
14 in 1975 or today is critical or -- I don't even
15 know that it's looked at. Instead, what it's
16 focused on the amount of increment and how much
17 will exist. Thank you.

18 JUDGE SHEEHAN: I think I'd like to
19 hold you up for a few more minutes if I could, a
20 few more areas yet to go through. Modeling?
21 You seem to be arguing that the -- to take an
22 example, PM and SO₂, that the average periods

1 used for the permit limits, permit limits, to
2 align with the NAAQS and increment standard
3 limits in average periods, that the PM and SOX
4 average periods in the permit were generally
5 longer, more hours than the very short NAAQS
6 increment standard time periods.

7 The response to comments by NMU is
8 certainly not very detailed. But in their
9 brief, they make the argument that they did
10 do the calculation that you asked for after
11 all and it came up with 87 pounds per hour.
12 And that reflects short-term emission limits.
13 What's wrong with that?

14 MR. BENDER: The 87 pounds per hour is
15 not an hourly limit and it's not a maximum
16 theoretical emission. Instead, it's taking the
17 24 -- my understanding it's taken a 24-hour
18 limit or the 24-hour emissions, assuming the .2
19 pounds per million BTU SO2 limit, for example,
20 and dividing it by 24. So it assumes that the
21 24-hour limit is actually a 1-hour limit,
22 enforceable on a 1-hour period, but it's not.

1 You know, within that 24-hour period, the source
2 could still comply with the 24-hour average and
3 have double the hour emission rates as long as
4 it made up for that during the 24-hour period by
5 reducing operations or burning of cleaner fuel,
6 such as wood. There's no protection in the
7 limits of a certain average because the limits
8 aren't enforceable that short-term --

9 JUDGE SHEEHAN: So what they claim is
10 a 1-hour limit, you're saying is in reality a
11 24-hour limit?

12 MR. BENDER: That's correct. When you
13 look at the permit, Your Honor, there's for PM
14 -- or SO₂, for example, there's a 30-day and a
15 24-hour limit. There's no hour limit, there's
16 no 3-hour limit, which is different from what
17 many permitting sources or permitting agencies
18 do. And I think we included one example as an
19 exhibit where the agency will set limits -- a
20 30-day limit, an annual limit maybe, 24-hour
21 limit, and a 3-hour limit -- and it will model
22 each of those for the relevant mass and

1 increment. And that's consistent with the NSR
2 Manual that says model with the maximum, either
3 the maximum physical capacity or the enforceable
4 limit, when there is an enforceable limit that
5 corresponds to the average in the period.

6 JUDGE SHEEHAN: Thank you. Lastly,
7 turning to the Class 1 increment issue.

8 MR. BENDER: Yes.

9 JUDGE SHEEHAN: The NSR Manual sets
10 out a 1-microgram limit as far as a trigger for
11 the Class 1 analysis goes. You seem to think
12 that's -- I guess you argue in your brief it's
13 unlawful. Is there any limit existing in your
14 mind that's so low that no analysis needs to be
15 done, or any distance so great from the source
16 to the area of impact, the Class 1 impact area,
17 that would not require the Class 1 analysis to
18 be done?

19 MR. BENDER: I think the act prohibits
20 any contribution to a violation. So I think
21 under the act, that's the only option.

22 If your question is whether

1 actively speaking, is there anything that's
2 de minimis, that there's such a low
3 concentration, I think if there is, it's much
4 lower than what was actually modeled for this
5 plant. This plant model had a 0.42 microns
6 per cubic meter for 24-hour SO₂. That's over
7 8 percent of the relevant increment. When
8 the EPA has proposed in the past to do
9 significant impact levels by rule, it has
10 used a metric of 4 percent of the relevant
11 increments. So based on that standard, which
12 I think is still too high, even based on that
13 metric, this is still double that.

14 JUDGE SHEEHAN: So it's less than half
15 of what the NSR Manual sets out, but it's still
16 in your mind unacceptable?

17 MR. BENDER: That's right, Your Honor.
18 The NSR Manual, and I note that it's included in
19 a footnote in the NSR Manual, but the NSR Manual
20 is 24-hour 1-micron standard. It's 20 percent
21 of the entire increment for all
22 increment-consuming sources in an area where

1 there are numerous power plants. And there's
2 two power plants of numerous units at each in
3 Marquette, Michigan. There are mining
4 operations there. There's this boiler and there
5 are power plants in Northern Wisconsin as well.
6 I mean, when you include all of those, all of
7 those increment-consuming sources, it's
8 certainly foreseeable.

