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DAY 2

CONTINUED HEARING ON PROPOSED AMENDMENTS

35 Ill. Adm. Code 201, 202, & 212

Cause No. R23-18

February 16, 2023

Carla P. Letellier, CSR, RPR CSR No. 084-003315

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               The aforementioned proceedings were
     held on February 16, 2023, at 160 North LaSalle
     Street, Room 505, in the City of Chicago, State
 2
     of Illinois, before Carla P. Letellier, a
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     Certified Shorthand Reporter and Registered
     Professional Reporter.
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 6
     Illinois EPA:
     Charles Matoesian
 7
     Dana Vetterhoffer
 8
     Illinois Environmental Regulatory Group:
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 9
     Kelly Thompson
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     Chloe Salk (Hearing Officer)
15
     Timothy Fox (Hearing Officer)
16
     Jennifer Van Wie (Board Member)
     Chemical Industrial Council of Illinois:
17
     Lisa Frede
18
     Illinois Attorney General:
19
     Molly Kordas
     Ann Marie Hanohano
20
     American Petroleum Institute:
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     John Derek Reese
2.2
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 2
     Midwest Generation:
     Sharene Shealey
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     Dynegy Entities:
     Cynthia Vodopivec
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MR. FOX: I want to wish everyone a good morning, and to welcome you to this Illinois Pollution Control Board hearing.

My name is Tim Fox, and with Chloe Salk to my left, we are the Hearing Officers for this rulemaking procedure entitled Amendments to 35 Illinois Administrative Code 201, 202, and 212, which IEPA filed under the fast-track rulemaking provisions of Section 28.5 of the Environmental Protection Act. The Board Docket Number for this rulemaking is R23-18.

To get started today, I want to go quickly through three preliminary items, introductions, and the Board's procedure to date, and then housekeeping, including the order in which we plan to proceed.

First, the introductions, at my immediate left is Board Member Michelle Gibson, who is the lead board member assigned to this rulemaking docket, and at may far right is Board Member Jennifer Van Wie. In addition to Chloe Salk, who I already mentioned, present here today from the Board staff are Anand Rao at my right, the Board's technical director, and our

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Page 6 1 general counsel, Marie Tipsord, has joined us and is in the audience with us today. 2 A quick summary, second of the 3 4 Board's procedure to date. As I mentioned, the 5 IEPA filed this under the fast-track rulemaking 6 provisions of Section 28.5. The Board accepted 7 the proposal for hearing and without substantive 8 comment on it, submitted the proposal to first 9 notice of publication in the Illinois Register where it appeared on December 30, '22. 10 On December 16 of '22, a hearing 11 12 officer ordered scheduled hearings, and we are 13 today, of course, holding the second of those under Section 28.5F2, the second hearing "Shall 14 be devoted to presentation of testimony, 15 16 documents and comments by affected entitles and all other interested parties." 17 18 In the order scheduling hearings, the Hearing Officers directed pre-filing of 19 20 testimony for this hearing no later than Monday, 21 February 6 of '23. On that date, the Board 22 timely received pre-filed testimony from 23 Ms. Lisa Frede for the Chemical Industry Council 24 of Illinois; Ms. Kelly Thompson, and Mr. David

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Page 7 Wall on behalf of the Illinois Environmental 1 2 Regulatory Group, commonly known as IERG; from Cynthia Vodopivec on behalf of Dynegy; Mr. John 3 4 Derek Reese of the American Petroleum Institute; 5 and Ms. Sharene Shealey on behalf of Midwest 6 Generation. 7 In a Hearing Officer Order on 8 February 14, the Board submitted 32 questions, 9 each of which is directed to one of the witnesses. And on February 15, yesterday, the 10 11 Office of the Attorney General also submitted 12 questions, each of which is also submitted 13 directly to one of the witnesses. The Board has posted these 14 15 documents to its Clerk's Office Online or COOL 16 C-O-O-L. And they are all under this Docket Number R23-18, of course. 17 18 Finally, the housekeeping for our 19 hearing, this is governed by the Board's 20 procedural rules under Section 102.426 of those 21 rules; all information that is relevant and is 22 not repetitious or privileged will be admitted 23 by the hearing officer into the record. Please 24 bear in mind that any questions posed today

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Page 8 1 either by the Board members or by the Board 2 staff are intended solely to create a complete and clear record for Board's ultimate decision, 3 4 and those questions do not reflect any 5 determination or judgment on the proposal, the 6 testimony, or the questions. 7 The witnesses' pre-filed 8 testimony under Section 28.5 of the Act is entered into, as if read, that the witness 9 swears to testimony and is available for 10 11 questions. My inclination is to proceed right 12 to the questions, both those that had been 13 pre-filed and those that may arise in the course of hearing, and to dispense even with a quick 14 summary or introduction, so that we can take 15 16 care of this hearing as expeditiously as 17 possible. 18 We'll then turn to questions, 19 witness by witness, my intention is to begin 20 with those pre-filed by the Office of the 21 Attorney General, we can turn to any other 22 questions that might arise from any of the other 23 participants, including follow-up questions, and 24 then the Board will wrap up with each of the

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Page 9 witnesses with the questions that it has filed. 1 2 If you would like to ask a follow-up question, the first time, especially, 3 4 please when you raise your hand, identify 5 yourself by name for the court reporter for a 6 record that's clear as possible, and it would be helpful if you also identified any organization 7 8 or entity that you represent. 9 Finally, as noted in the original Hearing Officer Order, the Board at 11:00 a.m. 10 11 today will hold one of its regularly scheduled 12 open board meetings by video conference with this room as one of the locations. 13 We will recess shortly before then and at that time, 14 15 determine the time to reconvene here in this 16 same room. It is an open and public meeting. 17 If you wish to stay for any reason, you are more 18 than welcome to do that, but there are spaces in 19 the building where you can meet with one another or take a break, if you wish. 20 21 Any questions about our order of 22 proceeding? If not, we were going to begin. 23 First of all, with the testimony entered as I've 24 read, from Ms. Vodopivec on behalf of Dynegy,

		Page 10
1	proceed with questions of her that may arise;	
2	second, proceed with Ms. Thompson, Mr. Ward	
3	[sic], and Mr. Reese, and the questions that are	
4	in the record that may arise at hearing for	
5	them, then proceed to Ms. Frede on behalf of the	
6	Chemical Industry Council, and conclude with	
7	Ms. Shealey on behalf of Midwest Generation,	
8	again, taking those questions in the order that	
9	I described.	
10	Any questions about our	
11	proceedings before we get underway?	
12	That sounds great. I think	
13	Mr. More, we're prepared to have Ms. Vodopivec	
14	sworn in and prepared to answer questions, if	
15	she is ready for that.	
16	MR. MORE: We are ready.	
17	MR. FOX: Very good. If the court	
18	reporter would swear in Ms. Vodopivec, please.	
19	[Ms. Vodopivec sworn.]	
20	MR. FOX: Ms. Vodopivec, if you would	
21	identify yourself, specifically, for the record,	
22	please, I would appreciate it.	
23	MS. VODOPIVEC: Sure. It's Cynthia	
24	Vodopivec, spelled V, as in Victor, O-D, as in	

		Page 11
1	David, O-P, as in Peter, I, and V-E-C, and I'm	
2	the senior vice president, environmental health	
3	and safety, for Dynegy.	
4	MR. FOX: Thank you, Ms. Vodopivec.	
5	The Attorney General's attorneys I had spoken	
6	with before hearing, they are going to come up	
7	so that they are more audible and certainly more	
8	visible than they are, if you will give them	
9	just a moment.	
10	MR. MORE: We can go off the record	
11	for a moment?	
12	(Discussion off the record.)	
13	MR. FOX: And we can go back on the	
14	record.	
15	Ms. Kordas, on behalf of the	
16	Attorney General's office, if you can please	
17	identify yourself for the record, for the court	
18	reporter.	
19	MS. KORDAS: My name is Molly Kordas,	
20	K-o-r-d-a-s, Office of the Illinois Attorney	
21	General.	
22	MR. FOX: And Ms. Kordas, although the	
23	testimony is entered into the record as if read	
24	under the Act, the questions, although	

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Page 12 1 pre-filed, are not explicitly, so I'm going to 2 ask you to proceed with reading your first 3 question, we can proceed with the answers to 4 those. 5 MS. KORDAS: Sure. 6 EXAMINATION 7 BY MS. KORDAS: 8 So our first question, in the Q. 9 pre-filed testimony Dynegy states that its proposal would satisfy U.S. EPA's 2015 10 guidance on page 19. 11 12 Can you elaborate on your opinion of how it satisfies that 2015 guidance? 13 14 Sure. Dynegy's post-hearing brief will further elaborate on how its proposal 15 satisfies the 2015 guidance. Dynegy is not 16 17 aware of any other state and established 18 regulatory -- sorry. 19 MR. MORE: First question in multiple 20 parts. 21 BY MS. KORDAS: 22 Okay. And are you aware of any other Q. 23 state that has established regulatory 24 provisions that resemble your proposal; and if

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so, have they been approved by the U.S. EPA?

