

Appendix K

RH SIP Second Planning Period Consultation Documentation

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STATE OF INDIANA'S REGIONAL HAZE STATE IMPLEMENTATION PLAN CONSULTATION DOCUMENTATION LOG

< "To"
< "From"

Organization	Representative Last Name	Representative First Name	Middle Initial	Description	Type	Email Subject	Date	Time
LADCO	Kenski	Donna			Email	cement kiln BART	10/2/2019	3:36 PM
EPA Ohio	Kaloz	Holly			Email	cement kiln BART	10/2/2019	3:36 PM
NPS	Shepherd	Don			Email	cement kiln BART	10/2/2019	3:36 PM
NPS	Shepherd	Don			Email	cement kiln BART	10/7/2019	11:17 AM
EPA Ohio	Kaloz	Holly			Email	cement kiln BART	10/7/2019	11:17 AM
Arkansas Dept. of Energy and Environment	Treece	Tricia			Email	Regional Haze Planning Period 2 Interstate Consultation	12/30/2019	10:59 AM
Arkansas Dept. of Energy and Environment	Treece	Tricia			^			
Arkansas Dept. of Energy and Environment	Treece	Tricia			^			
Arkansas Dept. of Energy and Environment	Treece	Tricia			Email	AR and IN Regional Haze Interstate Consultation	1/13/2020	1:15 PM
NPS	Pohlman	David	C	Initial Engagement	Email	Regional Haze Discussion	5/29/2020	2:04 PM
NPS	Pohlman	David	C		Email	[External] Re: Regional Haze Discussion	6/2/2020	12:42 PM
NPS	Peters	Melanie			Email	[External] Re: Regional Haze Discussion	6/2/2020	12:42 PM
NPS	Pohlman	David	C		Email	Re: [External] Re: Regional Haze Discussion	6/3/2020	7:35 AM
NPS	Peters	Melanie			Email	Re: [External] Re: Regional Haze Discussion	6/3/2020	7:35 AM
NPS	Pohlman	David	C		Email	Re: [External] Re: Regional Haze Discussion	6/4/2020	8:30 AM
NPS	Peters	Melanie			Email	Re: [External] Re: Regional Haze Discussion	6/4/2020	8:30 AM
NPS	Pohlman	David	C		Email	Regional Haze Discussion	6/4/2020	10:52 AM
NPS	Pohlman	David	C		Email	Regional Haze Discussion	6/4/2020	12:17 PM
NPS	Shepherd	Don			Email	cement kiln BART	6/16/2020	11:01 PM
NPS	Pohlman	David	C		Email	RH SIP Four-Factor Analysis Selected Sources for Second Implementation Plan Information	6/16/2020	11:35 AM
NPS	Peters	Melanie			^	Re: [External] RH SIP Four- Factor Analysis Selected Sources for Second Implementation Plan Information	6/16/2020	1:46 PM
NPS	Pohlman	David	C		Email			
NPS	Peters	Melanie			^	[External] Regional Haze monthly conference call, Tuesday 7/14, 10 am CDT	7/13/2020	4:25 PM
NPS	Shepherd	Don			Email			
Missouri Dept. of Nat. Resources	Dindarloo	Saeid			^	Request for discussing Indiana plans for reasonable progress analysis under the regional haze rule	8/5/2020	4:27 PM
Missouri Dept. of Nat. Resources	Dindarloo	Saeid			Email	Re: Request for discussing Indiana plans for reasonable progress analysis under the regional haze rule	8/6/2020	10:32 AM
Missouri Dept. of Nat. Resources	Dindarloo	Saeid			^			