9 JUDGE SHEEHAN: What about the
10 practical reality here that the state did
11 contact the federal land managers at Seney and
12 Isle Royale, both of whom said we don't have a
13 problem.

14 MR. BENDER: I think that was the for
15 the AQRV analysis, Your Honor. And the AQRV
16 analysis and the increment analysis need to be
17 run separately. And there's no authority in the
18 act or in the regulations or in any guidance I'm
19 aware of for the federal land manager to waive
20 the increment analysis. The act is pretty clear
21 that to be able to obtain a permit, the
22 applicant has to demonstrate compliance with

1 increment. They cannot cause or contribute to a
2 violation of increment.

3 JUDGE SHEEHAN: So you're saying that
4 the state did not provide all the information to
5 the land managers at Seney and Isle Royale?

6 MR. BENDER: What I'm saying is that
7 the state did not conduct an increment analysis
8 to know whether or not the increment was
9 violated or not. Based on the model
10 concentration that they did run, the screening
11 model, it showed 8 percent, which is a pretty
12 significant number for the entire increment in
13 that Class 1 area to know whether the increment
14 itself has been violated or not. Just didn't
15 run that model to know.

16 JUDGE REICH: Okay, thank you. Mr.
17 Gordon?

18 MR. GORDON: Good morning.

19 JUDGE REICH: Good morning.

20 MR. GORDON: I'd like to reserve 5
21 minutes of the 30 minutes that I'm allotted for
22 rebuttal.

1 Your Honors, Petitioner identifies
2 a whole range of issues on which they
3 disagree with the conclusions of the Michigan
4 Department of Environmental Quality. And I
5 think it's important to remember before we
6 get into the specific issues what the
7 standard of review here is. And that is that
8 they have to demonstrate that there's been a
9 clear error.

10 I think when we delve into each of
11 the individual issues, you'll find that there
12 actually hasn't been any demonstration of
13 clear error. In fact, when you look at them
14 carefully, they haven't actually shown any
15 issue at all. They've simply demonstrated
16 that they don't agree with the way the DEQ
17 went about its analysis.

18 There are a whole host of issues.
19 I'm going to present them, if it would please
20 the Court, in the order in which they were
21 arranged, if that's fine with you.

22 JUDGE SHEEHAN: As sort of a general

1 backdrop question, the very first page of the
2 application said that the intention was for the
3 CFB to operate 100 percent on wood. Then per an
4 addendum several months later, you also repeated
5 that general thought that the primary fuel would
6 be wood. Then you turned to the fact sheet in
7 the permit and you see, as was earlier
8 indicated, coal 22 days per month. Wood
9 obviously seven or eight days. How do you
10 square not necessarily a legal issue, but how do
11 you square the proclamation of your intention to
12 use so much wood, and then, in reality, seems to
13 be anything but?

14 MR. GORDON: I think the basis for the
15 mix of coal and wood that are to be burned at
16 the facility and on which the SO2 emission
17 limits are based is based on two factors: One,
18 it's based on the limited storage capacity for
19 any fuel at the facility, be it wood or coal;
20 and two, it's based on the reality that the wood
21 fuel deliveries during those winter months will
22 be disrupted.

1 JUDGE SHEEHAN: But if we turn in that
2 regard to storage, Mr. Kucera, could you put up
3 the facility design document submitted by the
4 state here? There's the facility.

5 Let me ask you questions, if I may,
6 Mr. Gordon, about that. In the center near
7 the bottom, you see the wood silo capacity,
8 which appears to be a fairly large area
9 compared to the coal silo, which is above and
10 to the left of the wood silo, the little
11 square building? The storage area for wood
12 generally, including the silo and to the
13 right, the handling building and the wood
14 hopper, appear much larger than the coal
15 storage area. Is that accurate that there's
16 a lot more capacity to store wood than coal,
17 as seems to be reflected here in this design?

18 MR. GORDON: Well, I think the
19 question is how many days of capacity it is.
20 And what the university submitted in its permit
21 application was that the storage capacity at
22 this site for coal and for wood is a three-day

1 fuel supply for each of those separately. Three
2 days fuel supply of wood.

3 JUDGE SHEEHAN: Your papers did not
4 say separately. It said three days fuel supply
5 without any differentiation between them.

6 MR. GORDON: Their permit application
7 indicates that there's two silos, and that it is
8 a three-day supply for wood and a three-day
9 supply for coal. And I don't know on this map,
10 on this schematic, does it indicate that the
11 wood silo building is of a larger area than of
12 the coal silo, coal storage area? It is a silo.