- A. Dynegy is not aware of any other state that has established regulatory provisions resembling Dynegy's. But I know that Dynegy's proposal is a site-specific narrow proposal affecting only three of its power plants.
- Q. And did Dynegy collaborate with Midwest Generation in developing its proposal?
- A. Dynegy did coordinate with Midwest Generation.
- Q. Okay. And if you could provide a post-hearing brief of any related information you can provide to the record, would be appreciated.
 - A. Okay.

Q. Our second question was U.S. EPA explicitly discusses enforcement discretion as a means "consistent with Clean Air Act requirements for state implementation plan provisions that states can use" to address SSM events.

Is it your opinion that IEPA's proposed use of its enforcement discretion complies with the 2015 guidance documents

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discussion of enforcement discretion?

1

2 Α. So whether IEPA's proposed use of enforcement discretion would comply with U.S. 3 4 EPA's 2015 guidance is a legal question, but I will note that even if IEPA exercises its 5 6 discretion not to enforce an exceedance of 7 applicable opacity limits caused by SMB, Dynegy 8 would still be exposed to potential enforcement 9 by U.S. EPA or by members of the public. Thank you. And I think 10 MS. KORDAS: that's all we have for Dynegy. 11 12 MR. FOX: Ms. Kordas, thank you. 13 Is there any follow-up question 14 or any other question for Ms. Vodopivec on 15 behalf of Dynegy at this point? 16 Neither seeing nor hearing any, the Board, of course, had pre-filed some, which 17 18 Mr. Rao on behalf of the Board will quickly 19 raise. 20 MR. RAO: Good morning. 21 MS. VODOPIVEC: Good morning. 22 MR. RAO: On pages 4 and 6 of your 23 pre-filed testimony, you state that Baldwin and 24 Newton plants, the affected units in those power

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Page 15 1 stations, fire fuel oil during startup and for flame stabilization. 2 3 Please clarify whether using fuel 4 oil during startup reduces opacity levels at 5 your plant? So fuel oil is considered a cleaner 6 Α. 7 burning fuel and generates less particulate 8 matter and opacity levels. However, not all 9 opacity during startup results from combustion of fossil fuels during startup. For example, 10 11 ash can be dislodged from the ductwork during 12 startups resulting in opacity. 13 MR. RAO: Does Dynegy use fuel oil during startup in affected units? 14 15 Α. Yes, we do. Dynegy uses fuel oil 16 during startup of the coal-fired boilers at Baldwin and Newton. 17 18 MR. RAO: Are they required by permits 19 to do so, or you just use it as a good practice? 20 So fuel oil is used because it has a Α. 21 lower ignition temperature and greater ignition stability than coal. Fuel oil is used to 22 23 preheat the boiler prior to introduction of 24 coal.

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Page 16 In terms of is Dynegy required by 1 its permit to use the fuel oil, Dynegy is 2 3 required to use clean fuels for ignition during 4 startup per the NAAQS requirements included in 5 the Baldwin and Newton permits. Fuel oil is 6 considered a clean fuel for those purposes. 7 MR. RAO: I have similar questions on 8 Kincaid, whether you use -- fire natural gas during startup and for flame stabilization. 9 So does natural gas also -- or is 10 it similar to fuel oil in terms of raising 11 12 opacity levels during startup? So natural gas is considered a cleaner 13 burning fuel and generates less particulate 14 15 matter and opacity than coal. However, not all 16 opacity during startup results in combustion of fossil fuels during startup. For example, as I 17 18 mentioned before with fuel oil, ash can be

MR. RAO: Are you required by permits to use natural gas at Kincaid during startup?

dislodged in the ductwork during the startup

resulting in opacity.

19

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A. Dynegy is required to use clean fuels for ignition during startup for the NAAQS

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Page 17 requirements including the Kincaid permit. 1 Natural gas is considered a clean fuel for those 2 3 purposes. 4 MR. RAO: On page 13 of your pre-filed testimony you state that Dynegy's proposal 5 6 provides an alternative average period for 7 demonstrating compliance during SMB of specific 8 coal-fired boilers at Newton, Baldwin, and 9 Kincaid generating stations. 10 Please comment on whether Dynegy 11 has opacity monitoring data from the affected 12 units that illustrate the difference in opacity levels during normal operation and during 13 startup, malfunction, and breakdown? 14 15 Yes, we do. Α. MR. RAO: If so, would it be possible 16 17 for you to submit said illustrative opacity 18 monitoring data for the affected boilers? 19 Yes, we will provide illustrative opacity monitoring data, we are proposing before 20 21 next Friday, February 24, we'll be able to get all that information. 2.2 23 MR. RAO: Thank you. I appreciate 24 that.

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Also, can you please clarify whether shutdown of affected units is covered by Dynegy's proposal?

2.2

A. Dynegy's proposal includes only startups, malfunctions, and breakdowns, the same events addressed by the current Illinois SMB provisions and Dynegy's CAAPP permits for these plants. Dynegy is not seeking to broaden or narrow the meaning of those terms or to add a categorical exclusion for shutdowns. To the extent that certain shutdowns are covered by the current SMB provisions, we intend for those to be covered for our purposes.

MR. RAO: When you say for those units that are covered by existing rules for shutdown, could you identify any specific provisions in the board rules that cover that or is it under the general rule that we are --

A. So we are not looking to expand if it's covered as an existing startup malfunction or breakdown, that is what we are looking at to be covered.

MR. RAO: Is there any particular reason multiple times shutdown is brought up in

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Page 19 1 testimony, you know, when we are talking about 2 this proposal from the agency, you know, the mention of startup and shutdown, and your 3 4 specific proposal doesn't address shutdown. Is 5 there any particular reason, or is it just 6 because the existing rules don't mention it? 7 Α. It's because we are not looking to 8 expand the scope of the existing rule. 9 MR. RAO: Thank you. On page 14 of your pre-filed testimony, you note that under 10 11 Dynegy's proposal, compliance "would be 12 accomplished for a given six-minute block period when the alternative averaging period is needed 13 by taking the average opacity measurements from 14 15 the COMS, for those six minutes and the 16 preceding 174 minutes of data." 17 Please explain the rationale for 18 proposing the three-hour averaging period 19 instead of a shorter period to demonstrate 20 compliance with the opacity limitation? 21 Α. So Dynegy elected to include a numeric 22 limit in addition to work practices during SMB 23 events in order to maximize the probability that

U.S. EPA will approve its proposal if adopted by

24

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Page 20 the Board into the Illinois SIP. In setting 1 2 that limit, Dynegy decides the existing standards of 20 percent and 30 percent in a 3 4 three-hour averaging period because the construct is utilized in Baldwin, Kincaid, and 5 6 Newton, IEPA-approved CAM plans for compliance 7 with the applicable state PM standard, 8 particulate matter standard. 9 Opacity is not a pollutant and so there is no NAAQS for opacity. But opacity can 10 11 be an indicator for purposes of NAAQS. 12 As I noted in my testimony, the federally enforceable CAM plan for these boilers 13 to ensure continuance compliance with the 14 15 applicable PM standard utilizes opacity as an 16 indicator, and it sets the indicator level at 17 20 percent for Newton and 30 percent for Baldwin 18 and Kincaid over a rolling three-hour period. 19 Those CAM plan indicators were determined by IEPA in consultation with Dynegy. Those CAM 20 21 plans are incorporated already into our CAAPP, 22 or CAAPP permits. U.S. EPA reviewed the permits 23 and did not object to them. 24 By using a three-hour average data,

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the Board and the U.S. EPA can be assured that
this limit would ensure that Dynegy's opacity
during SMB events does not exceed the applicable
state CAM limits, and in turn, consistent with
the state implementation plan for PM emissions.
Thus, we believe it is unnecessary to consider a
shorter average period.

