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In the Matter of the Applications of
CROSSROADS VENTURES, LLC

for the Belleayre Project at Catskill Park
for permits to construct and operate pursuant to
the Environmental Conservation Law

Margaretville Fire House
Margaretville, New York
May 27, 2004

B E F O R E :

HON. RICHARD WISSLER,
Administrative Law Judge

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1
2 LIST OF EXHIBITS
3 CPC
4 EXHIBIT NOS. DESCRIPTION IDENT. - PAGE
5 1 "TABLE 2" COMPARISON OF
6 TRAFFIC VOLUMES REPORTED BY CME
7 FOR THE BELLEAYRE RESORT WITH COUNTS
8 TAKEN FOR THE CATSKILL CENTER ON
9 SAT. FEB. 15, 2003 193
10 2 "ACCESS TO BELLEAYRE SKI RESORT - SHUTTLE TRAVEL
TIME" 195

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1 (9:36 A.M.)

2 P R O C E E D I N G S

3 ALJ WISSLER: This is the Issues

4 Conference in the matter of the application of
5 Crossroads Ventures continued, and our issue
6 for discussion this morning will be traffic.

7 Is there anything preliminarily that I
8 need to know before we begin?

9 (NO AFFIRMATIVE RESPONSE.)

10 The record should reflect that
11 yesterday we had a site visit, focusing almost
12 exclusive on the wildacres portion of the
13 application, and that that site visit extended
14 from 9 o'clock yesterday morning until about
15 6:30, quarter to 7 last night.

16 My intention this morning is to do
17 traffic, and sometime around 11:30 or 12, to
18 conclude that issue if we can and continue the
19 site visit at the Big Indian site.

20 On the matter of traffic, Mr.
21 Gerstman, I think you have the lead here in
22 that; am I right?

23 MR. GERSTMAN: Yes, your Honor.

24 ALJ WISSLER: Is the City going to
25 weigh in on the traffic at all?

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1 MR. GREENE: The City is not.

2 ALJ WISSLER: For the sake of the
3 record, let me have the appearance of counsel.

4 MR. RUZOW: For the Applicant, Dan
5 Ruzow and Terresa Bakner from Whiteman,
6 Osterman & Hanna.

7 MS. KREBS: Department Staff, Carol
8 Krebs, Assistant Regional Attorney, and
9 Vincent Altieri, Regional Attorney.

10 MR. GERSTMAN: For the Catskill
11 Preservation Coalition, Marc Gerstman, Cheryl
12 Roberts and Eric Goldstein.

13 ALJ WISSLER: Mr. Gerstman, it's all
14 yours.

15 MR. GERSTMAN: Your Honor, I would
16 like to introduce Mr. Brian Ketcham who is our
17 expert witness on the traffic impacts from the
18 Belleayre project. His curriculum vitae has
19 been submitted as part of the petition which I
20 think has been designated as Hearing Exhibit
21 8. His traffic report has also been submitted

22 as part of that petition.

23 For his introduction, I would like Mr.
24 Ketcham to briefly talk about his professional
25 experience and background.

(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 MR. KETCHAM: Thank you, your Honor.
2 I've had about 35 years experience in traffic
3 and transportation environmental engineering;
4 starting out actually with the -- part of that
5 was in design engineering for the automotive
6 industry, but shortly after that, I joined the
7 John Lindsay administration in the early--late
8 '60's, early '70's, and actually worked with
9 DEC. I was the lead author on New York City's
10 Transportation Control Plan in 1972 and '73,
11 and set up the Bureau of Motor Vehicle
12 Pollution Control for the city. During that
13 time, I went on to do a lot of advocacy work.
14 I formed my own corporation with Carolyn
15 Kohheim in 1981, Konheim & Ketcham, doing
16 transportation and environmental engineering.
17 We've done many, many environmental impact
18 statements over the years, comparable to what
19 we have on the table here.

20 I also am Executive Director of
21 Community Consulting Services, which is a
22 not-for-profit we established several years
23 ago to continue our pro bono work in projects
24 like this. I don't know how much more you
25 need. I'm a licensed professional engineer in
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 New York State.

2 MR. GERSTMAN: Thank you. I also want
3 to point out that Mr. Ketcham is a resident of
4 Margaretville, part-time resident of
5 Margaretville.

6 Mr. Ketcham, would you like to expand
7 on that?

8 MR. KETCHAM: Well, I live two miles
9 from here, and so I am -- as of about two and
10 a half years ago. So I'm very familiar with
11 the area. I ski at the Belleayre Ski Center
12 and travel Route 28 on an almost weekly basis,
13 particularly in the wintertime. I have
14 observed a lot of activity with the ski area
15 over the past two and a half years. So I
16 really have ongoing familiarization,
17 familiarity rather, with the traffic both
18 during the wintertime, which is what I've been
19 looking at for this project, as well as
20 throughout the year.

21 MR. GERSTMAN: As a part-time resident
22 of Margaretville and you have a home in
23 Margaretville, have you taken a position one
24 way or the other with respect to the proposal
25 of the Belleayre project?

(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 MR. KETCHAM: I have not. I'm neutral¹⁹¹
2 on the project. My objective in appearing
3 here and many, many other similar actions is
4 simply to get at -- to help the community
5 understand the impact of a project itself, to
6 get the truth on the table, and that's why I'm

7 here now.

8 MR. GERSTMAN: Your Honor, as you've
9 read in the petition, we believe that the
10 Draft Environmental Impact Statement does not
11 adequately address the significant adverse
12 traffic impacts which will be associated with
13 the project, and as a result we believe the
14 Commissioner will be unable to issue her SEQRA
15 findings pursuant to 6 NYCRR 617.11.

16 We believe that traffic impacts are
17 tied very closely to the adverse impacts on
18 community character. They will certainly
19 impact the rural and Catskill Mountain
20 experience that people have come to enjoy and
21 love in visiting this area. There will be
22 impacts to people visiting the forest preserve
23 and taking advantage of the open space and the
24 State land associated with the state lands.

25 The DEIS generally -- we will get into
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

□

1 the details -- under-reports the existing
2 traffic conditions, utilizes erroneous project
3 completion date as a base line for project
4 analysis, under-reports the worse case
5 scenario, ignores the summer traffic situation
6 and the temporal distribution of traffic. It
7 ignores the Belleayre Mountain ski expansion.
8 It under-reports the project impacts and
9 misrepresents traffic distribution.

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10 we believe that the results of the
11 growth, background growth of the project and

12 5-27-04 crossroads
13 the Belleayre Mountain ski expansion will have
14 significant impacts on traffic along the
15 entire Route 28 corridor, and that has not
16 been adequately addressed.

17 Rather than me asking Mr. Ketcham
18 questions, I'm going to ask Mr. Ketcham to
19 begin the analysis and provide you, your
20 Honor, with the report that he has prepared.
21 I'm going to distribute a packet of documents,
22 some of which are --

23 ALJ WISSLER: G and I, I think, are in
24 there. Are you giving me something that's
25 different than what you have given me?

MR. GERSTMAN: Some of the documents
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 are the same, and they are marked, and some of¹⁹³
2 them are different. So we can mark them as G
3 and I, did you say?

4 ALJ WISSLER: I'm referring to your
5 petition. There are exhibits in your petition
6 which are two reports by Mr. Ketcham, Exhibits
7 G and I.

8 MR. GERSTMAN: That's correct. Some
9 of the tables and figures that are identical
10 are labeled as Table 1 or Figure 1, those are
11 included in Mr. Ketcham's report. Those that
12 don't have such a demarcation are additional
13 exhibits. For convenience, I put a package
14 together and thought we could identify this as
15 Catskill Preservation Coalition --

16 ALJ WISSLER: CPC 1 and 2.

17 ("TABLE 2" COMPARISON OF TRAFFIC
Page 8

18 VOLUMES REPORTED BY CME FOR THE BELLEAYRE
19 RESORT WITH COUNTS TAKEN FOR THE CATSKILL
20 CENTER ON SAT. FEB. 15, 2003 RECEIVED AND
21 MARKED FOR IDENTIFICATION AS CPC EXHIBIT NO.
22 1, THIS DATE.)

23 ALJ WISSLER: For the record, CPC
24 Exhibit 1 is a document, the facing page is
25 titled, "Table 2 Comparison of Traffic Volumes
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 Reported by CME for the Belleayre Resort with ¹⁹⁴
2 Counts Taken for the Catskill Center on
3 Saturday, February 15th, 2003;" am I correct?

4 MR. GERSTMAN: Yes, your Honor.

5 MR. RUZOW: For the record, Marc,
6 copies will be given to the other parties that
7 aren't here -- the proposed parties,
8 Shandaken, Mr. Baker?

9 MR. GERSTMAN: That's a good question.
10 Your Honor, I don't know that Mr. Baker had an
11 issue with traffic.

12 MR. RUZOW: You raised it in the
13 context of community character and the town's
14 comments, Ms. Draden's [sic] comments are what
15 they are, but they seem to be a little
16 parallel. I guess I want to be clear that we
17 all have to get copies.

18 ALJ WISSLER: Yeah, we do. Frankly
19 that goes for everything that we've done so
20 far. Shandaken needs to have that record.

21 MR. GERSTMAN: They'll have a
22 transcript.

23 ALJ WISSLER: They're part of this
24 process. The transcript will have a hole in
25 it if they don't have the exhibits.
□ (BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 A note to all counsel, that if you put ¹⁹⁵
2 in exhibits, you need to copy Shandaken and
3 Mr. Baker's group; and what I would ask is
4 that you simply copy me on any cover letter
5 that accompanies those exhibits.

6 ("ACCESS TO BELLEAYRE SKI RESORT -
7 SHUTTLE TRAVEL TIME" RECEIVED AND MARKED FOR
8 IDENTIFICATION AS CPC EXHIBIT NO. 2, THIS
9 DATE.)

10 MR. KETCHAM: You have seen my
11 submission and I want to walk you through the
12 process using the exhibits submitted for that
13 purpose. I want to talk about first the base
14 line that has been established in the DEIS,
15 and as I see it, how you estimate future
16 conditions, how you account for the expansion
17 of the Belleayre Ski Resort, estimating the
18 project impacts themselves, determining how
19 the traffic from the proposed project is
20 distributed on the region's roadway network,
21 estimating the impacts of that distribution of
22 traffic on the operation of the network,
23 looking at parking conditions, parking
24 requirements, and finally looking at
25 mitigation.
□ (BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 I want to start with establishing a ¹⁹⁶
2 base line. If you look at the first table

3 -- I'm sorry I don't have these numbered but
4 I'll describe them. It says Table 2. what we
5 did in February of 2003 is went out and did
6 our own counts at several locations along
7 Route 28. we did two-hour counts similar to
8 what was done for the EIS for several
9 locations, the morning and peak hours. And
10 what we found was that in 2003, the traffic
11 volumes were about 20 percent greater than
12 were reported in the DEIS for the CR 49A, the
13 entrance to the Catskill Ski Resort, and the
14 other one that's reported here was County Road
15 47, which was overall 12 percent higher in the
16 morning and 16 percent higher in the evening.
17 I think of importance is to note the increase,
18 however, in movements entering and leaving the
19 ski resort itself. For example, in the
20 morning, we observed 31 percent more traffic
21 than was reported in the DEIS and in the
22 evening --

23 ALJ WISSLER: Mr. Ketcham, you're
24 referring to Exhibit 2?

25 MR. KETCHAM: Table 2.
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 ALJ WISSLER: Table 2 in Exhibit 1,
2 I'm sorry. So that we can all follow along
3 with what you are telling us from that table,
4 can you tell us where you are at?

5 MR. KETCHAM: Yes. There's two
6 portions to this table, there's an upper and
7 lower. If you look at the first table, says,

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8 "County Road 49A at Route 28."