Missouri Dept. of Nat. Resources	Dindarloo	Saeid			Email	Screening Method-- A Quick Overview.docx	8/24/2020	1:45 PM
NPS	Shepherd	Don			Email	[External] Indiana's RH SIP Cement Kiln Four-Factor Analysis Question	10/30/2020	7:01 AM
NPS	Shepherd	Don			Email	[External] Indiana's RH SIP Cement Kiln Four-Factor Analysis Question	10/30/2020	9:16 AM
NPS	Shepherd	Don			Email	Indiana's Cement Kiln Four-Factor Analysis	1/4/2021	10:18 AM
ES	Wickman	Trent R-FS			^			
F & WS	Allen	Tim			^			
NPS	Peters	Melanie			^			
KY Div. for Air Quality	Poff	Leslie	M		Email	Re: Emissions Data for Regional Haze SIP	3/1/2021	12:59 PM
KY Div. for Air Quality	Poff	Leslie	M		^			
KY Div. for Air Quality	Poff	Leslie	M		^			
KY Div. for Air Quality	Poff	Leslie	M		^			
NPS	Shepherd	Don			Email	Indiana's Four Factor Analysis for Iron and Steel Mills, Aluminum Production and Plastics Manufacturing Plants, and Electric Services Plant Part 1	3/8/2021	9:04 AM
FS	Wickman	Trent R-FS			^			
F & WS	Allen	Tim			^			
NPS	Peters	Melanie			^			
NPS	Shepherd	Don			Email	Indiana's Four Factor Analysis for Iron and Steel Mills, Aluminum Production and Plastics Manufacturing Plants, and Electric Services Plant Part 2	3/8/2021	9:04 AM
FS	Wickman	Trent R-FS			^			
F & WS	Allen	Tim			^			
NPS	Peters	Melanie			^			
NPS	Shepherd	Don			Email	Re: Indiana's Four Factor Analysis for Iron and Steel Mills, Aluminum Production and Plastics Manufacturing Plants, and Electric Services Plant Part 1	3/8/2021	3:51 PM
FS	Wickman	Trent R-FS			^			
F & WS	Allen	Tim			^			
NPS	Peters	Melanie			^			
KY Div. for Air Quality	Poff	Leslie	M		Email	Warrick Newco LLC 2019 Emissions	3/30/2021	12:51 PM
KY Div. for Air Quality	Poff	Leslie	M		Email	Re: 2019 SO2 Emissions Request	4/1/2021	12:40 PM
KY Div. for Air Quality	Poff	Leslie	M		^			
KY Div. for Air Quality	Poff	Leslie	M		^			
KY Div. for Air Quality	Poff	Leslie	M		^			
KY Div. for Air Quality	Poff	Leslie	M		^			
KY Div. for Air Quality	Poff	Leslie	M		^			
NPS	Shepherd	Don			Email	[External] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period	5/18/2021	3:03 PM
FS	Wickman	Trent R-FS			^			
F & WS	Allen	Tim			^			
NPS	Peters	Melanie			^			
NPS	Shepherd	Don			Email	[External] Draft Indiana Regional Haze State	5/18/2021	5:04 PM
FS	Wickman	Trent R-FS			^			
F & WS	Allen	Tim			^			

NPS	Peters	Melanie			^	Implementation Plan for the Second Planning Period		
NPS	Shepherd	Don			Email			
FS	Wickman	Trent R-FS			^			
F & WS	Allen	Tim			^	[External] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period	5/18/2021	5:13 PM
NPS	Peters	Melanie			^			
NPS	Shepherd	Don			Email			
FS	Wickman	Trent R-FS			^			
F & WS	Allen	Tim			^	[External] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period	5/18/2021	5:39 PM
NPS	Peters	Melanie			^			
NPS	Peters	Melanie			Email			
NPS	Shepherd	Don			^			
FS	Wickman	Trent R-FS			^	[External] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period	5/18/2021	7:45 PM
F & WS	Allen	Tim			^			
NPS	Shepherd	Don			Email			
FS	Wickman	Trent R-FS			^			
F & WS	Allen	Tim			^			
NPS	Peters	Melanie			^	RH SIP Appendix C	5/19/2021	12:54 PM
EPA	Liu	Alisa			^			
EPA	Rau	Matthew			^			
NPS	Pohlman	David	C		Email	[External] Re: Regional Haze discussion	6/2/2021	12:42 PM
NPS	Peters	Melanie			^			
NPS	Pohlman	David	C		Email	[External] Re: Regional Haze discussion	6/3/2021	7:35 AM
NPS	Peters	Melanie			^			
NPS	Pohlman	David	C		Email	[External] Re: Regional Haze discussion	6/4/2021	8:30 AM
NPS	Peters	Melanie			^			
NPS	Pohlman	David	C		Email	[External] Re: Regional Haze discussion	6/4/2021	11:52 AM
NPS	Peters	Melanie			^			
FS	Wickman	Trent R-FS			Email	RH Comments	6/6/2021	8:35 AM
FS	Wickman	Trent R-FS			Email	[External] Re: RH Comments	6/7/2021	6:18 AM
NPS	Peters	Melanie			Email			
FS	Wickman	Trent R-FS			^	Re: [External] Re: RH Comments	6/7/2021	7:11 PM
NPS	Pohlman	David	C		^			
NPS	Peters	Melanie			Email			
FS	Wickman	Trent R-FS			^	Re: [External] Re: RH Comments	6/8/2021	6:33 AM
NPS	Pohlman	David	C		^			
NPS	Peters	Melanie			Email			
FS	Wickman	Trent R-FS			^	Re: [External] Re: RH Comments	6/8/2021	9:33 AM
NPS	Pohlman	David	C		^			
NPS	Peters	Melanie			Email	Request to extend NPS RH consultation	6/9/2021	2:45 PM
NPS	Peters	Melanie			Email	[External] Re: Request to extend NPS RH consultation	6/9/2021	2:37 PM
NPS	Peters	Melanie			Email	Re: [External] Re: Request to extend NPS RH consultation	6/9/2021	5:04 PM
NPS	Peters	Melanie			Email	FYI - EPA R5 invited to	6/30/2021	4:11 PM
FS	Wickman	Trent R-FS			Email			
NPS	Shepherd	Don			^	Appendix C - Class 1 Areas 2016 Back Trajectories Part 2	7/1/2021	10:54 AM
NPS	Peters	Melanie			^			
F & WS	Allen	Tim			^			
NPS	Shepherd	Don			Email			
LADCO	Adelman	Zac			^	ERTAC Model	7/13/2021	9:44 AM
NPS	Air Resources				Email			
NPS	Shepherd	Don			^			
NPS	Miller	Debra	C		^			