MR. RAO: Could you please provide examples using actual opacity and monitoring data prior to startup, malfunction, or breakdown that supports Dynegy's contention that the proposed three-hour averaging time will be necessary to meet the 30 percent opacity limitation during startup?

A. So we are looking into the data -into the data, and we will endeavor to provide
that information prior to next Friday,
February 24.

MR. RAO: Thank you. On page 3 of your pre-filed testimony, you state that Dynegy proposes "an alternative averaging period to demonstrate compliance with applicable opacity standards for the coal-fired boilers at Baldwin, Newton, and Kincaid."

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Page 22 1 Please clarify whether the affected units are in or near environmental 2 3 justice areas or environmental justice 4 communities? Sure. So based on the IEPA EJ start 5 Α. 6 tool, Baldwin, Newton, and Kincaid are not in or 7 near EJ areas. 8 MR. RAO: I think that answers the 9 next question about potential impacts since you are not in those areas. 10 11 The last question I have is 12 please comment on whether Dynegy's concern about compliance with other air pollutants emissions 13 limitations at the affected power stations such 14 15 as carbon monoxide or nitrogen oxide? 16 So Dynegy is seeking its Α. Sure. authorization only for opacity, not for any 17 18 other air pollutants such as CO or NOx. 19 Dynegy's permits currently provide broader SMB 20 authorization for exceedance in the applicable 21 emission standards, including PM, SO2, and CO 2.2 for Baldwin, PM and CO for Kincaid, and PM, CO 23 and NOx for Newton. 24 While Dynegy would prefer to retain

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Page 23 all these authorizations it currently has in its 1 2 permits, in an effort to keep this proposal as narrow as possible, it is asking for relief only 3 4 in connection with opacity. MR. RAO: So with those authorizations 5 6 that Dynegy has currently for PM, CO, and NOx, 7 are those authorized under the Board rules; and 8 if so, which specific regulations? 9 So those are authorized currently Α. under the Board's startup, malfunction, and 10 11 breakdown rules that they are planning to --12 that are planning to be revised. 13 MR. RAO: Okay. Thank you. That's the last of the 14 MR. FOX: questions that the Board had pre-filed and 15 wishes to ask of Dynegy's witness. 16 17 Before we move on, I want to make certain no one else -- none of the other 18 19 participants has a follow-up question or any 20 other question to pose to Ms. Vodopivec. 21 Neither seeing nor hearing any, 22 Ms. Vodopivec, we thank you for your testimony 23 and your response to questions. 24 MS. VODOPIVEC: Can I just make one

		Page 24
1	clarification?	
2	MR. FOX: Sure.	
3	MS. VODOPIVEC: We will provide that	
4	information by next Friday, not prior to.	
5	MR. FOX: And that was the opacity	
6	data-specific	
7	MS. VODOPIVEC: Opacity data	
8	information, correct.	
9	MR. FOX: In response to questions	
10	Numbers 26 and 29?	
11	MR. MORE: Correct.	
12	MR. FOX: Mr. More indicates he took	
13	accurate notes.	
14	Ms. Vodopivec, thank you for your	
15	testimony and for your travel. We appreciate	
16	it, and we have plainly exhausted the questions	
17	that any of the participants had for you today.	
18	MS. VODOPIVEC: Thank you.	
19	MR. FOX: Thank you.	
20	And as we discussed before	
21	hearing, we have three witnesses with some	
22	significant overlap. Ms. Brown, on behalf of	
23	IERG, I think it probably makes the most sense	
24	while we have some open chairs	

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1	MS. BROWN: We did discuss, so we'll
2	change.
3	MR. FOX: You were a step ahead. We
4	appreciate it. Thank you.
5	Ms. Brown, it appears that and
6	Messina, that the witnesses are ready. If we
7	are prepared to have them sworn in, I'll have
8	the court reporter do that.
9	[Mr. Wall, Ms. Thompson, Mr. Messina
10	and John Derek Reese sworn.]
11	MR. FOX: Ms. Brown, if you would
12	begin, please, by having your witnesses identify
13	themselves for the record and the entity or
14	organization they represent, that would be a
15	good start.
16	MS. BROWN: And hello, for the record,
17	I'm Melissa Brown for the Illinois Environmental
18	Regulatory Group, also known as IERG, I-E-R-G.
19	MR. WALL: I'm David Wall with Trinity
20	Consultants. I'm a principal consultant and
21	regional manager, and I'm here on behalf of
22	IERG.
23	MS. THOMPSON: I'm Kelly Thompson,
24	K-e-l-l-y, T-h-o-m-p-s-o-n, I'm the executive

		Page	26
1	director of the Illinois Environmental		
2	Regulatory Group.		
3	MR. MESSINA: Good morning, my name is		
4	Al Messina, M-e-s-s-i-n-a, and I am with		
5	HeplerBroom and representing the American		
6	Petroleum Institute.		
7	MR. REESE: I am John Derek Reese,		
8	R-e-e-s-e, with American Petroleum Institute.		
9	MR. FOX: Thank you one and all. As		
10	we did with our previous witness, we'll begin		
11	with questions of the attorney general's office.		
12	We will see whether other participants, et al.,		
13	have any questions of their own or any follow-up		
14	questions, and then we'll wrap up with those		
15	that were pre-filed by the Board.		
16	Ms. Kordas has come back to the		
17	front of the room, and Ms. Kordas, if you would		
18	like to begin with your questions for the		
19	environmental regulatory group, we are in order		
20	for that at this point.		
21	MS. KORDAS: Thank you.		
22	EXAMINATION		
23	BY MS. KORDAS:		
24	Q. So IERG states that use of		

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"enforcement discretion is inconsistent with the approach that U.S. EPA has elected to take."

2.2

How is this accurate considering U.S. EPA statements on use of enforcement discretion in its 2015 guidance?

MR. WALL: So on page 33,980 of the 2015 SIP Federal Register the U.S. EPA stated "One approach other than exemptions that would be consistent with Clean Air Act requirements for SIP provisions that states can use to address excess emissions during SSM events is to include in the SIP criteria and procedures for the use of enforcement discretion by air agency personnel. SIPs may contain such provisions concerning exercise of discretion by the air agencies own personnel, but such provisions cannot bar enforcement by the EPA or by other parties through to a citizen suit."

The U.S. EPA goes on to explain that "All parties with authority to bring an enforcement action to enforce SIP provisions have enforcement discretion that they may exercise," and I do not disagree that this is

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consistent with the Clean Air Act. However, in terms of rectifying the SSM SIP deficiency, the U.S. EPA stated that states, "can include in the SIP criteria and procedures for the use of enforcement discretion by agency personnel." Therefore, a state relying on enforcement discretion that is not addressed in the SIP appears to be inconsistent with U.S. EPA's approach as to correcting SSM SIP deficiencies.

Q. So your contention is that it needs to be addressed in the SIP to be consistent --

MR. WALL: To be consistent if relying solely on enforcement discretion, it would be -- it should be addressed in the SIP.

Q. Okay.

2.2

MR. WALL: And further, I would say that enforcement discretion, in my opinion, is not the best remedy for cases such as boiler startup or FCC startup, as I've testified to, where there is a known compliance issue beforehand, rather than something unexpected where enforcement discretion can be taken into account after the fact.

Q. Okay. IERG also discusses U.S. EPA's

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approaches to SSM events in its 2015 guidance, in particular, your testimony discusses U.S. EPA's criteria for developing alternative emission limitations. In the same guidance document, U.S. EPA also describes how use of agency enforcement discretion is consistent with the Clean Air Act.

2.2

Is it your opinion that IEPA's approach to use of its enforcement discretion is consistent with the Clean Air Act and able to be approved by the U.S. EPA?

MR. WALL: My answer would be the same as to the first question.

Q. And finally, has any other state proposed alternative emissions limitations that resemble those proposed by IERG?

MR. WALL: To my knowledge, no, no other state has adopted similar alternative emissions limitations as proposed by IERG; however, in my experience and to my knowledge, most states do not have a similar emission limitation as Illinois does for the FCC carbon monoxide standard and the boiler standard with no averaging period.