9 ALJ WISSLER: You said 31 percent?

10 MR. KETCHAM: If you look at the first
11 row on top of there, says left, this is the
12 northbound movement on Route 28, it says left.
13 That's traffic moving west, turning left into
14 the ski area. What we observed was 355
15 vehicles an hour making that left turn versus
16 270 reported in the DEIS. That's a 31 percent
17 increase.

18 The other figure I mentioned was in
19 the evening. If you go down about ten rows to
20 what is the eastbound CR 49A right turn,
21 you'll see that at least in the evening, which
22 is the critical hour, there was a 34 percent
23 increase in traffic in our observed traffic
24 compared to what was reported in the DEIS.
25 Then if you go down to the bottom of that
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

□

1 percentage column, says 20 percent for both
2 morning and evening. That's the overall
3 movement of vehicles through that intersection
4 during morning and evening.

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5 ALJ WISSLER: During a peak hour?

6 MR. KETCHAM: Yes, the morning peak
7 and the evening peak.

8 ALJ WISSLER: When are they?

9 MR. KETCHAM: From roughly 8:30 to
10 9:30 in the morning, and 3 to 4 in the evening
11 -- I'm sorry, 4 to 5 in the evening.

12 ALJ WISSLER: Those were the times at
13 which these counts were taken?

5-27-04 crossroads

14 MR. KETCHAM: We took counts from
15 about 8 to 10 in the morning, and from about 3
16 to 5 in the evening along -- at several
17 locations along Route 28. Then the next table
18 presents the results of County Road 47, with
19 some similar results. Again, overall at the
20 bottom of the percent column, you see that we
21 observed 12 percent more traffic moving
22 through that intersection in the morning and
23 16 percent in the evening.

24 ALJ WISSELER: This is as compared to
25 the figures in Appendix 25 of the EIS?
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 MR. KETCHAM: Yes. So overall,
2 there's a substantial increase in observed
3 traffic. Part of that -- I'll get to that in
4 a minute -- is a consequence of growth in the
5 background traffic. That's comparing our
6 numbers for 2003 with their numbers for 2000,
7 and they're assuming a 3 percent per year
8 growth. That would account for some of the
9 increase, the other would be accounted for by
10 the growth in traffic at the ski resort
11 itself. I'll get to that in a minute.

12 Something we did which was not
13 included --

14 ALJ WISSELER: Route 28, East of 49A,
15 DEIS, 2-15-03, the list on the next page?

16 MR. KETCHAM: Yes. It says, "Route
17 28, East of 49A, DEIS, 2-15-03."

18 ALJ WISSELER: Okay. So we're all on

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19 the same page.

20 MR. KETCHAM: What this shows is the
21 temporal characteristics that we observed
22 along Route 28 just east of 49A. This is just
23 representative of what should have been
24 presented in the DEIS. We developed this from
25 all the data that we collected that was
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 presented, as well in the DEIS, and that
2 -- and information we got from the ski center
3 itself, and compiled all that into this. It's
4 an approximation of what happens hour by hour
5 along Route 28.

6 ALJ WISSLER: Let me stop you there
7 for a second. If we go back to the first
8 page, Table 1 -- you have 49A at 28, 2/15/03,
9 total is 652 is what you got; correct?

10 MR. KETCHAM: Yes.

11 ALJ WISSLER: Looking at the next
12 page, is there a time frame? Where does that
13 figure of 652 add up from the totals listed on
14 the next page? Do you understand what I'm
15 saying?

16 MR. KETCHAM: Yes, it does add up.

17 ALJ WISSLER: What hours am I looking
18 at to get to 652?

19 MR. KETCHAM: The second table is the
20 movement of traffic along 28 in both
21 directions east of the site where we took
22 data, collecting data, east of the site.
23 We're not at the intersection itself, we're
24 beyond the intersection. And so to get the

25 numbers, you have to add up the -- in terms of
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 the --

2 ALJ WISSLER: There's not a direct
3 correlation?

4 MR. KETCHAM: There is. The numbers
5 come directly from the first table, says Table
6 2, but you have to -- for example, to get the
7 numbers from Table 2, you have to add up all
8 of the vehicles approaching the intersection
9 from the east going west, and you have to take
10 all of the -- to get to the eastbound, you
11 have to take the three movements leaving the
12 intersection, the northbound right turn, the
13 eastbound through and the westbound left turn,
14 add those together to get the numbers that are
15 shown on the second table. They do add up.

16 ALJ WISSLER: Again, my bottom line
17 question is: when I look at February 15th,
18 '03, total of 652 for the a.m. peak hour --

19 MR. KETCHAM: That comes directly off
20 this other table. If you want, I can mark
21 this up and show you.

22 ALJ WISSLER: Yes, because I'd like to
23 know what the correlation is on those two
24 tables.

25 MR. KETCHAM: You want me to do it
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 now?

2 ALJ WISSLER: You can do it on a
3 break. I want to be able to go from one to

4 the other.

5 MR. KETCHAM: The numbers come
6 directly off the data that we collected in the
7 field.

8 ALJ WISSLER: How long would it take
9 you to do that math for me?

10 MR. KETCHAM: Just a minute.

11 ALJ WISSLER: Go on. I do want you to
12 come back and show me that map.

13 MR. KETCHAM: That's fine. Take my
14 word for it now that they do match but I'll
15 show you.

16 ALJ WISSLER: I have no reason not to.

17 MR. KETCHAM: You can develop this
18 stuff -- this should have actually been taken
19 in the field through ATR counts, Automatic
20 Traffic Recorder counts. The ATR counts that
21 were included in the DEIS were a couple of
22 hours. They weren't for an entire period.
23 Normally we do ATR counts for a project, we do
24 an entire week so we have a clear
25 understanding of how a roadway segment is
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 working. They didn't do it in this case, and ²⁰³
2 I'll get to why this is important in a second.
3 The next table.

4 MR. GERSTMAN: Mr. Ketcham, let me
5 interrupt you. February 15th, 2003, did that
6 represent a worst case scenario, was that
7 typical traffic for that period of time?

8 MR. KETCHAM: Actually we took that
9 because it was one of the peak weekends. But

10 if I can jump ahead a little bit, there are
11 two tables in here that I think -- if you jump
12 ahead about four tables, there's one -- I have
13 to show them to you.

14 ALJ WISSELER: You have this table in
15 Exhibit G?

16 MR. KETCHAM: That's this one here.
17 Those two tables I'm talking about if the rest
18 of you folks want to know where I'm at.
19 (Indicating).

20 MR. GERSTMAN: The first one is Figure
21 1 from Mr. Ketcham's offer of proof, and the
22 second one is Table 1.

23 ALJ WISSELER: Both of those are in the
24 packets that is CPC Exhibit 1?

25 MR. KETCHAM: Yes, they're in both
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 packets. But let me just address those two
2 because they address what Marc was just
3 talking about. You look at Table 1 provided
4 by the ski center, and it shows you the 20 or
5 so peak ski days in the 2002/2003 ski season
6 that we get. If you look at the one that's
7 got a 1 there, the Martin Luther King day, it
8 says 2,928 skiers. The day we took counts,
9 there were 3,970 skiers, higher than on the
10 day that was counted for the DEIS, but
11 considerably below what their peak is.
12 They're getting -- several points here. They
13 had at or near 5,000 skiers per day; and I
14 think the point that was being made is that

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15 what we measured on February 15th was not a
16 worst case day, it was 20 percent below what a
17 worst case day is.

18 ALJ WISSLER: In your understanding,
19 what is the day that's used in the DEIS?

20 MR. ALTIERI: Your Honor, we have
21 Figure 1, we don't see Table 1.

22 ALJ WISSLER: We're looking at Table 1
23 which is part of Exhibit G in CPC's petition.

24 MR. RUZOW: May I make a suggestion,
25 your Honor. If the new exhibit were actually
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 numbered, if we all just numbered them one
2 through the end, it would make it a little
3 easier.

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4 ALJ WISSLER: I would agree.

5 MS. KREBS: Your Honor, I believe we
6 don't have that page.

7 ALJ WISSLER: Although that table is
8 not in my Exhibit 1.

9 MR. KETCHAM: It's in the other one.

10 ALJ WISSLER: So we are looking at
11 Office of Hearings Exhibit 8, Expert's Exhibit
12 G, Table 1.

13 MR. GERSTMAN: That's correct.

14 MR. RUZOW: We found it.

15 ALJ WISSLER: We're with you. My
16 question to you was that in your
17 understanding, what is the date that the DEIS
18 uses for their --

19 MR. KETCHAM: Martin Luther King day
20 is my understanding.

21 ALJ WISSLER: The day.

22 MR. KETCHAM: That's my understanding.

23 MR. RUZOW: It was Saturday of the
24 Martin Luther King day weekend for 2000.

25 MR. KETCHAM: That's what it is, I
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 guess. My point is the other figure, Figure 206
2 1, shows growth characteristics at the
3 Belleayre Mountain over the past -- over the
4 three years from '99/2000 to 2000\2003. It
5 shows there's been a substantial growth in the
6 number of ski days there, 50 percent over that
7 three-year period. I don't have data for
8 2003\2004. Having skied for most of that, I
9 would suspect it's about the same as it was in
10 2002/2003, but there's been a substantial
11 growth. And the point of both of these is
12 that we took counts that showed a 20 percent
13 increase in background travel. That's in
14 establishing a base line at a time that did
15 not -- that was not at a point in time that
16 they had a peak number of skiers there, and
17 that's how I arrived of the 20 percent, plus
18 20 percent, is how I arrived at my assertion
19 that they have underestimated base line
20 conditions by 40 percent.

21 ALJ WISSLER: Do that math for me
22 again. 40 percent because you have 20 percent
23 increase in the number of skiers?

24 MR. KETCHAM: well, they under-counted
25 -- their counts in 2000 were low by
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 20 percent from my counts in 2003, and my
2 counts occurred on a day that did not
3 correspond to a peak ski day which was
4 -- added another 20 percent to the traffic
5 during peak hours along Route 28.

6 ALJ WISSLER: It's your position that
7 the day you chose is more representative?

8 MR. KETCHAM: The day I chose was the
9 day I chose, but I checked it against other
10 peak ski days as shown in this Table 1, and
11 the day I happened to choose was just
12 convenient for being up here and being able to
13 get people out to the field.

14 ALJ WISSLER: But you're suggesting
15 that the day you chose is more representative
16 than the day that was chosen by the Applicant?

17 MR. KETCHAM: It was not a peak day,
18 it was probably representative, but it was not
19 a peak day for the number of skier trips. One
20 of the assertions made in the DEIS is there's
21 only one peak day, and in fact, there are
22 multiple peak days all year-round during the
23 ski season.

24 ALJ WISSLER: What other statements
25 that you make in Exhibit G with respect to the
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

□

1 number of skiers at Belleayre increasing 5,000²⁰⁸
2 a day to 8,000, where did you get that number
3 from?

4 MR. KETCHAM: We met with Tony Lanza
5 several times talking about his plans for

6 expanding the ski area. He suggested that
7 they were going to double the number of ski
8 days over the next several years. He laid out
9 an elaborate plan for expanding parking there.
10 And I thought, 10,000 skiers is a little high
11 so I've been using 8,000 as a sort of 2010
12 target for their expansion program, but based
13 on conversation with him. He had been
14 providing us information and data for current
15 ski activities.

16 ALJ WISSLER: The 40 percent you just
17 spoke about, you get 20 percent increase
18 because of the difference in the days that you
19 choose -- the 15th compared to the number
20 -- the count for the day chosen in the DEIS?

21 MR. KETCHAM: I think the 20 percent
22 was -- I think the 20 percent reflected the
23 fact that there was a three-year difference
24 between the counts. There may have been more
25 skiers. There's been considerable growth at
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1 the ski area.

2 ALJ WISSLER: But that 20 percent is a
3 projection by you based upon your observations
4 on the 15th and the data provided in the DEIS?