NPS	Stacy	Andrea				^	Indiana RH Consultation Call	6/8/2021	9:57 AM
NPS	King	Kirsten	L			^			
NPS	Pohlman	David	C			^			
NPS	Salazer	Holly				^			
NPS	Cheek	Denesia				^			
NPS	Renfro	Jim				^			
NPS	Jernigan	Johnathon	W			^			
FS	Wickman	Trent R-FS				^			
F & WS	Allen	Tim				^			
FWS	Ming	Jaron	E			^			
NPS	Peters	Melanie				^	Re: Indiana RH Consultation Call	7/14/2021	10:59 AM
NPS	Peters	Melanie				Email			
NPS	Air Resources					^			
NPS	Shepherd	Don				^			
NPS	Miller	Debra	C			^			
NPS	Stacy	Andrea				^			
NPS	King	Kirsten	L			^			
NPS	Pohlman	David	C			^			
NPS	Salazer	Holly				^			
NPS	Cheek	Denesia				^			
NPS	Renfro	Jim				^	Clifty Creek Question Nox emissions at the Petersburg power plant [External] RE: Nox emissions at the Petersburg power plant Re: [External] RE: Nox emissions at the Petersburg power plant Re: [External] RE: Nox emissions at the Petersburg power plant Consultation Comments on the Draft Indiana Regional Haze SIP [External] Re: Consultation Comments on the Draft Indiana Regional Haze SIP Re: [External] Re: Consultation Comments on the Draft Indiana Regional Haze SIP Re: [External] Re: Consultation Comments on the Draft Indiana Regional Haze SIP Re: [External] Re: Consultation Comments on the Draft Indiana Regional Haze SIP Re: [External] Re: Consultation Comments on the Draft Indiana Regional Haze SIP Re: [External] Re: Consultation Comments on the Draft Indiana Regional Haze SIP	7/16/2021	9:02 AM
NPS	Shepherd	Don				Email			
NPS	Shepherd	Don				Email			
NPS	Pohlman	David	C			Email			
NPS	Pohlman	David	C			Email			
NPS	Pohlman	David	C			Email			
NPS	Pohlman	David	C			Email			
NPS	Pohlman	David	C			Email			
NPS	Pohlman	David	C			Email			
NPS	Pohlman	David	C			Email			
NPS	Pohlman	David	C			Email	Re: [External] Re: Consultation Comments on the Draft Indiana Regional Haze SIP	7/26/2021	12:11 PM