Page 30 1 Q. Okay. And any related information 2 you can supplement to the record. It will be 3 appreciated. 4 MR. WALL: Thank you. 5 MS. KORDAS: That's all the questions 6 I have. 7 MR. FOX: Ms. Kordas, I think we're in 8 order for you to turn your questions for the 9 American Petroleum Institute and Mr. Reese, who has been sworn in. 10 11 MS. KORDAS: Actually, my colleague is 12 going to join me to handle those questions. 13 MR. FOX: Ms. Hanohano, can you 14 identify yourself for the record for our court 15 reporter. 16 MS. HANOHANO: My name is Ann Marie Hanohano, H-a-n-o-h-a-n-o. 17 18 EXAMINATION BY MS. HANOHANO: 19 20 Hello. I am going to read our 0. 21 pre-filed questions in their entirety, 22 starting with Question 1: 23 API states that rule-specific SMB 24 provisions would easily satisfy U.S. EPA's

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guidance. Has any other state established such provisions; and if so, have they been approved by U.S. EPA? Please supplement this rulemaking record with any related information.

MR. REESE: To API's knowledge, no other state has adopted similar alternative emissions limitations as proposed by IERG.

As alluded to in Mr. Wall's prior response, Illinois is unique in its approach by prescribing a specific CO emission of 200 parts per million when compared to other states. Most states simply require use of combustion of CO if for catalytic cracks during normal operations without the addition of a numeric concentration limit. South Coast Air Quality District has a 500 parts per million limitation but allows a specific startup duration, numbers allowed -- sorry, numbers of hours allowed, to be precise, and limits the number of annual startups for cat crackers.

Similar in the Bay Area Air
Quality Management District, they have a 350
part per million standard, but they have a

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startup exemption. So generally, states will incorporate by reference Part 60 and Part 63

NSPS and NESHAP standards. In some cases, they have state standards that are exempted when a unit is subject to a federal NSPS or a NESHAP standard, like Indiana. Illinois' limitation of 200 is a unique problem with respect to FCCU startup and shutdown events when compared to other states.

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Q. Thank you. Question 2, U.S. EPA explicitly discusses enforcement discretion as a means consistent with Clean Air Act requirements for SIP provisions that states can use to address SSM events. Is it your opinion that IEPA's proposed use of its enforcement discretion complies with the 2015 guidance document's discussion of enforcement discretion?

MR. REESE: I echo IERG's response to Questions 1 and 2 directed to them just previously, and I don't have anything to add -- additional to add.

Q. Sure. Thanks. If you have anything to supplement after this, that would be great,

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related to Question Number 2.

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MR. REESE: Yes.

Question 3, API states that 0. "companies typically have a policy of not allowing operation in non-compliance with applicable regulations," and there is a concern that this rulemaking might result in extended outages or shutdowns. Can you please elaborate on this concern in light of the purpose of Title II of the Act, which is to restore, maintain, and enhance purity of the air of this state in order to protect health, welfare, property, and the quality of life and to assure that no air contaminants are discharged into the atmosphere without being given the degree of treatment or control necessary to prevent pollution.

In your experience, have there been extended outages due to concerns of non-compliance from SSM events under the existing regulations?

MR. REESE: To answer your second question first, to my knowledge, there has not been extended outages due to concerns of

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non-compliance from SMB events under the existing regulations.

Under the existing regulations, the SMB regulatory provisions and the permit conditions provide refineries adequate assurance that an enforcement proceeding will not be initiated an exceedance of the 200 part per million CO standard due to SMB events.

As to your first question, the concern that Illinois EPA's proposal may result in extended outages or shutdowns appears to not conflict with the purposes of Title II of the Act on its surface. However, as explained in my testimony, the pre-filed testimony, every day of non-production could negatively impact the supply of fuel products to the Midwest and the greater Chicagoland markets, which is a concern of API.

Finally, it's important to remember that the refinery alternatives that we propose or mention in the testimony, were established as part of a risk and technology review process that the EPA follows when they set Maximum Achievable Technology Standards.

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Section 112 directs the EPA to conduct risk 1 2 assessments for each source category subject to MACT standards to determine if additional 3 4 standards are needed to reduce residual risk. 5 Section 112(d) requires them to revise and 6 review these MACT standards, as necessary, taken 7 into account developments in practices, 8 processes, and control technologies. This was 9 followed and completed in 2016 for the refinery 10 sector. So with respect to your question on 11 Title II, I would say the process used to 12 establish the alternatives was aligned and consistent with that directive. 13 14 Thank you. API states that IEPA's 0. proposed amendments will unfairly and 15 16 unlawfully render numerous state emissions 17 limitations and standards infeasible or 18 impossible to meet. 19 Is it your contention that this 20

Is it your contention that this rulemaking is either unfair or unlawful? If not, then what is the basis for this testimony? Are you aware of any other state that has submitted a SIP with provisions that resemble IEPA's proposal? If so, have they

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1 been reviewed by any court or regulatory authority that determined that the revised air 2 regulations unfairly and unlawfully rendered 3 4 numerous state emissions limitations and standards infeasible or impossible to meet? 5 6 MR. REESE: As to your second set of 7 questions, as identified by Illinois EPA 8 previously in this rulemaking, there are a 9 number of states that have had SIP submissions similar to IEPA's proposed provisions striking 10 11 all SSM provisions. Such SIP submissions have 12 been approved by the U.S. EPA as a SIP provision and, to API's knowledge, have not been subject 13 to a legal challenge. 14 15 As to unfairly rendering the state emissions limitations infeasible or 16 impossible to meet, it is unfair for the state 17 18 to establish emissions limitations that are 19 technically infeasible to meet during certain 20 modes of operation. 21 And I would point out, again, as 22 in our pre-filed testimony, the priority of 23 process safety risks that the alternative is 24 aligned to address following the 200 part per

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Page 37 1 million at all times, especially during startups 2 of an FCCU, is an unsafe practice. 3 Thank you. I might have missed your 4 answer to the first question --5 MR. REESE: Sure. 6 0. Is it your contention that this rule 7 making is either unfair or unlawful? 8 MR. REESE: Sorry, I addressed the 9 unfair in my response just a second ago. 10 Q. Okay. MR. REESE: With respect to unlawful, 11 12 that's a legal conclusion and opinion, and we 13 will be filing that as part of the follow-up. Okay. Great. Thank you. 14 0. Question 5, API details its 15 16 concerns with adverse impacts, which API 17 claims will result from IEPA's proposed 18 amendments. Have you considered what possible 19 adverse impacts will result from API's proposal? Do you have an opinion on whether 20 21 these adverse impacts affect air quality in 22 environmental justice communities? 23 To clarify, it is IERG's MR. REESE: 24 proposal to amend Section 216 and API is

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Page 38 1 testifying support of their proposal. 2 both of your questions, IERG's proposal will not have any adverse air quality impacts relative to 3 4 the existing impacts under current regulations. 5 Further, remember that the one percent O2 alternative is a condition to ensure the 6 7 combustion of hydrocarbon and i.e., hazardous 8 air pollutants during startup, so you can see 9 the EPA's logic in their preamble as part of our pre-filed testimony, the alternative maximizes 10 11 destruction of hydrocarbons and HAPs maximizes 12 process safety and assures compliance at all 13 times. 14 MS. HANOHANO: Thank you. That's all 15 I have. 16 MR. RAO: May I ask a follow-up? 17 You just mentioned that regarding 18 the adverse effects, there will be a difference between the existing regulations and what IERG 19 20 has proposed, will there be any adverse effects 21 compared to what IEPA has proposed now and what 22 IERG is proposing? 23 MR. REESE: That the adverse effect is 24 telling us you have to comply with the standard

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Page 39 1 that we know we cannot do safely. So that's the 2 adverse effect. 3 Following the alternatives, the 4 adverse effects in air quality are not changed. 5 Am I addressing your question? 6 MR. RAO: When you compare it with the 7 agency's proposal? 8 MR. REESE: The agency's proposal 9 removes the SMB provisions so we don't have a 10 startup alternative, and then the 200 we can comply with during normal operations. 11 12 MR. RAO: I was asking about during 13 SMB. During SMB the adverse --14 MR. REESE: 15 there are no adverse air quality if you 16 continue -- if you have to follow the federal 17 alternatives, then our emissions are unchanged 18 from what we had before. The contention is that you say there is no SMB, I know the process 19 safety risk, the primary focus during a cat 20 21 cracker, and there's lots of instance where this 22 has been raised, that you must combust the 23 hydrocarbons. You cannot allow the accumulation 24 of uncombusted hydrocarbon to be in the reactor