5 MR. KETCHAM: The 20 percent is what
6 we observed, and there's another 20 percent on
7 top of that to reflect the multiple worse case
8 days. I'm counting these 4,000 skiers.
9 There's plenty of days when there's 5,000
10 skiers there, which would be a 25 percent

11 increase in the number of ski trips.

12 ALJ WISSLER: It's not a major point
13 but I'm trying to understand. To get to the
14 40, there's, first of all, a comparison of the
15 raw numbers that you have, and then there's
16 the impact of the increased use of Belleayre,
17 the increase in skiers which makes up the
18 other 20 percent?

19 MR. KETCHAM: That's correct. So to
20 go back to the order that I'm working from and
21 these pictures, the next table -- something
22 else that's important in my analysis. It
23 says, "Vehicles Entering and Leaving Belleayre
24 Mountain Ski Center."

25 ALJ WISSLER: This is page 3 of CPC 1;
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 am I right?

2 MR. KETCHAM: Yes. What this is is
3 based on our field counts and observations at
4 the ski resort, this is the number of vehicles
5 leaving the upper and lower driveway of the
6 ski center. I'll show you why this is
7 important in a minute, but this does, again,
8 show you the kind of day that should have been
9 included in the DEIS for a full analysis of
10 this project's impact on the community.

11 The next table shows you the -- is
12 entitled, "Route 28, East of 49A, DEIS." This
13 is a Saturday, estimated temporal distribution
14 without ski traffic. This was estimated
15 simply by subtracting the number of ski trips
16 entering and leaving the ski resort from the

17 earlier table I showed you, showing total
18 trips along Route 28, east of 49A. This is
19 important because this is what I used to grow
20 traffic for future conditions. This is the
21 way this should have been done.

22 ALJ WISSLER: This is the way --?

23 MR. KETCHAM: This is the way that
24 future conditions -- let me tell you what I'm
25 going to do. I'm going to walk you through
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 how I have estimated future conditions in the ²¹¹
2 year 2014, then I'm going to show you what the
3 effects are on the traffic compared to the
4 DEIS.

5 ALJ WISSLER: Not a problem. I need
6 to walk slowly though.

7 MR. KETCHAM: As slow as you want.
8 We'll set this aside for a second because I'm
9 going to go back to it.

10 MR. GOLDSTEIN: That's page 4.

11 MR. KETCHAM: The next issue is
12 establishing the build year. It's important
13 for a bunch of reasons, in particular, for
14 establishing future conditions. In this case,
15 the traffic analysis assumes a 2008 build
16 year, however the Socioeconomic Analysis lists
17 a build year of 2014, and I have tier sheets
18 from the EIS that suggests that there's a
19 12-year construction period, which puts the
20 build year at more like 2018. My analysis is
21 based on the 2014 rather than 2008.

22 ALJ WISSLER: What are you looking at
23 right now for that?

24 MR. KETCHAM: I'm looking at my notes.
25 I have here, however -- if you want, I can
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1 submit this, the sheets that show the -- I 212
2 thought I had them. I can submit them.

3 ALJ WISSLER: You talk to Mr. Gerstman
4 about that.

5 MR. KETCHAM: The tier sheets that
6 show the 2014 date in the Socioeconomic
7 Analysis, I think it's Section 3, page 47, and
8 the Executive Summary also reports a 2014
9 build year. Now, the importance of this is
10 what the DEIS assumes is a 3 percent per year
11 growth rate for traffic, 2 percent background,
12 plus one percent for the ski area. So they
13 adjust their background growth by 27 percent.
14 However, if you take this out to 2014, all of
15 a sudden that background growth increases to
16 51 percent, or double what is going to be
17 included in the DEIS. That is really
18 important.

19 And then we come to the issue of just
20 how much the ski area is going to expand.
21 They've assumed one percent per year, or eight
22 percent over the eight-year analysis period.
23 We already reviewed the data that I got that
24 suggests that the ski resort already expanded
25 by 50 percent, and that they're planning on a
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1 further doubling of ski area, as I said 213

5-27-04 crossroads

2 earlier. I more conservatively assumed that
3 they might reach -- comfortably reach an 8,000
4 limit, which would be a 60 percent increase.
5 Both of those are important in establishing
6 future no build conditions.

7 ALJ WISSLER: Future what?

8 MR. KETCHAM: No build conditions.
9 Conditions for, in my case, 2014 without the
10 Belleayre Resort. You establish the future
11 conditions so you have a basic end switch to
12 really compare project impacts.

13 Now, the next table that is listed,
14 "Route 28, East of 49A, DEIS, February 2014,
15 Saturday Estimated Temporal Distribution
16 without Ski Traffic." What this shows -- I
17 showed you earlier the table showing temporal
18 characteristics without the ski resort. That
19 was for 2003. What I did was grow these
20 numbers by 2 percent per year compounded up to
21 2014, so this table, number 5 --

22 ALJ WISSLER: Where does the 2 percent
23 come from?

24 MR. KETCHAM: I took the table I
25 showed you earlier that I calculated based on
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1 observed characteristics on the roadway.

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2 ALJ WISSLER: Okay.

3 MR. KETCHAM: I subtracted out what I
4 observed to be the condition -- the vehicles
5 entering and leaving the ski area, came up
6 with a 2003 temporal characteristics along

5-27-04 crossroads
7 Route 28, east of 49A without the ski area,
8 then I multiplied that times a growth factor,
9 2 percent per year compounded.

10 ALJ WISSLER: That's my question.
11 Where do you get the 2 percent growth factor?

12 MR. KETCHAM: The DEIS reports that
13 the state says the growth along 28 has been 2
14 percent per year. That's what they used to
15 grow the traffic, that's what I used to grow
16 the traffic. It's consistent with their own
17 figures.

18 Now, what I did in the next table was
19 to -- I'm going to skip some tables here go to
20 7, page 7.

21 ALJ WISSLER: "Vehicles Entering and
22 Leaving Belleayre Mountain Ski Center
23 Approximately 2010?"

24 MR. KETCHAM: That's correct.
25 Assuming 8,000 ski visits. what I did was
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 take the observed data that I reported earlier²¹⁵
2 for 2003, and increased that 60 percent. So
3 that we have now the activity at the ski
4 resort with their full build-out in 2010, I'm
5 assuming that doesn't change by 2014. I then
6 take that and add that data to Table 5. I'm
7 sorry this is so confusing but this is what
8 you do in doing these analyses. The result is
9 Table 8 -- page 8. The result is page 8.

10 ALJ WISSLER: So we start with a base,
11 if you will, at page 5, we add to that the
12 increase from the skiers?

13 MR. KETCHAM: Right.

14 ALJ WISSLER: Then we total all that
15 up at page 8?

16 MR. KETCHAM: That's correct, that's
17 for 2014. All of this, we're talking about
18 future conditions. Future conditions
19 reflecting background growth in traffic, State
20 DOT recommends, and the presumed growth in the
21 activity at the ski resort for a peak day, a
22 worst case condition.

23 ALJ WISSLER: 2014 is an eight-year
24 build-out?

25 MR. KETCHAM: The eight-year built-out
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1 that they report in the Socioeconomic section²¹⁶
2 of the DEIS.

3 ALJ WISSLER: which in your view won't
4 begin until 2006?

5 MR. KETCHAM: Or later.

6 ALJ WISSLER: I understand.

7 MR. KETCHAM: Let's presume it starts
8 in 2006, that's what the DEIS says when it
9 will start, and the DEIS says it will take
10 eight years or as much as 12 years, but I'm
11 assuming eight years -- not two years as was
12 assumed in the traffic section. So we get
13 this -- what is representative, Saturday, ski
14 day, peak ski day, traffic impacts. Now, we
15 need then -- this gives us a future no build
16 condition. Now, we need to estimate what
17 impact the proposed Belleayre Resort is going

18 to have on the traffic, the surrounding
19 traffic area.

20 what they did in the DEIS was to use
21 data taken from the Institute of Traffic
22 Engineers, Transportation Engineers, Trip
23 Generation Manual. This is it right here
24 actually. This is the sixth edition or the
25 seventh edition out now, but it's not too
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 different. For what we're talking about here,²¹⁷
2 the three sets of data they took out of this
3 is not different. What they did was to take
4 average conditions that are reported for three
5 different land use types; for single family
6 detached houses, for recreational homes and
7 for hotels. Now, they used average
8 conditions. What ITE provides is a range of
9 conditions from a low to a high, then they
10 take a medium. If you look at the data, what
11 this shows is that the median is pretty close
12 to average -- to the low number.

13 This is supposed to be a really classy
14 operation, five star operation. One of the
15 things that you see in here, for example, for
16 recreational homes, which they use for certain
17 of their --

18 ALJ WISSLER: Are you reading to me
19 from the manual?

20 MR. KETCHAM: No, I'm not, I'm just
21 turning pages. You want to see the manual?

22 ALJ WISSLER: If there are pages of it
23 that you want to enter, you need to do that.

24 MR. GERSTMAN: At some point we might
25 do that.
□ (BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 ALJ WISSLER: Even though it's an 218
2 Issues Conference, I don't want you reading
3 from a document that I'm not going to have in
4 front of me when I make the issues ruling. So
5 if that's part of your presentation, I and all
6 counsel need copies of that page.

7 MR. GERSTMAN: Could we have one
8 minute, your Honor?

9 ALJ WISSLER: Sure.

10 (10:22 A.M. - BRIEF PAUSE.)

11 MR. GERSTMAN: Your Honor, if you turn
12 to page 9 of CPC 1 -- pages 9 and 10. We'll
13 be glad to provide you with the copies of the
14 pages from the ITE manual that provide the
15 basis for the information that's already been
16 provided by Mr. Ketcham. We thought he would
17 be able to interpret it and provide you with
18 that information in his testimony, but if we
19 need to provide that, we certainly will.

20 ALJ WISSLER: If it's the basis for
21 the numbers that are shown in pages 9, 10 --

22 MR. KETCHAM: That's correct, they
23 were taken directly out of this manual.

24 (Indicating)

25 ALJ WISSLER: It will be helpful for
□ (BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 me to have that. 219

2 MR. GOLDSTEIN: We will provide that,

3 your Honor.

4 ALJ WISSLER: Thank you.

5 MR. KETCHAM: If you look at 9 and 10,
6 what I've done here is to present what's in
7 the DEIS, present what is reported in the ITE
8 manual itself, and compare the two. And what
9 I've done on the bottom of the second page is
10 to sum up what they report as worse case
11 conditions versus what is a true worse case
12 condition based on ITE rates would produce; or
13 about double or more than double, maybe two
14 and a half times what the -- the number of
15 trips that they have reported on in the DEIS.
16 What's really important here is that a total
17 number of daily trips that are generated by
18 ITE information are not too different from
19 min. to max.

20 ALJ WISSLER: Explain that to me.

21 MR. KETCHAM: well, it means that the
22 data shown here for a "High trip generation
23 rate" for a particular land use suggests that
24 -- and in careful reading of the ITE Manual --
25 that a higher proportion of trips are
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 occurring during peak hours for the so-called²²⁰
2 high trip generation land use characteristic.
3 I think that probably is representative of
4 what happens with a project like this, which
5 is a four or five-star project where -- classy
6 operation -- where you might get higher
7 peaking.

8 One of the things that are not

9 accounted for by ITE are residential units
10 that are two, three, four bedrooms. They
11 average them out. When you get a lot of
12 properties that are -- whether they're private
13 or whether they're the kind that are described
14 in this project -- where you have four
15 bedrooms, you're going to have lots of guests.
16 I know we have lots of guests up here, and
17 they all drive separately. And so they're
18 going to generate a lot more trips than your
19 average rate would indicate out of ITE, and
20 that's what I've tried to present here.

21 MR. GERSTMAN: Before you go on, Mr.
22 Ketcham, let me ask you about the use of the
23 -- again, to reiterate, or to explain further
24 the use of the median rates in the DEIS based
25 upon the ITE land uses, and why you believe
□ (BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 that this particular project will generate a ²²¹
2 greater number of trips than is actually
3 reported. Could you explain that again?