13 Yes. I think the question is, is
14 there anything in the record to demonstrate
15 that the capacity is less than a three-day
16 storage capacity, as represented? And DEQ --

17 JUDGE SHEEHAN: Well, let's talk about
18 capacity. If you look to say Lot 19 up there at
19 the top and to the left -- Mr. Kucera, could you
20 slide, yes, to the left just to Lot 22, which is
21 the large area. If you could slide it the other
22 -- there we go. So Lot 19 and Lot 22 appear

1 both vast and empty. The area around the Ripley
2 Heating Plant in the top right corner has a
3 buffer to the top and right, but also appears
4 large and vacant. Why is it that the storage
5 capacity is so stringent and constricted, as you
6 indicate, when your own map seems to indicate
7 anything but?

8 MR. GORDON: Frankly, I don't know if
9 it's fair to conclude that those large -- those
10 maps are vacant, to be honest with you. I think
11 --

12 JUDGE SHEEHAN: There's nothing on
13 them like there is in the rest --

14 MR. GORDON: There's nothing on them
15 represented in this schematic, but in this
16 diagram --

17 JUDGE SHEEHAN: Well, that's the
18 record you gave us. What else do we have to go
19 from?

20 MR. GORDON: I think it's based on the
21 representation of the university as to the
22 diagram represents what's at the Ripley Fuel

1 Heating Plant.

2 I don't think they endeavored to
3 try to show what's on other lots. As I read
4 their application, they're not diagraming and
5 indicating every structure on adjacent lots.

6 JUDGE SHEEHAN: Well, it certainly
7 raises the question -- there was no way that
8 evidently the university really attempted to
9 really clarify for us the true facts on the
10 ground there. And what they did give us appears
11 to show that there's a lot less storage
12 capacity.

13 MR. GORDON: I don't think so. I
14 think the representation on the record is that
15 the capacity of what is for storage for each of
16 those fuels is three days. The DEQ examined it.
17 It looked at that issue and that -- there's
18 nothing to contradict that other than, I
19 suppose, a potential surmise that maybe you
20 could have something on some adjacent lot. But
21 that's not -- there's nothing in the record to
22 actually demonstrate and overcome to show that

1 there was clear error in that regard.

2 JUDGE SHEEHAN: Well, it could well be
3 that it's true there is a three-day storage
4 capacity for the areas denominated for storage.
5 But it doesn't mean that there aren't other
6 areas available for storage that simply weren't
7 used.

8 MR. GORDON: You know, I suppose we
9 could speculate that there, you know, someplace
10 a block away, two blocks away, there may be. As
11 to what that would mean in terms of
12 reconfiguring the plant in terms of being able
13 to then have a conveyor to actually have the
14 wood from a facility two blocks away, a storage
15 facility two blocks away, being able to feed
16 that into the boiler, those are all issues that,
17 frankly, were not presented in the record. I
18 think the question here is --

19 JUDGE REICH: Well, who's burden is
20 it? I mean, if a central part of the BACT
21 analysis relates to storage, is there really
22 someone like Sierra Club's burden to find and

1 make arguments for additional storage or is it
2 not your burden as the permit issuer to explore
3 what possibilities exist for storage that would
4 allow for a more stringent limit and make a
5 determination as to whether those possibilities
6 are there or not?

7 MR. GORDON: I think when you apply
8 that question to this case, the burden is on the
9 Sierra Club here. Here, the record demonstrates
10 the permit application --

11 JUDGE REICH: I'm not talking about
12 the appeal stage. I'm talking about at the
13 basic permit issuance stage.

14 MR. GORDON: Permit issuance stage.
15 The information presented to the DEQ is that the
16 capacity of storage at this facility is three
17 days of wood here.

18 JUDGE REICH: And you have no
19 independent obligation to verify that
20 information?

21 MR. GORDON: No, DEQ reviewed it and
22 considered whether there was room for more

1 storage capacity at this facility.

2 JUDGE REICH: So you did consider
3 whether there was room for more? You did an
4 independent analysis to that and that
5 independent analysis is part of the record?

6 MR. GORDON: I think what DEQ -- it
7 shows that the DEQ reviewed it, reviewed their
8 permit application. The response to comments
9 says that based on the review of it, they were
10 satisfied that in fact, that was the capacity.
11 In those circumstances, I think it's incumbent
12 upon the Petitioner to say no, there's something
13 wrong with that. You didn't actually look at X,
14 Y, and Z. And if you had looked at X, Y, and Z,
15 there would be clear error.

16 JUDGE REICH: Do you know --

17 MR. GORDON: And they haven't done
18 that here.

19 JUDGE REICH: Is there anything in the
20 record that actually is an analysis, or is there
21 just the recitation that you looked at it and
22 reached this conclusion?