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1 train and find its way down to the CO border, 2 which would be a source for emission, right? The priority is not CO. 3 we have to follow. 4 priority is the destruction of hydrocarbon. 5 That's how we do the one percent 02, and that's 6 what EPA said. 7 So back to my point, emissions, 8 following what we do today, which is consistent 9 with the federal MACT standard alternatives, 10 would not be changed. If you remove the SMB provisions and don't have a numerical 11 12 alternative that we propose, then we are stuck, 13 right? How do I start up my cat cracker knowing that I can't meet a limit? That's a problem. 14 15 MR. RAO: So how are refineries and 16 other approved states where SMB provisions for 17 remote under the 2015 SIP call handling this, is it just because they don't have a 200 part per 18 million standard? 19 20 MR. REESE: That's a good question. 21 So the answer is, yes and yes, right, so yes for 22 some states that do not have a state numerical 23 standard and they just refer to the federal

standard, then we follow the federal standard,

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Page 41 1 so it doesn't become a problem, right, because 2 you have the alternative available to you. Take a state like California, 3 4 which has a numerical limit, but in their state 5 rules they have exemptions, like I talked about 6 just a minute ago where they have the number of 7 hours for cat cracker startups allowed, you get 8 two startups a year, so they have their 9 numerical limit, but they also say, here is the exemption or relief from that limit during 10 periods of startup and shutdown. 11 12 So states that have a number, 13 they have provisions similar, not unlike what we 14 are asking for, or they don't have a limit and then you are able to follow the federal. Does 15 that make sense? 16 17 Thank you. MR. RAO: That's a good question. 18 MR. REESE: 19 hope I answered it. We can provide that. 20 MR. RAO: If you can add anything more 21 in your comments, please do. MR. FOX: Ms. Hanohano, I think that 22 23 exhausted the questions you had for API, am I 24 correct about that?

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1	MS. HANOHANO: Yes.	
2	MR. FOX: Very good. Thanks very	
3	much.	
4	What we can do is open this up at	
5	this point to any of the participants that are	
6	present to see whether they have questions for	
7	IERG or the API's witnesses at this point. Is	
8	there anyone who has a follow-up or a question	
9	they wish to ask this morning?	
10	I am neither seeing nor hearing	
11	any indication that there is, we can turn to	
12	Mr. Rao for the questions that were pre-filed	
13	for Ms. Thompson and Mr. Wall on behalf of the	
14	Board.	
15	Mr. Rao, please go ahead.	
16	MR. RAO: I will start with	
17	Ms. Thompson. Good morning.	
18	MS. THOMPSON: Good morning.	
19	MR. RAO: On page 2 of your pre-filed	
20	testimony, you that state that, "because IERG's	
21	members include facilities that have startup,	
22	shutdown, and malfunction, SMB, provisions in	
23	their permits, Illinois EPA's proposal will	
24	directly impact your members. Could you please	
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Page 43 1 provide a list of affected permitted sources and their locations other than the four petroleum 2 3 refineries identified in Mr. Reese's testimony 4 on behalf of API. MS. THOMPSON: So IERG has not 5 6 compiled a list of members that have SMB 7 provisions in their permits. As to IERG's 8 proposal, IERG's proposed revision to Section 9 216.361 would impact the four petroleum refineries. As to Section 216.121, IERG's 10 11 proposed revision would impact facilities with 12 boilers or process heaters with actual heat 13 input greater than 2.9 megawatts or 10 MMBtu per hour where such units cannot comply with the 14 15 200 ppm CO standard in Section 216.121 during 16 periods of SMB. 17 MR. RAO: At the first hearing, IEPA's 18 Mr. Davis testified that the U.S. EPA is now 19 requiring SIP submittals to include impacts on 20 environmental justice areas and environmental 21 justice communities. There's a cite to the 2.2 transcript, pages 175 and 176 January 19th 23 hearing. 24 Could you please comment on

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1	whether the sources covered under IERG's	
2	alternative proposal are in or near EJ areas or	
3	EJ communities?	
4	MS. THOMPSON: The answer to that	
5	question would depend on how EJ areas or EJ	
6	communities are defined. It is likely,	
7	depending on which EJ map is used, that at least	
8	one IERG member facility that would be covered	
9	under ERG's alternative proposal is located in	
10	or near an EJ community.	
11	MR. RAO: When you say EJ map, what	
12	map are you specifically referring to?	
13	MS. THOMPSON: So there's a variety of	
14	maps. There is U.S. EPA's map or Illinois EPA's	
15	EJ start, so there's a variety of them and we	
16	think that depending on which one of those is	
17	used, at least one member will be considered in	
18	that area.	
19	MR. RAO: Would there be one member	
20	based on IEPA's EJ start map?	
21	MS. THOMPSON: We're not sure at this	
22	time, but we can follow up and post our	
23	comments	
24	MR. RAO: If so, can you please	

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Page 45 1 comment on any potential impacts of IERG's 2 alternate proposal on this specific source that 3 you are referring to? 4 MS. THOMPSON: So IERG's proposed 5 provisions will not result in any adverse 6 impacts on EJ areas or EJ communities. IERG's 7 proposal does not change the status quo as to 8 how these affected facilities are operating 9 during SMB events currently, or how they have been operating during SMB events in the past. 10 MR. RAO: That's all I have for 11 12 Ms. Thompson, so we will go to Mr. Wall. 13 On page 30 of your pre-filed testimony, you note that the U.S. EPA 14 15 recognizes, "that it may be appropriate to establish alternative emission limitations for 16 17 modes of source operation other than startup and 18 shutdown, but the same seven criteria should be utilized." 19 Please explain whether 20 21 malfunction and breakdown could be considered as 2.2 other modes of source operation for which 23 alternative emission limitations may be 24 established?

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MR. WALL: Yes, malfunction and breakdown could be considered as other modes of source operation in terms of establishing alternative emission limitations. Alternative emission limitations are established for modes of operation other than normal steady state operation. IERG's Section 216.121 proposal, as currently drafted, applies to startups and shutdowns. As explained in my pre-filed testimony, it is not technically feasible for boilers to meet the 200 ppm standard in Section 216.121 during boiler startups.

As to shutdowns, excess CO emissions are generally not as much of a concern during boiler shutdowns. A boiler shutdown is typically just a matter of ceasing fuel flow feed to the boiler and can be conducted rapidly. Similarly, a boiler malfunction or breakdown in many cases may just lead to a boiler shutdown in order to address the cause of the malfunction or breakdown. In some instances, if there's a rapid change in process operating conditions due to an upset or malfunction, this could cause a rapid change in boiler demand which could result

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Page 47 in temperature differentials within the boiler 1 firebox that could result in excess CO 2 emissions; however, this is not typically the 3 4 case. 5 In terms of SMB events, startups 6 are the main concern for excess CO emissions 7 from boilers. IERG included both startup and 8 shutdown in its Section 2126.121 proposal in 9 order to be consistent with NESHAP Subpart 5D, which addresses both startup and shutdown. 10 11 NESHAP Subpart 5D does not address malfunctions 12 or breakdowns. Because IERG is proposing to 13 incorporate by reference provisions of NESHAP Subpart 5D, IERG does not believe malfunctions 14 15 or breakdowns should be included in the proposed revisions to Section 216.121. 16 Further, IERG is willing to 17 consider further issues related to shutdowns as 18 19 part of its proposal and may address this in 20 post-hearing comments. 21 MR. RAO: Thank you. I think you answered the second part of the question there, 22 23 so I'll move on. 24 On page 32 of your pre-filed

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testimony, you stated that the various startup activities "can result in startup durations varying between several minutes to more than a day."

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Please clarify whether typical startup duration for boilers covered under IERG's proposal lasts more than a day? If so, could you explain "more than a day" means, two days, three days, or a week?

MR. WALL: There is no typical startup duration given that startup conditions vary based on the reason for the startup. The length of a startup can vary, depending on the shutdown that necessitated the startup. As noted in my pre-filed testimony, the basic types of startups are (1) a startup following repairs for an instrument malfunction that trips the boiler off; (2) a startup following a required boiler inspection; and (3) startup following significant maintenance activities such as refractory installation or repairs. referenced in the Board's question, the various activities can result in startup durations varying between several minutes to more than a

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day. In my experience, more than a day is typically less than two days and on the order of 24 to 28 hours; however, this again, my vary based on the circumstances.