4 MR. KETCHAM: I'll restate that. One
5 of the things that ITE emphasizes very
6 strongly is these are only the best that they
7 get. I'm going to divert a little bit, but
8 what happens with this manual is that all this
9 data is collected on a volunteer basis. Folks
10 like myself fill out a 14-page form that says
11 that they have done data collection and such,
12 and here are the results. And they factored
13 this into this manual. And for some of these

14 things, they only have two points on a curve.
15 They only have two sets of data that they're
16 attempting to make some estimate of the trip
17 generating characteristics of a project.

18 So ITE emphasizes, they say if you can
19 go out and get raw data from half a dozen
20 representative properties, it's much better to
21 use that. I know they got some data from one
22 location, Snow Mountain -- Snow Mass. [sic]
23 I don't remember the name. They did get some
24 data. They didn't use it. But they should
25 have gotten a lot more data, like they should
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1 have collected a lot more traffic data for
2 base line characteristics. And I do know that
3 somebody has put some ATR counters out there
4 now, so maybe they're doing that. You're
5 going to have to repeat your point.

6 MR. GERSTMAN: The use of the traffic
7 generation numbers in the DEIS relies on the
8 median numbers that are set forth in the ITE.
9 You have suggested to the judge that those are
10 inappropriate for the project that is being
11 proposed for this location. I was asking you
12 to explain how come the peak trips for certain
13 hours in your estimation would be much greater
14 than is reported in the DEIS.

15 MR. KETCHAM: It's my opinion that
16 they have underestimated the trip generation
17 characteristic based on the numbers that are
18 cited in the ITE and based on the
19 characteristics of a facility like this.

20 ALJ WISSLER: Would you go with me to
21 page 9 of CPC Exhibit 1.

22 MR. KETCHAM: (Indicating).

23 ALJ WISSLER: Take the first top
24 section there.

25 MR. KETCHAM: Yes.
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 ALJ WISSLER: Walk me through that. 223

2 MR. KETCHAM: It says, "DEIS lodging
3 units." Says 168, then it gives the rate per
4 lodging unit that vehicle trips will be
5 generated both for weekdays, Saturdays for the
6 a.m., p.m -- weekday peak hours, and Saturday
7 peak hours.

8 ALJ WISSLER: Again, when we're
9 talking about peak hours, we're talking about
10 8:30, 9:30 in the morning, and 4:30, 5:30 in
11 the afternoon?

12 MR. KETCHAM: Basically. The morning
13 peak hour varies, but I think it's 8:30 to
14 9:30 in this case. They vary from project to
15 project.

16 ALJ WISSLER: What is Dir. split, what
17 does that mean?

18 MR. KETCHAM: If you look at the next
19 one, it says a directional split, and they
20 didn't give a directional split. But the ITE
21 recommends a directional split based on their
22 various observations. In this case, for
23 recreational homes, the rates that I show
24 there are based on two studies, just two

5-27-04 crossroads
studies. So it's a pretty limited data base.
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1 ALJ WISSLER: What does the term
2 directional split mean?

3 MR. KETCHAM: That means the number of
4 vehicles that are entering -- in this case, it
5 says 49 percent in, 51 percent out. These
6 rates calculate -- if you go down to the next
7 part of that section under recreational homes,
8 says 260 recreational homes. You'll see that
9 for a.m. peak hour, there would be -- under
10 average conditions, you're generating 50
11 trips.

12 ALJ WISSLER: Where is that?

13 MR. KETCHAM: If you go to the a.m.
14 peak hour, go down that column, ten lines
15 down, says, "Recreational homes, average 168,
16 531, 516, 50." And for a full day, they're
17 assuming 50 percent in, 50 percent out, but
18 for the hour for the a.m. peak, they're
19 assuming there 49 percent entering the site,
20 51 percent exiting the site. They mean
21 roughly 25 vehicles entering, 25 vehicles
22 exiting.

23 ALJ WISSLER: When we look at vehicle
24 trips up at the top --

25 MR. KETCHAM: At the top is rates.
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 ALJ WISSLER: 3.16 vehicle trips?

2 MR. KETCHAM: Per dwelling unit per
3 day.

4 ALJ WISSLER: What does that mean? Is

5 a trip in and a trip out two trips?

6 MR. KETCHAM: It's either a trip in or
7 a trip out.

8 ALJ WISSLER: It's a one-way passage
9 some way, either in or out?

10 MR. KETCHAM: That's correct. So I
11 did this for each of the -- pages 9 around 10,
12 I did this for each of the land use types that
13 they report on. There's a lot of missing
14 pieces. They have a lot of restaurants in
15 here which are dealt -- are not really dealt
16 with directly. Restaurants typically generate
17 a lot of trips, especially if they're
18 destination restaurants. We don't have a lot
19 of great restaurants around here, so we might
20 welcome some great destination restaurants and
21 lots of people might use them. So that's not
22 even a part of this calculation.

23 ALJ WISSLER: So if you use the resort
24 numbers from the ITE of the successful
25 resorts, you're saying on top of that, you
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 also need to put in a count for restaurants
2 that may be at this resort and may be
3 independently patronized apart from the resort
4 facility?

5 MR. KETCHAM: Yes.

6 ALJ WISSLER: So there's an added
7 factor there?

8 MR. KETCHAM: There could be
9 additional trips associated with destination

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10 restaurants.

11 ALJ WISSLER: Have you made any
12 estimation with respect to that?

13 MR. KETCHAM: No, I haven't, but it
14 would be in addition to what I'm reporting
15 here in the worst case.

16 ALJ WISSLER: Okay.

17 MR. KETCHAM: Understand that they may
18 or may not occur during a -- the peak hours
19 that we're talking about. Destination
20 restaurants typically are not breakfast
21 places. They may be lunch, they certainly are
22 dinner, but they might occur after your peak
23 ski hour, 4 to 5 p.m. But it adds to the
24 roadway congestion, and I can tell you, since
25 I drive the road frequently, Route 28 can be
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 crowded -- not just from 4 to 5 -- 5 to 6, 6²²⁷
2 to 7. So it adds to the complexity of this
3 project's impact.

4 ALJ WISSLER: You did not do that
5 analysis, correct, for the restaurants?
6 You're saying the DEIS doesn't show that
7 either?

8 MR. KETCHAM: I didn't do it and the
9 DEIS ignored it. I have just been reminded
10 that while ITE does address golf courses,
11 there is nothing in ITE about ski resorts
12 whatsoever. So we don't have a data base that
13 reports on trip generation, generating
14 characteristics of a complex like the
15 Belleayre ski center or associated activities.

16 These rates are taken out of context of a
17 concentration of activity like that.

18 ALJ WISSLER: I've recently been given
19 to understand that Belleayre is used as a
20 concert venue during the summer months?

21 MR. KETCHAM: Yes.

22 ALJ WISSLER: Did you consider that
23 factor in your analysis; and to your knowledge
24 was that factor considered by the DEIS?

25 MR. KETCHAM: Well, they considered
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1 -- yeah, they did. They considered peak
2 period, leaf peaking times, and I guess that
3 sort of substitutes for an event like that,
4 but I personally concentrated on ski season
5 since that's the worst traffic period. I
6 really got nothing to say about the other time
7 periods.

8 MR. GERSTMAN: In your estimation, did
9 the DEIS evaluate the issue of vehicle trips
10 generated by the summer concerts at the
11 Belleayre Ski Center?

12 MR. KETCHAM: Not specifically, no.

13 MR. GERSTMAN: Thank you.

14 ALJ WISSLER: Before we move on, going
15 back to page 9 here, that -- those estimations
16 and so forth for vehicles, residential units
17 and so forth, they would have year-round
18 applicability?

19 MR. KETCHAM: Sure. This is not
20 specific to a ski weekend, this is specific to

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what is proposed --
ALJ WISSLER: But your earlier
concerns addressed traffic impacts --
MR. KETCHAM: During ski season.
ALJ WISSLER: -- during ski season.
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MR. KETCHAM: In terms of trip
generation, these same numbers of trips
-- there's nothing in ITE that differentiates
seasons. They just report on average and peak
trip generating characteristics of a variety
of land uses, irrespective of season.
ALJ WISSLER: I guess a question that
I have is: When you use these figures and
talk about 2 percent growth rate and so on,
what's proposed here is a four-season
facility?
MR. KETCHAM: That's correct.
ALJ WISSLER: So I'd like, if you
could, to tell me how impacts will be felt on
a year-round basis as opposed to just -- do
you understand what I'm saying?
MR. KETCHAM: Sure.
ALJ WISSLER: You're saying it's going
to be bad in the wintertime, but is it going
to be as bad in the summertime?
MR. KETCHAM: In my judgment, no.
There's two issues here. First of all, this
project, by my best estimate, will attract
about a half million cars a year. There's a
half million cars entering, half million
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1 leaving, plus making various trips during the
2 day in addition to that.

3 ALJ WISSLER: That's over the course
4 of an entire year?

5 MR. KETCHAM: That's an entire year.
6 It turns out that traffic operating on Route
7 28 passing County Road 49A is about a million,
8 maybe a million and a half a year. So we're
9 talking about a project that could double the
10 amount of traffic on an annual basis; double
11 the amount the traffic, at least at that site
12 along Route 28.

13 ALJ WISSLER: Are those volumes to
14 your knowledge broken out by DOT or anybody
15 else on a monthly or seasonal basis?

16 MR. KETCHAM: They could be, they
17 should be. I don't have them myself. But I
18 showed you a table already that shows the
19 volume along 28 without the ski resort. And
20 what I did was just to rough-out the amount of
21 traffic along there as to take the average
22 traffic at that location, along 28, multiply
23 it out by 365, to get a rough idea of how much
24 traffic moves along 28. And it's on the order
25 of a million, million and a half vehicles in
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 both directions a year. So this is a
2 substantial impact.

3 I know that the DEIS says it's only
4 using 30 percent of the capacity of the road
5 -- I'll get to this in a minute -- but if you

6 look at travel behavior along 28 between
7 -- I'm getting ahead of myself -- between the
8 project site and I-87, I-87 -- I think near
9 I-87, they're moving 13, 14,000 vehicles a day
10 versus, say, 3,000 here at the site. So the
11 proportional impact as you move east of this
12 project is going to be substantial, and it's
13 just not accounted for in the DEIS. But let
14 me go back to what I'm trying to present here.

15 If you go next to page 11. Again,
16 this is part of my original submission. I
17 have summed up what is in the DEIS versus what
18 I think, in fact, will happen, taking into
19 account that the DEIS is targeted at 2008 and
20 I'm 2014. So what I presented here are the
21 morning and evening volumes. These are the
22 total volumes along -- just for comparison
23 purposes -- along Route 28 East of -- be
24 consistent now -- east of County Road 49A.

25 What they measured is -- their base
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 line is 436 vehicles in the morning and 687 in²³²
2 the evening. They grow that by 27 percent to
3 550 in the morning and 870 in the evening, and
4 then add their project impacts, as you can see
5 there, so they get a total in 2008 of 752 in
6 the morning, and the evening is far worse,
7 it's 1,062. This represents a 72 percent
8 increase in volume from base line by 2008
9 according to the DEIS in the morning, and a
10 55 percent increase in the evening. I'm doing
11 this a little differently but it's all listed

12 here. I calculated 519 vehicles in the
13 morning on February 15th, 2003, and 850, 853
14 in the evening, and the two percentages,
15 19 percent and 24 percent, are the
16 differential -- the difference between what
17 they reported in the DEIS.