MR. RAO: Thank you. The next question, you may have touched on this in a previous answer from API.

Please explain why IERG is focusing only on CO emissions when it comes to SMB. Comment on whether there would be higher emissions of other regulated air pollutants such as NOx and PM from IERG members' sources?

MR. WALL: IERG's proposal focuses on CO emissions because IERG's members expressed a desire to propose alternatives specifically for that standard and were most concerned with meeting either of the CO standards in Sections 216.121 or 216.361.

As to higher pollutants of other regulated air pollutants, IERG members have not expressed a concern with complying with any particular standard such as NOx or PM during SMB events to the extent where they desire to pursue alternative fast-track rulemaking.

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Page 50 1 MR. RAO: Thank you, that's all I 2 have. 3 Ms. Thompson, Mr. Wall, MR. FOX: 4 thank you. Let's make sure that there is not a final follow-up question or any other question 5 6 from the participants who are present here. 7 I am very clearly seeing that 8 there is not any further questioning for you. 9 Thank you for your testimony, for your responses today. We can move on at this point, Ms. Brown, 10 11 Mr. Messina, to Ms. Frede on behalf of the 12 chemical industry. 13 Ms. Frede, good morning. 14 you for your presence today. As I said, the 15 testimony is entered into our record as if it 16 had been read aloud. We can proceed right to 17 the questions beginning with those submitted by 18 the attorney general, turn to the other 19 participants, wrapping up with the Board; and if you are ready to begin, I would ask you to be 20 21 sworn in by the court reporter and then identify 22 yourself and your -- the agency -- entity that 23 you represent for our record. 24 [Lisa Frede sworn.]

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Page 51 1 MS. FREDE: Lisa Frede, F-r-e-d-e. 2 I'm the director of regulatory affairs at the Chemical Industry Council of Illinois. 3 4 MR. FOX: Ms. Frede, thank you, again. 5 I think we're ready to turn to the questions 6 that were filed by the office of the attorney 7 general, and Ms. Kordas appears to be ready to 8 start. 9 Ms. Kordas, please go ahead. 10 MS. KORDAS: Thank you. 11 EXAMINATION 12 BY MS. KORDAS: So I'll just jump right in, CICI 13 0. states that a member has -- a member company 14 has a consent decree with the U.S. EPA, which 15 16 provides that NOx emission limits do not apply during startup, shutdown, and malfunction. 17 18 When was this consent decree agreed to; and if you could supplement this 19 20 rulemaking record with any related 21 information. 22 Sure. Due to the late timing of me Α. 23 receiving the questions yesterday, I have not 24 had time to confer with my members, so I cannot

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answer your questions today. I'm happy to supplement something in writing to you.

Q. Okay. Your testimony also states that Ohio is working to "tailor a workable solution for their state specific needs" with respect to their startup shutdown and malfunction rules.

Has Ohio submitted an updated SIP to U.S. EPA for approval? If so, has U.S. EPA approved it?

- A. Again, the same as Question No. 1 for my answer.
- Q. Okay. CICI also states that other states have taken similar actions, do you know which other states have done so?
- A. Again, I need to get back to you on that.
- Q. And finally, I'll just read the question in its entirety.

You state that "without this exception or affirmative defense, each startup and shutdown will result in deviations of NOx emission limits and opacity limits or all permits in Illinois would have to be updated

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Page 53 1 to address higher NOx emissions or opacity 2 exceedances. 3 Is it your belief that deviations 4 in higher emissions during SSM events will 5 necessarily result in exceedances; and if that 6 is the case, have your member companies 7 explored any potential improvements to 8 pollution control equipment to prevent these 9 exceedances of the emission and opacity limits? 10 Again, I'll be happy to get back to 11 Α. 12 you in writing once I consult with my members. 13 MS. KORDAS: Thank you. 14 MS. FREDE: Thank you. 15 MR. FOX: Ms. Kordas, it appears that 16 that exhausts your questions -- pre-filed questions for the Chemical Industry Council. 17 18 Does any one of the other 19 participants have a follow-up question or a 20 question they wish to pose to the Chemical 21 Industry Council? 22 Very clearly seeing that no 23 one does, Mr. Rao, we have a couple of Board 24 questions, I believe, for Ms. Frede.

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1	MR. RAO: Yes, I have one question.	
2	Good morning, Ms. Frede.	
3	MS. FREDE: Good morning.	
4	MR. RAO: On page 2 of your pre-filed	
5	testimony regarding CICI Member Company A, you	
6	note that control of NOx emissions by selective	
7	catalytic reduction, SCR, systems are affected	
8	during startup and shutdown because the	
9	temperatures will be lower than the minimum	
10	operating temperature.	
11	Could you please clarify whether	
12	IERG's proposal or alternate proposal that	
13	provides exceptions for only carbon monoxide	
14	emissions adequately addresses compliance	
15	concerns of CICI member companies during startup	
16	and shutdown?	
17	A. In relation to Company A, IERG's	
18	proposal will not assist them. CO is not their	
19	issue.	
20	MR. RAO: So they don't have any	
21	issues with NOx?	
22	A. Yes, they have issues with other	
23	emissions. CO is just not one.	
24	MR. RAO: All right. Thank you.	

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Page 55 1 That's all I have. 2 MR. FOX: One last opportunity, are there any follow-up questions or questions from 3 4 any of the participants for Ms. Frede on behalf of the Chemical Industry Council? 5 6 Ms. Frede, I am clearly seeing --7 neither seeing nor hearing that there is any 8 follow-up. We appreciate your willingness to 9 submit some written response, and before we adjourn, we can talk about deadlines for that. 10 11 If you have one in mind, we can entertain that 12 as part of the discussion and decision on that 13 point. 14 MS. FREDE: Thank you. 15 MR. FOX: Ms. Frede, thanks very much. 16 I appreciate it. 17 And Mr. More, I believe we are ready for Ms. Shealey to be sworn in and to 18 field questions. 19 20 Ms. Shealey, good morning. 21 you for your testimony and your availability for 22 questions. I think the court reporter is ready 23 to swear you in and have you identify yourself 24 on the record, please.

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1	[Sharene Shealey sworn.]	
2	MR. FOX: If you would specifically	
3	identify yourself, that would be great. Thank	
4	you.	
5	MS. SHEALEY: My name is Sharene	
6	Shealey, S-h-a-r-e-n-e, S-h-e-a-l-e-y, and I'm	
7	here representing Midwest Generation, LLC.	
8	MR. FOX: Ms. Shealey, thanks begin.	
9	As you've heard me say, no doubt, the pre-filed	
10	testimony is entered into the record as if read.	
11	And we can proceed right to questions. I see	
12	Ms. Hanohano is in place to begin with her first	
13	question for Dynegy, and we in order will turn	
14	you to Ms. Hanohano.	
15	MR. MORE: Midwest Gen.	
16	MR. FOX: Midwest Gen. My apologies.	
17	That was my mistake entirely. I'm sorry.	
18	EXAMINATION	
19	BY MS. HANOHANO:	
20	Q. And again, I'm just going to read our	
21	pre-filed questions in their entirety starting	
22	with Question 1:	
23	Midwest Generation offers what it	
24	called an alternative averaging period arguing	

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in U.S. EPA's 2015 guidance. Please elaborate on why this proposal would satisfy the 2015 guidance. Has any other state submitted a similar proposal to U.S. EPA; and if so, did U.S. EPA approve it? If yes, what was the outcome in other states? Did the implementation of an alternative averaging period result in additional opacity or emissions? Please supplement this rulemaking record with any related information.

- A. Midwest Generation's post-hearing brief will further elaborate on how its proposal satisfies the 2015 guidance. I am not aware of any other state that has established regulatory provisions regarding Midwest Generation's proposal. It's important to keep in mind, though, that Midwest Generations's proposal is a site-specific narrow proposal. Midwest Generation's proposal is site-specific.
- Q. Thank you. The second question, how did MWG conclude that an alternative average period was the best option? Does MWG rely on any evidence or analysis that demonstrates an

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1 alternative average period as an effective 2 means of satisfying the requirement set out in U.S. EPA's 2015 guidance? What evidence 3 4 suggests a three-hour averaging period is best? And again, if you supplement the 5 6 rulemaking record with information, also 7 include the evidence that was considered, 8 please.