18 I then grow that number -- my number,
19 by 2 percent per year compounded to 2014.
20 That adds 126 in the morning and 208 in the
21 evening. I then add the impact of the growth
22 of Belleayre Mountain, which was left out of
23 the DEIS entirely, and that adds 153 in the
24 morning and 229 in the evening. Then I am
25 assuming the project impact that they have
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

□

1 reported is double based on what I've already ²³³
2 said. There are other reasons that I'll get
3 into in a minute where I think a lot of
4 traffic has simply been left out of the DEIS
5 analysis. So that brings me to 2014, total of
6 1,202 in the morning and 1674 in the evening.
7 At the bottom, that indicates that my volumes
8 are -- overall for Route 28 are 60 percent
9 higher in the morning and 58 percent higher in
10 the evening. I think that is a realistic
11 worse case scenario during a ski day for this
12 project.

13 Now, to move on. If you go to page
14 12, here I'm applying all this stuff. What
15 page 12 shows is the resulting temporal
16 characteristics -- this would be called a no

17 5-27-04 crossroads
18 build condition -- but this shows it not just
19 for a single hour but for the 24-hour period
20 of vehicles moving along 28, east of 49A.
21 Again, taking all the information, I'm
22 compiling all the information I just presented
23 and creating a temporal characteristic for
24 2014 without this project. You can see the
25 resulting characteristics there.

□ I want to touch briefly on pages 13
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 and 14.

2 ALJ WISSLER: Briefly define the term,
3 temporal distribution.

4 MR. KETCHAM: 24-hour, temporal. In
5 this case, it's showing you the vehicles going
6 southbound and northbound and the total of
7 both directions, hour by hour.

8 I just want to touch briefly on page
9 13 and 14. What I have done here is attempt
10 -- there's no data like this in the DEIS.
11 This is my first cut at -- first stab at
12 making sense out of the project for each of
13 the locations, and so what this shows is a
14 guess at the temporal characteristics of
15 vehicles moving into and out of each of these
16 sites. This is what should have been
17 presented in the DEIS. This needs to be
18 obviously adjusted by the Applicant for what
19 they feel is important but -- not important,
20 what they feel is a reasonable estimate on
21 their part based on what they understand to be
22 the operating characteristics of facilities

23 like this, but this is my best judgment.

24 The importance of this is over to the
25 right on these tables, says "Accumulation".
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 These are the number of vehicles that would be²³⁵
2 on-site at any one time. This is what
3 establishes your parking limits. For example,
4 for Big Indian Plateau, it looks like they're
5 going to have about 620 parking spaces to
6 accommodate everybody who would attend. This
7 is assuming an 85 percent occupancy, it's not
8 a hundred percent occupied.

9 ALJ WISSLER: You get to 620 because
10 for that 12 to 1 p.m. period, that's the
11 highest accumulation in that column there?

12 MR. KETCHAM: That's correct. All
13 this is is a calculation of vehicles entering
14 and vehicles leaving. The 383 at the top are
15 the number of people who would be staying
16 overnight on a continuing basis. It's an
17 estimate on my part. It's the kind of
18 information that needs to be provided in the
19 DEIS so we have a clear understanding of
20 whether or not they have sufficient parking.
21 There's nothing provided that I can find in
22 the DEIS about parking, other than they're
23 providing 170 off-site spaces for employees,
24 and that for spill-over events, they'll use
25 their lawn to park cars. But I have no idea
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 how much parking is being provided at the

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2 site.

3 Assignments. They have -- they
4 report that 97 percent of the vehicles that
5 are entering or leaving both sites will be
6 coming from and going to the east. I don't
7 know how they get this. They say on the one
8 hand it's based on origin destination surveys
9 that are not reported. They also say that
10 it's based on existing travel behavior. well,
11 existing travel behavior suggests, at least
12 for Belleayre Ski Resort, that about
13 35 percent of skiers come from and return to
14 west of the site. So I don't know how they
15 get this but in their favor, it does present a
16 worst case along Route 28, but I don't know
17 how realistic it is.

18 Then in terms of trip assignments, we
19 come to the issue of shuttle buses during ski
20 times. I have -- first of all, if you look at
21 -- I've been asked to explain trip
22 distribution and assignments. what they have
23 done for -- and is presented very clearly in
24 the DEIS, they spell out how for each of the
25 project sites, how vehicles will be
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1 distributed on at least the nearby roadway
2 network as a proportion of total trips. Then
3 they multiply that times their trip generation
4 to get basically the assignment of real trips.
5 The distribution is all within a couple miles
6 of the site, however, and it really does not
7 -- well, actually no, I'm sorry, I'm wrong

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8 about that. It does go down to 214 and 42,
9 and they have some distribution there.

10 I am not in agreement with some of
11 their assignments. For example, for the 21
12 private homes at the top of, I guess
13 wildacres, they have 40 percent of the trips
14 heading into the boondocks. I don't know how
15 many people have driven that, but you can get
16 lost going down there. I've driven it plenty
17 of times going up hiking. It takes hours to
18 find your way out of it. So I don't know
19 where these vehicles are assigned to, perhaps
20 everybody up there is going hiking. It
21 doesn't make sense.

22 Use of Route 47 through the mountains
23 to get -- on a snowy winter day to get to
24 Route 17, I think that's the route that they
25 assign a substantial amount of traffic to. It
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 doesn't make sense. Those roads are almost
2 impassible in the wintertime.

3 I disagree with some of the
4 assignments, but most distressing is what
5 happens to shuttle buses, because if you look
6 at their assignments, you have -- both shuttle
7 buses and -- I get these projects confused.
8 First of all, the shuttle bus operation, if
9 you look at the next -- they're assuming
10 80 percent of all skiers are going to use the
11 shuttle buses. I did a quick calculation.
12 It's the one actually that's in the -- the

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13 5-27-04 crossroads
sheet that is independent of the package. I
14 guess is marked number 2.

15 MR. GOLDSTEIN: Exhibit 2.

16 MR. KETCHAM: What I did there, based
17 on my experience at Belleayre, because I use
18 the shuttle buses, and the distance that they
19 would travel based on the routes that are
20 provided, I worked out a round-trip schedule
21 for three different scenarios, and they take a
22 long time to make a trip. For the first one,
23 one-way trip, all stops is about 80 minutes.
24 So the average travel time for users would be
25 about half of that, 40 minutes. Yet with that
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1 length of travel time in a project, I think of²³⁹
2 this quality and likely cost, I'm not so sure
3 that folks are going to want to stand and sit
4 on -- wait up to 40 or 50 minutes to get from
5 their hotel to the ski slopes -- at least not
6 80 percent of them.

7 My first problem is I'm not convinced
8 that 80 percent will use it. Maybe
9 50 percent, I don't know, but I think that
10 this is the kind of analysis that should have
11 been done to make a case of whether or not
12 they can move people through that network of
13 roads in any efficient way. Maybe they used
14 15 buses instead.

15 Now, the buses. If you look at their
16 assignment of trips, in the morning they have
17 some vehicles going into the ski area but none
18 leaving during the peak hour. Shuttle buses

19 would normally go in and go out and continue
20 their rounds. They have just nothing leaving
21 that's been assigned in the morning, and a
22 similar pattern in the evening. They have
23 vehicles that leave but nothing that returns.

24 Moreover, from Big Indian, if you do
25 the calculations, there may be 50 or a hundred
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1 people that actually drive to these sites, and²⁴⁰
2 they're nowhere to be found. And it's my
3 guess that they're leaving out maybe 100
4 vehicles during the morning and evening peak
5 hours that have disappeared. I can't find
6 them. And logic dictates that they have to be
7 there somewhere.

8 The DEIS says about 40 percent of the
9 folks, maybe half, are going to ski. And the
10 question then you're left with is what do the
11 other 50 percent do? Do they stay at the
12 resort? Do they travel around? There's no
13 evidence of people traveling to -- here to
14 Margaretville to shop or perhaps traveling to
15 other ski centers around the area. We have
16 four others that people might want to try out.
17 They're just -- either that was an oversight
18 or what, but they're missing.

19 Let me -- before I continue, I just
20 wanted to briefly summarize what I've said so
21 far. Before I do that, I have to have a drink
22 of water. First, I talked about base line
23 conditions and the fact that I think they

24 5-27-04 crossroads
under-reported base line by 40 percent.

25 That's important because that multiplies out
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 for future conditions. So they've
2 underestimated future conditions on that basis
3 alone.

4 Secondly, I said the build year, 2008,
5 is simply wrong. It's not consistent with the
6 rest of the DEIS. It should be 2014, or
7 perhaps even 2018.

8 They have not accounted -- they have
9 not accounted for the expansion, the planned
10 expansion of Belleayre Ski Center. Now, maybe
11 that's why they chose 2008, because the ski
12 center in all likelihood won't be fully
13 expanded before 2008.

14 Their trip generation characteristics
15 are not worse case for a project of this scale
16 and quality, and I think they have
17 underestimated the project's impacts in that
18 regard. There's no basis described within the
19 DEIS for how trips are assigned to the area.
20 There's no justification for 97 percent
21 entering and leaving from the east.

22 ALJ WISSLER: From the west?

23 MR. KETCHAM: 97 percent of all trips
24 generated by the project are assigned to Route
25 28 to east of the site. In other words, 97
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1 percent come from the east and 97 percent
2 return to the east. I don't know how they get
3 that. They need to explain that.

4 Then there's the issue of where the
5 shuttle trips go, have disappeared to, and
6 where private -- where guests who have decided
7 to drive to the ski area are. They just don't
8 seem to be accounted for. So that's where I
9 am so far, and that's -- there's more. I have
10 more to talk about.

11 MR. GERSTMAN: Let me interrupt for
12 one second. In Office of Hearings Exhibit 8,
13 attached to your report is a report on transit
14 use in resort villages in North America and
15 Europe. That was prepared by Konheim &
16 Ketcham for Craig Manning Associates and the
17 LA Group concerning Lake Placid
18 transportation?

19 MR. KETCHAM: Right.

20 MR. GERSTMAN: would that report have
21 equal applicability to the proposed project
22 here?

23 MR. KETCHAM: Yeah, it would. This
24 was a report that we did with Chuck Manning.
25 We did -- they did a terrific job developing a
□ (BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 transportation plan for Lake Placid. We were²⁴³
2 subcontractors on that, and we basically
3 looked at transit opportunities for Lake
4 Placid by looking at transit use at ski areas
5 throughout the country and Europe. We were a
6 little bit astonished that that wasn't used
7 and referenced in the DEIS because it was
8 -- with the exception of us -- it was the same

9 team of consultants who did this job as well.
10 Yeah, it's applicable. I think it's actually
11 -- actually we were reading through the final
12 report last night and it's right on target for
13 this project.

14 ALJ WISSLER: So it's applicable
15 because there was a level of analysis that was
16 done in the Lake Placid case that you're
17 saying wasn't done here?

18 MR. KETCHAM: Right. What happened in
19 Lake Placid, they took a real hard look at
20 transit improvements, using shuttle buses,
21 among other things, and that hard look hasn't
22 been made for this project.

23 ALJ WISSLER: The answer to my
24 question is yes?

25 MR. KETCHAM: The answer is yes.
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 MR. GERSTMAN: Let me ask you a
2 question about the Ferradino Report submitted
3 by the planning board of the Town of
4 Shandaken. Have you had an opportunity to
5 review that report?

6 MR. KETCHAM: Yes, I have.

7 MR. GERSTMAN: What are your
8 conclusions with respect to that report?

9 MR. KETCHAM: I agree with much of
10 what's included in there. Basically that
11 report did a line by line assessment of the
12 traffic analysis. I haven't done that. They
13 have looked at a lot of issues that I haven't
14 looked at. But I have read their report and I

15 have obviously read the traffic analysis for
16 -- transportation analysis for this project,
17 and I agree with most of what they said.
18 That's not giving you much information.

19 We are now to mitigation. There is
20 not a lot -- mitigation of project traffic.

21 MR. GERSTMAN: Your Honor, if we could
22 talk about logistics for a minute. It's
23 11 o'clock. We can find out how much time Mr.
24 Ketcham needs to conclude, and maybe how much
25 time the project sponsor needs to rebut so we
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 can advise our experts who are supposed to be ²⁴⁵
2 meeting us at 12.