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Α. Midwest Generation elected to include a numeric limit in addition to work practices during SMB events in order to maximize the probability that U.S. EPA would approve its proposal if adopted by the Board into the Illinois SIP. When setting that limit, Midwest Generation decided to utilize the existing standards at 30 percent and a three-hour averaging period because this construct is utilized in the Powerton station's CAM plan, compliance assurance monitoring plan, for compliance with the applicable state PM standard. Opacity is not a pollutant and so there is no NAAOS, National Ambient Air Quality Standard for opacity. But opacity can be an indicator of particulate matter.

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As I noted in my testimony, the federally enforceable CAM plan for these boilers to assure continuance compliance with the applicable PM standard utilizes opacity as an indicator and sets the indicator level at 30 percent over a three-hour rolling period.

The CAM plan is part of a CAAPP permit, Clean Air Act permitting program permit, and explains opacity less than 30 percent averaged over a rolling three-hour period is an indicator of proper ESP operation and provides reasonable assurance of meeting the 0.1 pound per million btu PM standard, which is the applicable state limit.

The CAM plan indicator was determined by Illinois EPA in consultation with Midwest Generation. IEPA approved the CAM plan and incorporated it into the Powerton CAAPP permit. The U.S. EPA reviewed the permit, including the CAM plan, and did not object to the permit.

By using 30 percent based on a three-hour average of data, the Board and the U.S. EPA can be assured that this limit would --

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assured that this limit would ensure that
Midwest Generation's opacity during SMB events
does not exceed the applicable state PM limits
and in turn is consistent with the state
implementation plan for PM emission. Our
post-hearing brief will further address how the
proposal satisfies U.S. EPA's 2015 guidance.

- Q. Great. To just to confirm, your post-hearing brief will include any evidence or other information that was considered responsive to questions No. 2?
- A. Yes.

Q. Okay. Thank you.

Do you believe that MWG's proposed alternative averaging period is an effective way of addressing startup and shutdown emissions for all types of emission limits? Is MWG's proposal intended to apply only to coal-fired electric generating units or other sources of pollution as well? Did MWG collaborate with Dynegy on creating its proposal?

A. Midwest Generation designed the alternative averaging period solely to apply to

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Page 61 1 opacity from the coal-fired boilers at Powerton. 2 It did not intend for its proposal to apply to any other emission units or any other 3 4 pollutants. 5 I have no opinion on whether 6 elements of Midwest Generation's proposal will 7 be effective for other emission units or emission limits. Midwest Generation did 8 9 coordinate with Dynegy in developing this 10 proposal. 11 MS. HANOHANO: Thank you. That's all 12 I have. MR. FOX: Ms. Hanohano, thank you very 13 We are ready, Mr. Rao, if you would pose 14 15 the questions the Board had pre-filed for Midwest Generation. 16 17 MR. RAO: On page 1 of your pre-filed 18 testimony, you state that Midwest Generation's 19 proposal provides an alternative averaging 20 period for demonstrating compliance during times 21 of startup, malfunction, and breakdown of 2.2 coal-fired boilers at Midwest Generation's power 23 and generation stations. Please comment on whether MWG has 24

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Page 62 opacity monitoring data from the Powerton station that illustrate the difference in opacity levels during normal operation and during SMB. Α. Yes, Midwest Generation has opacity monitoring data from Powerton station to illustrate the difference in opacity levels for normal operation and SMB events. MR. RAO: If so, could you please submit this illustrative opacity monitoring data for the affected boilers? Yes, we will submit that data on or Α. before next Friday, February 24. MR. RAO: On page 2 of your pre-filed testimony, you state that affected boilers at Powerton station have the capability to fire natural gas as an auxiliary fuel during startup and shutdown, and for flame stabilization. So please clarify whether using natural gas during startup and shutdown reduces opacity levels?

A. Opacity is correlated with particulate matter emissions and burning natural gas leads to more particulate matter emissions than

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1 burning coal. Therefore, we expect the burning of natural gas to result in lower opacity than 2 burning coal, generally speaking. But that is 3 4 not always true. For example, some opacity 5 events, including during startups and shutdowns, 6 could result from dislodging ash that was caught 7 in the boiler resulting in a puff of opacity. 8 So replacing natural gas with coal does not 9 always lead to lower opacity. MR. RAO: And please comment on 10 whether MWG uses natural gas during SMB at 11 12 Powerton station. 13 Α. Midwest Generation uses natural gas 14 during startups of the Powerton boilers. 15 Midwest Generation begins a boiler startup using 16 natural gas. Unfortunately, the company does 17

Midwest Generation begins a boiler startup using natural gas. Unfortunately, the company does not believe it could materially increase the use of natural gas during startups consistent with good operating practices and still achieve and maintain stable boiler operation. Midwest Generation does not typically utilize natural gas -- does not typically utilize natural gas during malfunction outside of startup periods

unless needed for flame stabilization.

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Events requiring flame stabilization or malfunctions; for example, a cycle or coal conditioner malfunction, the company's first response to opacity is to drop load to reduce the load of the boilers -- or boiler. Firing natural gas, even if possible, would not resolve excess opacity without simultaneously reducing the amount of coal fire which is the response that Midwest Generation takes.

2.2

MR. RAO: Please comment on whether

Powerton's current CAAPP permit requires the use
of natural gas during SMB events?

A. Midwest Generation is required to use clean fuels such as natural gas during portions of startups. Midwest Generation is not required to use natural gas for malfunction or breakdown events. Midwest Generation is also required to use auxiliary fuel burners, that is natural gas, to heat the boiler prior to initiating burning of coal as a condition to reliance on the startup authorization in CAAPP condition 7.1.3(b), bravo.

MR. RAO: Thank you. On page 6 of your pre-filed testimony, you state that Midwest

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Generation seeks "to codify a narrower version of current SMB authorization for the affected boilers because it is infeasible for the company to comply with opacity standards 100 percent of the time during periods of SMB."

Please clarify whether shutdown of boilers is covered by MWG's proposal?

A. Midwest Generation's proposal only -includes only startups, malfunctions, and
breakdowns, the same events addressed in the
current Illinois SMB provisions in Powerton's
CAAPP permit. Midwest Generation is not seeking
to broaden or narrow the meaning of any of those
terms or add a categorical exclusion for
shutdowns. To the extent that certain shutdowns
are covered by the current SMB provisions, we
intend for those to be covered by our proposal.

MR. RAO: On page 7 of your pre-filed testimony, you note that under MWG's proposal, demonstrating compliance "would be accomplished for a given six-minute block period when the alternative averaging period is needed by taking the average opacity measurements from the COMS, for those six minutes and the preceding

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Page 66 174 minutes of data." 1 Please explain the rationale for 2 3 proposing three-hour averaging instead of a 4 shorter averaging time to demonstrate compliance with opacity limitation? 5 Midwest Generation elected to include 6 Α. 7 a numeric limit in addition to work practices 8 during SMB events in order to maximize the 9 probability that U.S. EPA would approve its proposal, if adopted by the Board, into the 10 11 Illinois SIP. When setting that limit, Midwest 12 Generation decided to utilize the existing 30 percent standard and a three-hour averaging 13 period, because this construct is utilized in 14 15 the Powerton CAM plan for compliance with the 16 applicable state PM standard. 17 Opacity is not a pollutant and 18 therefore there is no NAAOS for opacity, but 19 opacity can be an indicator of particulate 20 matter. 21 As I noted in my testimony, the 22 federally enforceable CAM plan for these boilers 23 to assure continuance compliance with the 24 applicable PM standard utilizes opacity as the

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1 indicator, and sets the indicator level at 2 30 percent over a rolling three-hour period. 3 The CAM plan is part of the CAAPP permit and 4 explains "opacity less than 30 percent averaged over a rolling three-hour period is an indicator 5 6 of proper ESP operation and provides reasonable assurance of meeting the 0.1-pound per million 7 8 btu PM limit, " which is the applicable state 9 limit. 10

IEPA approved its CAM plan when it issued the CAAPP permit after a careful review and analysis of fact testing data for the plan, and after reviewing and addressing comments provided to it by the public. U.S. EPA reviewed the permit, including the CAM plan, and it did not object to the permit.

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By using 30 percent, based on three-hour average of data, the Board and the U.S. EPA can be assured that the limit -- would ensure that Midwest Generation's opacity during SMB events does not exceed the applicable state PM limit, and in turn, is consistent with the state implementation plan for PM emissions.