3 ALJ WISSLER: If Mr. Ketcham is going
4 to talk about mitigation and then conclude
5 -- there's still an Exhibit I in your
6 application that I need to have him walk
7 through for me regarding level of service at
8 intersections. We haven't done that yet. If
9 I understand your initial opening remarks,
10 there were concerns you have about the Route
11 28 corridor?

12 MR. GERSTMAN: That is also correct.

13 ALJ WISSLER: And I believe Mr.
14 Ketcham makes a reference to impacts this
15 project could have as far away as the New York
16 State Thruway. I would like to hear some
17 expansion on that. If you want to do
18 logistics --

19 MR. KETCHAM: I can talk about level

20 of service if you want to talk about that now.

21 ALJ WISSLER: How much time do you
22 need?

23 MR. GERSTMAN: Approximately a
24 half-hour, 45 minutes.

25 ALJ WISSLER: Mr. Ketcham, are you
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 going to be available to us on another day? 246

2 Let me put that differently. You need to be
3 available to us on another day.

4 MR. GERSTMAN: Is it your intention to
5 break?

6 ALJ WISSLER: It's my intention -- as
7 a practical matter, unless there's some
8 objection from the Applicant and staff, we'll
9 allow Mr. Ketcham to complete his presentation
10 on your behalf and any response -- we can take
11 the response from the Applicant and staff at
12 some subsequent time. I'm not -- I don't know
13 how else to do this.

14 MS. BAKNER: I'm sorry, we do have a
15 scheduling problem with that approach because
16 Mr. Manning is not available to us during the
17 other weeks that we have scheduled for the
18 Issues Conference.

19 ALJ WISSLER: Then we can reschedule
20 the site visit.

21 MS. BAKNER: That may be better, your
22 Honor, and complete traffic today if you want
23 to do that.

24 MR. GERSTMAN: We have two experts who
25 have stayed over and are available for the

1 site visit.

2 MS. BAKNER: We made it very clear
3 from the beginning, Marc, that Chuck is
4 available in a limited window.

5 MR. GERSTMAN: And I also made it
6 clear, Terresa, that our experts cost us
7 resources that we do not have. To have our
8 experts stay over, to make extra trips that
9 they don't need to make is of great concern to
10 us.

11 MR. KETCHAM: It would be really
12 convenient for me to be here on a Friday or
13 Monday if you have to continue.

14 MR. RUZOW: Our limited windows for
15 continuing -- we had the week of the 8th
16 through 11th and 22nd through 25th. Mr.
17 Manning, you are scheduled during those weeks?
18 You were not available?

19 MR. MANNING: The first week I'm not
20 available, and the Monday of the following
21 week --

22 MR. RUZOW: The week of the 14th, we
23 had a problem with it. I'm just trying to see
24 what is available as a practical matter.

25 ALJ WISSLER: If it comes down to me
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 making the choice here, I'm going to finish
2 Mr. Ketcham this morning from CPC's
3 perspective, and then we'll take your response
4 at some later date. We'll -- I really want to

5 5-27-04 crossroads
get the site visit done.

6 MR. RUZOW: We all do.

7 (11:07 - 11:31 A.M. BRIEF RECESS
8 TAKEN.)

9 MR. GERSTMAN: I refer your Honor to
10 various sections of the DEIS where the 2014
11 date for construction period is identified.
12 It's page 3-196, talks about eight-year
13 construction.

14 ALJ WISSLER: This is sections of the
15 DEIS?

16 MR. GERSTMAN: Pages. 3-196, 3-197.
17 The duration of the construction period is
18 discussed as the period from four to eight
19 years, that's on page 2-54.

20 There are also references to various
21 build years on Table 7-2. There's also an
22 eight-year construction period referred to in
23 the Executive Summary in Roman (iv). And also
24 Executive Summary 14 -- withdraw the last one.

25 Your Honor, we also want to address an
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1 issue that's come up in connection with the
2 interpretation of Table 1, and use of the
3 Martin Luther King holiday as the base line
4 years. Mr. Ketcham, would you address that.

5 MR. KETCHAM: Yes. It's been brought
6 to my attention that I may have misspoke about
7 this. I mentioned we had collected data on
8 February 15th, a Saturday, in which the
9 Belleayre Ski Center had observed about 4,000
10 skier trips. And for the Martin Luther King

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11 weekend, that Saturday they had 4700 skier
12 trips, which was about 15 percent greater than
13 what occurred on the day we did data
14 collection. So our data was obviously down. I
15 actually said that earlier, that we had
16 collected data on a low day, that's why I
17 suggested there would be 20 percent more skier
18 traffic on a peak day.

19 This may be interpreted that the data
20 that was collected on the Martin Luther King
21 weekend for the DEIS may have accounted for
22 that. I don't know because I don't have data
23 for the number of ski visits on that day for
24 comparison. But my assertion that there was a
25 -- one, an observed 20 percent -- my observed
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1 traffic day is 20 percent greater than they ²⁵⁰
2 report in the DEIS. And then I suggested on
3 top of that, there would be another 20 percent
4 if there was a 5,000 skier day event rather
5 than a 4,000 skier day event, I think still
6 holds. I don't want you to misinterpret the
7 fact that it says here for Martin Luther King
8 day, it's 2928 visits. I don't think it makes
9 a difference but it could be confused and I
10 don't want it to be confused.

11 I have two other clarifications. On
12 the various tables I have been talking about
13 showing temporal characteristics, there is a
14 northbound and a southbound shown on each of
15 those. Those, in fact, are -- the southbound

16 would be eastbound and the northbound would
17 be --

18 ALJ WISSLER: What are you
19 specifically referring to?

20 MR. GOLDSTEIN: Page 2 of CPC Exhibit
21 1, for example, your Honor.

22 MR. KETCHAM: I believe I'm using the
23 nomenclature that's in the DEIS.

24 ALJ WISSLER: Southbound and
25 northbound?

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1 MR. KETCHAM: Northbound would be
2 westbound, southbound would be eastbound. I
3 just want to make sure there's no confusion
4 there.

5 ALJ WISSLER: North is west and south
6 is east?

7 MR. GOLDSTEIN: That's correct, your
8 Honor.

9 MR. KETCHAM: Again, I just don't want
10 any -- that to be misconstrued. I just want
11 to reinforce a point that was also made
12 regarding -- that you brought up about ITE,
13 trip generation rates. They are -- they're
14 not seasonally adjusted, they are for any time
15 period, and for a project like this where
16 there are strong seasonal characteristics,
17 those trip rates need to be adjusted up, and
18 that is what I have done. But I just wanted
19 to emphasize that.

20 ALJ WISSLER: Let me ask you this:
21 Applying the same -- applying the same

22 analysis and so forth, but knowing what the
23 totals are for the Martin Luther King day that
24 was used in the DEIS, if you want to submit
25 something that recalculates the numbers, I'll
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1 let you do that.

2 MR. KETCHAM: My numbers?

3 ALJ WISSLER: Yes.

4 MR. KETCHAM: I don't think my numbers
5 would change because we're talking about two
6 different years. I don't know what the number
7 of skiers were on Martin Luther King Saturday
8 weekend in 2000 when their data was taken, I
9 know what mine were.

10 ALJ WISSLER: I'm sorry, did I -- I'm
11 not understanding. What was the correction
12 you wanted me to know about?

13 MR. KETCHAM: It's just making sure
14 that its understood that when I referred to
15 that table, I wasn't referring to Martin
16 Luther King day which was the actual Monday
17 where there were 3,000 skiers, I was talking
18 about the fact that we took counts on
19 February 15th, where there were 4,000 skiers,
20 and on that day we reported 20 percent more
21 traffic than is reported on, as a peak
22 condition in the DEIS. Then I said further
23 that because the resort has exhibited -- the
24 ski center has exhibited upwards of 5,052
25 maximum skiers, that that represents another
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1 25 percent of skier trips to the area, and I
2 was correcting for that. That's where I get
3 the 40 percent increase. I don't want to
4 make --

5 ALJ WISSLER: So that would remain
6 valid?

7 MR. KETCHAM: Yeah, I don't think my
8 numbers are any different. I just don't want
9 anybody wrongly interpreting how I used this
10 information.

11 ALJ WISSLER: Okay.

12 MR. KETCHAM: I want to now go to
13 level of service calculations, and just
14 briefly discuss this. And I want to just work
15 from page -- I guess that's 15 and 16.
16 Throughout the DEIS, they've used standard
17 procedures for calculating service levels for
18 the operation of Route 28 and of those roads
19 that are servicing both of the sites. By
20 standard procedures, I'm talking about the
21 Highway Capacity Manual which reports on
22 service levels in terms of the amount of delay
23 -- it's like a report card that you would get
24 when you have reports on the amount of delay
25 that motorists would suffer as traffic gets
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1 worse. They reported on some fairly good
2 service levels except at the entrance of the
3 ski resort during peak periods.

4 ALJ WISSLER: For the sake of the
5 record, I am looking at CPC Exhibit 1, pages
6 15, 16, 17 -- 16 and 17, and you also have

7 Exhibit I in your application?

8 MR. KETCHAM: Could I come look?

9 ALJ WISSLER: Sure. I need you to
10 walk me through Exhibit I. I need to have it
11 in front of me when you do it.

12 MR. GOLDSTEIN: We'll see if we can
13 find our copy of that.

14 ALJ WISSLER: So is CPC 1's exhibit
15 incomplete? Does it need those extra pages of
16 that Exhibit I?

17 MR. KETCHAM: Let me talk about what
18 you have in front of you.

19 ALJ WISSLER: Part of it is part of
20 CPC Exhibit 1?

21 MR. KETCHAM: Right.

22 ALJ WISSLER: Since everybody has
23 that, if you want to start with that, that's
24 fine. I'm just pointing out that there is an
25 additional diagram and explanatory data in
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1 Exhibit I, so why don't we do what we all
2 have.

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3 MR. KETCHAM: What I did was I just
4 described the level of service calculations of
5 the Highway Capacity Manual, and the standard
6 test procedures for estimating how an
7 intersection works. What I did was to go a
8 step beyond that to actually simulate the
9 operation of this intersection. I just did
10 the one, the p.m. peak hour at CR 49A and
11 Route 28. What I did was to simulate

12 conditions as described in the DEIS, and then
13 I looked at conditions that would occur with
14 what I think is a more realistic 2014 traffic
15 load for that area. What we get -- with a
16 signalized intersection which is part of the
17 mitigation proposed in the DEIS -- and what's
18 shown there is that for 2008, for the much
19 lower traffic volumes, the intersection worked
20 pretty well with the traffic signal. It will
21 process the traffic that they report will
22 occur.

23 However, if you load in the traffic I
24 think will occur by 2014 with the project, it
25 doesn't work so well, even with all of the
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 mitigation, with the left turn and the added ²⁵⁶
2 right turn lanes, and optimizing the
3 intersection for best performance. You still
4 have significant delays occurring in the
5 westbound direction -- I'm going to use
6 westbound and northbound. I know it's
7 different on the tables, but you get a level
8 of service here in the evening peak hour
9 entering the site going westbound off of Route
10 28 and exiting the site, where, by 2014, with
11 the expansion of the ski area, you may have as
12 many as 1100 vehicles trying to get out of the
13 site in one hour.

14 ALJ WISSLER: What you have just said,
15 is that summarized in 16 and 17 of CPC 1?

16 MR. KETCHAM: Yes.

17 ALJ WISSLER: Take me to page 17 of
Page 60

18 CPC 1.

19 MR. KETCHAM: 16?

20 ALJ WISSLER: 16 is the diagram of the
21 intersection.

22 MR. KETCHAM: It's 15 and 16 on mine.

23 ALJ WISSLER: You're right. 15 is the
24 diagram.

25 MR. KETCHAM: 16 is the results. Let
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1 me briefly describe the simulation model.

2 Basically what the simulation does is to
3 visually characterize the Highway Capacity
4 Manual, only it goes many, many steps beyond
5 that, not just to exhibit how vehicles will
6 operate, but statistically manages the traffic
7 flow. The problem with the Highway Capacity
8 Manual is that it's static. It takes an
9 hour's worth of travel, it adjusts for a
10 15-minute worst case and calculates a result.
11 what the model does is look at how traffic
12 actually moves through an intersection over an
13 hour, and it continually adjusts that. So you
14 have random vehicles entering and leaving, and
15 you can actually visually see that, and the
16 calculation of performance of the intersection
17 is reflected as well. what you have in 15 is
18 just a snapshot of what's on the screen here
19 showing you the configuration, as I understand
20 has been proposed in the DEIS. Then the next
21 page is --

22 ALJ WISSLER: Before we move on. 15,

23 each one of the little rectangles represents a
24 vehicle?

25 MR. KETCHAM: It's a car.
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 ALJ WISSLER: But it doesn't represent ²⁵⁸
2 a quantity of vehicles, one car?

3 MR. KETCHAM: One car.

4 ALJ WISSLER: And the space between
5 them is --

6 MR. KETCHAM: The headway.

7 ALJ WISSLER: Does an inch equal 10
8 seconds or something like that on that? Do
9 you know what I'm saying?

10 THE WITNESS: It's scaled pretty well,
11 but I wouldn't go so far as to say that. This
12 program will tell you what the average travel
13 speed is along here, if that's what you're
14 getting at. Carolyn is just whispering it
15 goes minute by minute, actually it goes second
16 by second, and it varies continuously. It's
17 driven by -- statistically driven so that each
18 minute that you're observing, looking at it,
19 is different from the previous one or the next
20 one. It gives you a snapshot on how the real
21 world really works. This is moving actually
22 four times real speed. If I put it on real
23 speed, you would be astonished how slow the
24 traffic is moving.

25 ALJ WISSLER: Is that something you
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 want to offer? ²⁵⁹

2 MR. GERSTMAN: Yes, I would like to
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3 offer the simulation but we don't have any
4 copies now for any of the parties or your
5 Honor.

6 MR. KETCHAM: How are you going to do
7 that? I can give you a copy of the software,
8 of the program.

9 ALJ WISSLER: Is that something that
10 -- just that simulation, can that be copied to
11 a three and a half inch floppy or to a CD?

12 MR. GERSTMAN: We can look into it.

13 MR. KETCHAM: I don't know -- without
14 the software --

15 ALJ WISSLER: Whether you can run it?

16 MR. KETCHAM: -- which is expensive,
17 you can't run it. We haven't done this before
18 so I don't know. We might be able to put it
19 on CD so you can actually see it operating. I
20 would have to go back to my office and see if
21 my guys could do that. We've never done it
22 before.

23 ALJ WISSLER: You're going to have to.
24 If you're going to rely on it and you want to
25 talk about it, it has to be in the record.
□ (BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 MR. GERSTMAN: I agree, your Honor.

2 MR. KETCHAM: Actually, I've seen
3 other people do it.

4 MR. GERSTMAN: What's the model?

5 MR. KETCHAM: Synchro.

6 ALJ WISSLER: Can you make a little
7 video of that running, a little CD of that

8 running?

9 MS. BAKNER: Your Honor, since they do
10 have the software, we would like to request it
11 so that we can inspect it.

12 ALJ WISSLER: That would be great,
13 since I don't have the software --

14 MR. GERSTMAN: Before we agree to
15 provide anything, I'm not quite sure what the
16 request was for.

17 MS. BAKNER: It's for exactly what the
18 Judge requested, which is the run, the
19 information, the data, so that we can enter
20 the same data in our system.

21 MR. GERSTMAN: I'm sure they can
22 coordinate what the information is. There's
23 no discovery in this proceeding, as we know,
24 so I'm not going to provide information other
25 than to provide --

(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 ALJ WISSLER: If that can be
2 downloaded to a CD so that I can view it.

3 MS. BAKNER: We withdraw the request.
4 We don't need it. We have the numbers so
5 we'll be fine. We'll run them ourselves.

6 MR. GERSTMAN: We'll try and provide
7 you with a copy of it.

8 ALJ WISSLER: It still leaves me
9 traffic-less, program-less.

10 Mr. Ketcham, can you briefly run me
11 through 16; how those numbers break out, how I
12 should be reading them.

13 MR. KETCHAM: 16 is one of the data

14 sheets that shows the volume of traffic, the
15 movement of traffic. I think there's enough
16 here for Chuck Manning to re-create what we
17 have done, and it gives you the levels.

18 ALJ WISSLER: I need to understand
19 what you did, sir.

20 MR. KETCHAM: I understand. So all
21 this does is show you what data, what the
22 assumptions are that were entered into the
23 model, and what the results are of that
24 modeling effort. And if you go to the bottom
25 -- sort of two-thirds of the way down the
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 page, it says LOS. So that gives you both the ²⁶²
2 level of service for each approach lane to the
3 intersection, as well as the total level of
4 service for the approach. It also gives you
5 the delay for both, each approach lane and for
6 the total approach to the intersection.

7 ALJ WISSLER: Just define some terms
8 for me; protected phases, permitted phases,
9 what is that?

10 MR. KETCHAM: If you look at the
11 bottom of the -- this is just the nomenclature
12 that controls the signal timing and phasing at
13 the bottom. Do you see that diagram?

14 ALJ WISSLER: Okay.

15 MR. KETCHAM: So that just represents
16 the signal timing and phasing that's shown in
17 that diagram.

18 ALJ WISSLER: Control delay, cue

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delay, total delay?

MR. KETCHAM: The important thing here is the total delay for each approach. And you see, for example, under the westbound left turn, it says 78.4 seconds. That's the delay suffered by each vehicle.

ALJ WISSLER: Whose westbound left
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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lane?

MR. KETCHAM: That's turning into the ski area. That's got a level of service E. It's very close to breakdown conditions. Very close to level of service E.

ALJ WISSLER: With respect to the lane groups; east, west, those designations are all accurate?

MR. KETCHAM: They are the same --

ALJ WISSLER: Is east, west, northbound -- the same corrections you made earlier?

MR. KETCHAM: I see. Well, it's the same deal. For example, northbound is really eastbound -- I'm sorry, northbound is northbound. This is true. This is laid out with an aerial map of the area so its -- so the program itself assigns the direction, and so the northbound is northbound on CR 49A leaving the ski area, ski center. And the westbound -- you see the westbound left turn is the westbound traffic entering into the ski area.

what this shows is as compared to the
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25 previous analysis for 2008, that the
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 intersection, even as signalized, does not
2 function anywhere near as well. You're still
3 going to get back-ups along -- particularly
4 along County Road 49A. Today you leave the
5 ski area with even 4,000 vehicle trips, and
6 traffic backs up to the upper parking area.
7 They have the police out there directing
8 traffic and they're still -- for an hour,
9 there's still a huge back-up. That's
10 basically reflected in these numbers with the
11 traffic signal.

12 I guess my bottom line here is that
13 conditions along -- not just at the entrance
14 but along Route 28 are going to be
15 considerably worse with full build out in 2014
16 under the conditions I have described and have
17 been described in the DEIS.

18 You had asked earlier about -- not
19 just near the site but along 28. I have not
20 analyzed conditions that are east of the site
21 all the way to I-87. I can only tell you that
22 I drive that all the time and that a traffic
23 increase of this magnitude is going to
24 propagate along there. I think you're going
25 to see, in particular during peak periods like
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 a Friday night where people are trying to get
2 to the slopes, and on a Saturday and a Sunday
3 night when they're leaving, there will be

4 greater delays. Right now, you can travel at
5 50, 55 miles an hour where it's posted for
6 that. My experience, when you get -- any
7 significant amount of traffic that occurs
8 today -- that those speeds decline to 45 miles
9 an hour.

10 And you can run the numbers, and I did
11 a quick calculation of that. You can run the
12 numbers for the delay that we'll experience
13 with this growth of travel, and you may face
14 during a typical Saturday 1500 to 2000
15 additional hours of delay, person hours of
16 delay, as a consequence of the kind of traffic
17 that I'm talking about because of the slower
18 operation of vehicles along 28.

19 ALJ WISSLER: I want to go back to one
20 final point here. The percentage of folks --
21 there was some assumptions about whether they
22 would be coming from the east or the west?

23 MR. KETCHAM: Right.

24 ALJ WISSLER: The percentage of folks
25 that would be coming along the Route 28
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 corridor from Kingston over to the site, what
2 percentage of the total --

3 MR. KETCHAM: They report -- I don't
4 remember the details at Kingston, I don't
5 think they reported it at Kingston. But they
6 report that 97 percent of vehicles that are
7 arriving at the two project sites will come
8 from the east and return to the east. Some of
9 them by roads other than Route 28. There's

10 some assignments to Route 42, there's some
11 assignments to Route 47, but basically the
12 lion's share are traveling to and from the
13 east along 28. That doesn't match existing
14 travel patterns we have reported on and that
15 they reported on.

16 ALJ WISSLER: Explain that to me.
17 what do you mean?

18 MR. KETCHAM: If you look at the
19 traffic volumes moving through CR 49A and
20 Route 28, you'll see that 35 percent are
21 moving to and from the west, 65 percent the
22 other direction, to and from the east.

23 ALJ WISSLER: Those percentages, is
24 that an annualized percentage or is that --

25 MR. KETCHAM: That's just for the
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 measurements that they took and that I took
2 for a peak Saturday.

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3 ALJ WISSLER: So this would be during
4 the ski season?

5 MR. KETCHAM: During the ski season,
6 that's right. I think there would be a very
7 different pattern off season, but I personally
8 have not examined that.

9 ALJ WISSLER: Okay.

10 MR. GERSTMAN: Let me ask, Mr.
11 Ketcham: In terms of the Route 28 corridor,
12 is it your opinion that the DEIS accurately
13 reflects the available capacity for the Route
14 28 corridor at the time that you indicated the

15 5-27-04 crossroads
project would be built to completion?

16 THE WITNESS: No, of course they
17 didn't estimate those conditions in 2014.
18 what they did report is near the site that
19 there would be considerable available capacity
20 on Route 28. That will be significantly
21 diminished in 2014 with the numbers I
22 presented.

23 MR. GERSTMAN: Would you say that the
24 seven intersections analyzed in the DEIS is an
25 adequate evaluation of the potential traffic
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 impacts from the project, or would you have ²⁶⁸
2 suggested or recommend, as I believe you are
3 doing, that the entire Route 28 corridor ought
4 to be evaluated?

5 MR. KETCHAM: I think the entire
6 corridor should be evaluated, and I'll get to
7 something relating to that, and I think
8 demonstrating the significance of doing that.
9 The answer is yes.

10 ALJ WISSELER: How much more do you
11 have, Mr. Ketcham?

12 MR. KETCHAM: Just a few minutes. I
13 want to get into some stuff that is new, and
14 if you permit me, I can go through this very
15 quickly. I basically already talked about
16 mitigation, so I'm going to skip that. They
17 don't have a lot of mitigation. The
18 mitigation does occur at the traffic signal at
19 CR 49 and 28. I think the other mitigations
20 are the shuttle buses, which I've already

21 discussed, remote park and ride. And
22 something that needs to be accounted for by
23 them is the scheduled check-in\check-out
24 during off peak hours. That would affect
25 travel behavior, and we need to understand
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 that on a 24-hour basis, not just as a
2 one-liner.

3 I've already covered the travel times
4 along Route 28. I've already covered the
5 parking needs that demonstrated that they can
6 calculate how much parking they need. And we
7 just don't know -- they need to do that so
8 they can demonstrate whether or not they're
9 providing sufficient parking.