MR. RAO: Could you please provide

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Page 68 1 examples using actual opacity monitoring data prior to startup, malfunction, or breakdown that 2 support Midwest Generation's contention that the 3 4 proposed three-hour averaging time will be 5 necessary to meet the 30 percent opacity 6 limitation during SMB events? 7 I'm not prepared to do that today, but 8 we will do so on or before February 24, if that 9 is acceptable. 10 MR. RAO: Thank you, yes. 11 The next question, on page 1 of 12 your pre-filed testimony, you state that MWG's proposal provides "an alternative averaging 13 period for demonstrating compliance during times 14 15 of startup, malfunction, and breakdown of the coal-fired boilers at Midwest Generation's 16 Powerton Generating Stations." 17 18 Please clarify whether the Powerton station is in or near an environmental 19 20 justice area or an environmental justice 21 community? To be clear, I don't know the 22 Α. 23 difference between or the distinction between an 24 environmental justice area and an environmental

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Page 69 justice community, but using Illinois EPA's EJ 1 start tool, Powerton is not within what I 2 3 believe to be either of those. And it is 4 approximately the -- combines the common stack 5 at Powerton is approximately one to two miles 6 away from the nearest EJ community, I believe, 7 which is a low income community. 8 MR. RAO: Considering your response, 9 MWG isn't concerned about any potential impacts on that particular community with this 10 11 alternative proposal? 12 No, there will be no impact on an EJ 13 area or on any other community because our proposal will be more stringent with our SMB 14 15 authorizations currently contained in the 16 Powerton CAAPP permit. 17 The next question, please MR. RAO: 18 comment on whether Midwest Generation is 19 concerned about compliance with emissions 20 limitations for other air pollutants including 21 carbon monoxide or nitrogen oxide at the 2.2 Powerton station? 23 24

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Page 70 1 No, Midwest Gen is solely focused on 2 opacity in connection with SMB. 3 MR. RAO: Thank you. That's all I 4 have. 5 MR. FOX: If I may take one more 6 chance to see whether any of the participants 7 have a follow-up question or an additional 8 question for Ms. Shealey on behalf of Midwest 9 Generation? 10 I am clearly seeing that no one is so indicating, Ms. Shealey, and we have 11 12 wrapped up your testimony and questions based Thank you for those. 13 upon it. 14 MS. SHEALEY: Thank you. 15 MR. FOX: Having heard from 16 Ms. Shealey, we have addressed each of the 17 witnesses who pre-filed testimony today. 18 To be clear, is there anyone 19 present who did not pre-file testimony but 20 wishes to testify today? 21 I plainly am neither seeing nor 22 hearing that anyone does. Alternatively, is 23 there anyone present who wishes simply to offer 24 a public comment on the proposal or the

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Page 71 1 testimony at hearing today for the Board's consideration? 2 3 I am neither seeing nor hearing 4 any. 5 Let me move on quickly to the 6 issue of the required request for an economic 7 impact study. We have nearly reached the point 8 I think at which we can go quickly off the 9 record to take care of some procedural 10 questions. 11 Dealing with that economic impact 12 study, Section 27B of the Environmental 13 Protection Act provides in part that the Board 14 must request that the Department of Commerce and Economic Opportunity, DCEO, conduct an economic 15 16 impact study of proposed rules before the Board 17 adopts rules. The Board then must make either 18 economic impact study or DCEO's explanation for 19 not conducting one available to the public at 20 least 20 days before a public hearing. 21 In a letter to set date of 22 December 16 of '22, the Board's Chair, Barbara 23 Flynn Curry requested the DCEO conduct this 24 economic impact study, this rulemaking proposal,

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Page 72 1 and the Board specifically requested our 2 response from DCEO no later than December -- I'm 3 sorry, no later than January 27 of 2023. 4 To date, the Board has received 5 no response from DCEO to that request. Is there 6 anyone present today who would like to testify 7 or comment either on the Board's request or on 8 the response from DCEO? 9 Clearly neither seeing nor hearing that anyone does wish to do so, I think 10 11 we are in order to go off the record briefly to 12 deal with some procedural steps. And if we may close the record for just a moment. 13 14 (Off the record discussion.) 15 MR. FOX: We are ready to go back on 16 to the record. 17 Having gone off the record for a moment or two to discuss procedural matters with 18 19 the participants that are present here at hearing, I have a couple of those to address 20 21 before we do adjourn. 22 The Board has requested the 23 availability of the transcript of this hearing 24 on an expedited basis, with the President's Day

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Page 73 1 holiday coming up on Monday the 20th, we expect that to be in the Board's hands before the close 2 of business on Wednesday, February 22 of this 3 4 year, 2023. 5 Under Section 28.5(k) of the Act, 6 following hearings, the Board must close the 7 record 14 days after the availability of the 8 transcript. 9 What I probably should do at this point, Mr. Matoesian, is turn to you first of 10 11 all, under Section 28.5(f)(3), any third hearing 12 as scheduled by the original Hearing Officer Order in this proceeding shall be devoted solely 13 to any agency response to material submitted at 14 15 the second hearing. However, that section also 16 provides that the third hearing shall be canceled if the agency indicates to the Board 17 18 that it does not intend to introduce any additional material. 19 20 Is the agency prepared to address 21 that statutory provision on record here before 2.2 we adjourn? 23 MR. MATOESIAN: Yes. The Act provides 24 that the third hearing shall be hearing if

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Page 74 agency indicates to the Board that it does not intend to introduce any additional material. The agency does not intend to introduce any additional material at the third hearing and request that the hearing be canceled. MR. FOX: Very good. I think that addresses our statutory language, and we will be issuing a Hearing Officer Order addressing at least one other issue resulting in this hearing, and we can clarify the agency's unambiguous request that the third hearing be canceled as provided for under Section 28.5(f)(3) of the Act. Since the Board would not be

Since the Board would not be holding the scheduled third hearing, the comment period must close, the Board's record in this proceeding must close 14 days after the availability of the transcript. Again, that is expected to be available on Wednesday the 22nd of February, which would trigger a 14-day comment deadline of Wednesday, March 8 of 2023. That is a firm statutory deadline under Section 28.5(k) of the Act and that issue will

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be addressed in a post-hearing Hearing Officer Order.

2.2

The other issue I wanted to take up was that we had a limited number of questions and requests for information that arose from the hearing today. Aside from post-hearing comments, these are responses and various other information that participants agreed to supply to the Board for the record of this proceeding by Friday, February 24 of this year, one week from tomorrow. And for the sake of the record, that was in response to Questions 26 and 29 directed to Dynegy relating to opacity data.

Also, Board Questions 8 and 14 directed to Midwest Generation, also regarding opacity data to the environmental regulatory group Board's Questions 2 and 3 directed to Ms. Thompson regarding issues of environmental justice.

And the Attorney General's

Questions 1, 2, and 3 directed to Ms. Frede of
the Chemical Industry Council on which she was
willing to submit some information into the
record. We appreciate the participants

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1	willingness to do that and the Board's clerk		
2	will accept those filings electronically on or		
3	before the deadline of February 24, another		
4	procedural issue that the hearing officers will		
5	address in the post-hearing order.		
6	Are there any other filings or		
7	matters we need to address before we adjourn		
8	this second and now final hearing based on the		
9	agency's representation?		
10	I am neither seeing nor hearing		
11	any, as I mentioned, I'll issue, with my		
12	colleague, Chloe Salk, a post-hearing Hearing		
13	Officer Order that ties up the submission		
14	deadline, ties up the issue of the third		
15	hearing, Mr. Matoesian very plainly indicated		
16	that the agency wishes to cancel.		
17	With that, thanks to the		
18	witnesses very much for your testimony and for		
19	your availability for questions and developing a		
20	record for the Board.		
21	I believe it's in order to		
22	adjourn, and we can wrap this up. Thank you and		
23	safe travels.		
24	(Whereupon, at 10:33 a.m., the		

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1	hearing adjourned.)	
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2			
3	I, Carla P. Letellier, CSR, RPR, a		
4	Certified Shorthand Reporter and Registered		
5	Professional Reporter of the state of Illinois,		
6	CSR No. 084-003315, do hereby certify that I		
7	reported in shorthand the proceedings had in the		
8	aforesaid matter, and that the foregoing is a		
9	true, complete and correct transcript of the		
10	proceedings had as appears from my stenographic		
11	notes so taken to the best of my ability.		
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16	CERTIFIED SHORTHAND REPORTER		
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