10 The one new issue that I would like to
11 introduce is on externality costs. These are
12 the costs associated with adding more traffic
13 to the Route 28 corridor, and along I-87,
14 among others. Externality is a thing like
15 increased travel times, congestion, lost
16 productivity, increased traffic accidents,
17 costs that are not covered by insurance, and
18 the environmental impacts of adding traffic to
19 the area.

20 I've already said that I believe the
21 project over a period of a year will add about
22 a half million new cars to the area,
23 particularly those two corridors. I have
24 calculated that that would generate about 77
25 million added miles of travel which will
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 impact everybody else who is currently on the
2 roadway system.

3 If you turn to page 17, you'll see my
4 summary of a calculation of those externality
5 costs. They come to about \$27 million a year.
6 These are costs to society that will be
7 created by adding 77 million miles of travel
8 to the corridor. The congestion loss is
9 traffic accident costs not paid for by
10 insurance are the big ticket item, but there
11 are environmental -- you can see there the
12 environmental damages.

13 There's also damages to our roadway
14 system. Every time a car obviously drives on
15 the highway system, it produces some wear and
16 tear. And we can actually calculate these
17 damages, both to the pavement and to the cars
18 that smash into potholes and the like. And it
19 comes to about 27 million dollars in a year.
20 Very substantial.

21 I have to say that frequently people
22 just scoff at this and write it off, but I
23 don't know if anybody has seen the latest
24 issue of National Geographic. Here's a
25 conservative magazine that did an article just
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 recently about our looming oil crisis, and
2 even they acknowledge that there are very
3 substantial externality costs to auto driving.
4 The costs are real. They are borne by society
5 every single day, and they should be part of

6 the calculation of the benefits and costs of
7 any kind of project. So I'm offering that.

8 ALJ WISSLER: What's vibration damage?

9 MR. KETCHAM: Vibration to nearby
10 buildings. Basically heavy trucks that would
11 be servicing this facility. Going along 28,
12 they hit a pothole, they cause a vibration to
13 occur, and they have real costs to those
14 people who live and work along the Route 28
15 corridor. These are -- the damage to private
16 vehicles are just that. A vehicle is driving
17 along, hits a pothole, breaks an axle. Those
18 are real costs to the motorists. All of this
19 can be quantified today, and we do it as a
20 matter of course.

21 ALJ WISSLER: Real quickly, what did
22 you use to calculate these numbers?

23 THE WITNESS: I've been doing this for
24 projects for 25 years based on research that's
25 been done in this country and Europe, and
□ (BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 developed analogs that calculate these things.²⁷²

2 It's really very simple. Over the years we
3 have been able to establish what the cost is,
4 what the externality costs are per mile of
5 travel for various types of vehicles. And if
6 you want, I can provide you with some of that
7 information that demonstrates the background
8 for that and what those characteristics are.

9 MR. GERSTMAN: In your professional
10 opinion, are these costs generally accepted in

11 your profession as representing the
12 externalities of increased traffic in vehicle
13 use?

14 MR. KETCHAM: Well, I was glad to see
15 that the U.S. Department of Transportation
16 provided the data to National Geographic for
17 their report. So yes, clearly increasingly,
18 they are used. And in fact, if you look at
19 the next page -- this is a little different
20 way of calculating it. This is using New York
21 State Department of Transportation accident
22 rates and the cost of the accident, cost per
23 accident, and calculating out. Their number
24 is based -- we're looking at, for example,
25 another traffic death a year as a consequence
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

1 of this project, another 37 people injured as ²⁷³
2 a consequence of adding 77million miles of
3 traffic.

4 And the State DOT is very
5 conservative. Their analysis, this is in 2002
6 dollars. It's about seven million dollars in
7 damages to society. I can tell you, we use
8 these numbers in every single accident
9 analysis that we do for the New York State
10 Department of Transportation. These are
11 official numbers.

12 ALJ WISSLER: Was there a base annual
13 vehicle miles traveled number that you used to
14 arrive at that?

15 MR. KETCHAM: It's listed right here.
16 I calculated the -- I calculated, estimated

17 that it says 76,617,000 miles. If you look at
18 page 18, look over to the top left, that's the
19 annual BMT by roadway type that I've estimated
20 for this project. That's not based on a whole
21 lot of information because the DEIS doesn't
22 address this. I've had to estimate these
23 figures. I would say these are ballpark
24 results, they're probably pretty close. It
25 would be helpful for the DEIS to provide a
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

□

1 sufficient body of information to actually
2 calculate this, or should calculate these
3 numbers themselves. And that concludes my
4 remarks.

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5 MR. GERSTMAN: If I might, your Honor,
6 we would like to supplement the record
7 possibly at the next appearance concerning the
8 pages from the ITE handbook that you have
9 inquired about. We will inquire certainly
10 about how to replicate the synchro model for
11 your use.

12 ALJ WISSLER: I had a question about
13 the correlation of the numbers on the first
14 two pages.

15 MR. KETCHAM: You want me to develop a
16 memo describing that or sit down and show it
17 to you?

18 ALJ WISSLER: No, just show me how I
19 can do the same math.

20 MR. GERSTMAN: Finally, your Honor, we
21 do -- have contended in our petition that the

22 traffic impacts, we're starting to see, have a
23 direct impact on community character, both in
24 terms of delay, in terms of the externalities
25 that Mr. Ketcham has identified in terms of
(BRIAN T. KETCHAM, P.E. - TRAFFIC ISSUE)

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1 the type of impacts on rural experienced
2 mountain landscape, and the forest preserve
3 impacts. We will, subject to connection with
4 our other experts, identify why traffic will
5 have an adverse significant impact on
6 community character.

7 ALJ WISSLER: If during that
8 presentation, you need to have Mr. Ketcham
9 provide extra remarks, that's fine.

10 MR. GERSTMAN: I'm not sure that we
11 would, your Honor, I think the summary of his
12 report and the additional information you
13 require --

14 ALJ WISSLER: I'm just telling you I
15 won't preclude you from doing that.

16 MR. GERSTMAN: Thank you, your Honor.

17 ALJ WISSLER: Anything else?

18 (NO AFFIRMATIVE RESPONSE.)

19 ALJ WISSLER: What we're going to do
20 then at this time is to adjourn the Issues
21 Conference until June the 7th.

22 MR. RUZOW: The 7th if Marc can
23 confirm that.

24 MR. GERSTMAN: Your Honor, I do want
25 to make --
(CLOSING REMARKS - CROSSROADS VENTURES)

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1 ALJ WISSLER: You wanted to make some
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2 remarks?

3 MR. GERSTMAN: Yes.

4 ALJ WISSLER: But I mean, the Issues
5 Conference in this matter will be continued on
6 June the 7th, 9 o'clock in this building.

7 MR. GERSTMAN: Subject to
8 confirmation.

9 ALJ WISSLER: Subject to confirmation,
10 and definitely June the 8th at 9 o'clock in
11 this building. Mr. Gerstman.

12 MR. GERSTMAN: Thank you, your Honor,
13 I'll be brief. I know we have some of our
14 experts waiting and we're set for the site
15 visit.

16 Your Honor, the other day, I guess was
17 Tuesday, the beginning of the Issues
18 Conference, I made an application that the
19 press be allowed to attend the site visit.
20 Your Honor issued your ruling that you would
21 neither compel, nor deny the press -- correct
22 me if I'm misstating what your ruling was --
23 the obligation of the press. And you left it
24 essentially to the developer to consent to
25 access, and with the developer's consent, that
(CLOSING REMARKS - CROSSROADS VENTURES)

□

1 opportunity would have been afforded to the
2 press. That's my understanding of what your
3 Honor had stated.

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4 The press has made an application to
5 Crossroads Ventures to obtain entry to the
6 site. Mr. Powers has informed me that he has

7 been denied access by the project sponsor. We
8 believe that this is a fundamental denial of
9 the press to have an opportunity to report on
10 a significant aspect of this public hearing
11 process.

12 As you know, your Honor, we are -- you
13 have precluded us from offering opinion and
14 argument concerning any of the substantive
15 issues, that the site visit is being used as a
16 way to identify for your Honor those areas
17 that are significant and important, and will,
18 in fact, be discussed later on in the hearing
19 process or the Issues Conference. With that
20 understanding, however, it is important for
21 the press to have access to represent to the
22 public, to be able to identify to the public
23 these areas that your Honor has either
24 expressed interest in or that the project
25 sponsor or our experts have identified as
(CLOSING REMARKS - CROSSROADS VENTURES)

□

1 being significant. There were many of those ²⁷⁸
2 instances that took place in our site visit on
3 Wednesday, not the least of which was the
4 lightning strike while we were walking
5 through the forest.

6 Your Honor, we believe that it's an
7 essential part of the Issues Conference, the
8 hearing process, that the press be provided
9 access, and we take exception to the
10 Applicant's refusal to allow, in this case the
11 Phoenicia Times, to have access. We don't
12 believe that a special press opportunity to

13 visit the site without your being present,
14 without us being present, is sufficient to
15 substitute the right of the press to be
16 present during this public hearing process.
17 Thank you.

18 ALJ WISSLER: Mr. Ruzow.

19 MR. RUZOW: We have provided -- the
20 Applicant has provided the press with an
21 opportunity to visit the site. We
22 respectfully decline to provide an opportunity
23 to -- for the press to attend the site visit
24 by your Honor and counsel. As we discussed
25 before, we tried to limit the number of people
(CLOSING REMARKS - CROSSROADS VENTURES)

1 coming on the site, for both the importance of²⁷⁹
2 being able to timely visit the site, and get
3 through all the things we need to do. And we
4 just -- there's nothing further that needs to
5 be said.

6 The opportunity would be provided if
7 the press is interested in seeing the site to
8 a larger press group than an individual
9 representative of a particular paper.

10 ALJ WISSLER: Mr. Ruzow, have there
11 been any plans made with respect to that
12 subsequent site visit by the press?

13 MR. RUZOW: Not yet. We need to
14 contact -- provide an opportunity and contact
15 the press that's interested. Most of the
16 press that has expressed an interest in
17 visiting the site have already been provided

18 with opportunities, along with most of the
19 members of the CPC organizations. And we'll
20 been glad to try to set something up. But as
21 you know, this just came up in the last day or
22 so, and all we did was contact the two
23 representatives that expressed an interest at
24 Tuesday's meeting.

25 MR. GERSTMAN: Your Honor, one brief
(CLOSING REMARKS - CROSSROADS VENTURES)

1 response. whether there's one member of the ²⁸⁰
2 press corps who wants to get on or many, this
3 has been a publicly reported proceeding, the
4 press understands when it was going to take
5 place. The Phoenicia Times, Mr. Powers was
6 here and made that application. It doesn't
7 matter that others could have and didn't make
8 that application or request. The fact of the
9 matter is that he did. Thank you.

10 ALJ WISSLER: Okay. I'm not sure a
11 response is really required from me. My
12 ruling is as it is. It is, however, my
13 understanding that the Applicant will be
14 providing the press opportunity for a future
15 site visit.

16 Again, I'm going to emphasize what I
17 said the other day. There are no decisions,
18 there is no argument with respect to the
19 features that we are seeing, the environmental
20 features that we are observing. It's just to
21 make sure that all participants in this Issues
22 Conference have familiarity with the site in
23 order to facilitate the Issues Conference

5-27-04 crossroads

24 process.

25 We are done here, and we're off to Big
□ (CLOSING REMARKS - CROSSROADS VENTURES)

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1 Indian I guess.

2 (12:18 P.M. - WHEREUPON, THE ABOVE
3 ISSUES CONFERENCE PROCEEDINGS ADJOURNED FOR
4 THE DAY.)

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C E R T I F I C A T I O N

I, THERESA C. VINING, hereby certify and say that I am a Shorthand Reporter and a Notary Public within and for the State of New York; that I acted as the reporter at the Issues Conference Proceedings herein, and that the transcript to which this certification is annexed is a true, accurate and complete record of the minutes of the proceedings to the best of my knowledge and belief.

THERESA C. VINING

DATED: May 28, 2004.

□