NPS	Pohlman	David	C		Email	Re: [External] Re: Consultation Comments on the Draft Indiana Regional Haze SIP	7/26/2021	1:04 PM
NPS	Pohlman	David	C		Email	Re: [External] Re: Consultation Comments on the Draft Indiana Regional Haze SIP	7/26/2021	1:17 PM
NPS	Peters	Melanie			Email	Trying again with the consultation attachments	7/27/2021	9:31 AM
NPS	Peters	Melanie			Email	Fw: Trying again with the consultation attachments	7/27/2021	11:35 AM
NPS	Peters	Melanie			Email	Re: Trying again with the consultation attachments	7/27/2021	12:15 PM
NPS	Peters	Melanie			Email	Alternate version of consultation spreadsheets.	7/27/2021	9:40 AM
NPS	Peters	Melanie			Email	[External] RE: Alternate version of consultation spreadsheets.	7/27/2021	10:49 AM
NPS	Peters	Melanie			Email	Re: [External] RE: Alternate version of consultation spreadsheets.	7/27/2021	11:00 AM
NPS	Peters	Melanie			Email	Re: Alternate version of consultation spreadsheets.	7/27/2021	12:44 PM
NPS	Peters	Melanie			Email	Re: [External] RE: Alternate version of consultation spreadsheets.	7/27/2021	12:05 PM
NPS	Peters	Melanie			Email	Re: [External] RE: Alternate version of consultation spreadsheets.	7/27/2021	12:52 PM
NPS	Peters	Melanie			Email	Re: [External] RE: Alternate version of consultation spreadsheets.	7/27/2021	1:44 PM
NPS	Peters	Melanie			Email	{WARNING - ENCRYPTED ATTACHMETN NOT VIRUS' SCANNED} Re: [External] RE: Alternate version of consultation spreadsheets.	7/27/2021	2:25 PM
NPS	Peters	Melanie			Email	Re: [External] RE: Alternate	7/27/2021	2:30 PM
FS	Wickman	Trent R-FS			Email	FW: Signature Request - FW: IN RH Letter	8/5/2021	2:04 PM
NPS	Shepherd	Don			^			
EPA	Liu	Alisa			^			
F & WS	Allen	Tim			^			
NPS	Peters	Melanie			^	Re: Signature Request - FW: IN RH Letter	8/6/2021	12:10 PM
FS	Wickman	Trent R-FS			Email			
NPS	Shepherd	Don			^			
EPA	Liu	Alisa			^			
F & WS	Allen	Tim			^			
NPS	Peters	Melanie			^			

Boling, Jean

From: Boling, Jean
Sent: Tuesday, July 27, 2021 2:30 PM
To: Peters, Melanie
Cc: Pohlman, David C.
Subject: RE: [EXTERNAL] RE: Alternate version of consultation spreadsheets.

It total worked! 😊

Thanks, Melanie!

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Tuesday, July 27, 2021 2:25 PM
To: Boling, Jean <JBoling@idem.IN.gov>
Subject: [WARNING - ENCRYPTED ATTACHMENT NOT VIRUS SCANNED] Re: [EXTERNAL] RE: Alternate version of consultation spreadsheets.

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Ok, I just learned how to do this and added the password "NPS" to the file. Fingers crossed.
-Melanie

Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Tuesday, July 27, 2021 12:05 PM
To: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: RE: [EXTERNAL] RE: Alternate version of consultation spreadsheets.

Now I'm getting this message: IOT has quarantined a message addressed to you due to the restricted attachment file type. If you need to receive this file, please have the sender resend using a password protected zip file. I will have to contact our IT department to see how we can get around it, if you are unable to send it the way the message suggests.

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Tuesday, July 27, 2021 1:44 PM

To: Boling, Jean <JBoling@idem.IN.gov>

Subject: Re: [EXTERNAL] RE: Alternate version of consultation spreadsheets.

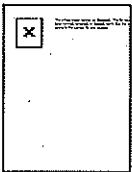
**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Oh interesting... Let me try attaching it differently since this could be a OneDrive linking issue. Thank you for your persistence. I will post the zip file to our website if this doesn't work.

Best,
Melanie

Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



From: Boling, Jean <JBoling@idem.IN.gov>

Sent: Tuesday, July 27, 2021 11:00 AM

To: Peters, Melanie <Melanie_Peters@nps.gov>

Subject: RE: [EXTERNAL] RE: Alternate version of consultation spreadsheets.

When I click on the file, a dialog box comes up with a few options to choose from in Outlook. When I choose open, I'm taken to a Microsoft Office 365 SharePoint Online page where it says "AADSTS50177: User account 'JBoling@idem.IN.gov' from identity provider '<https://sts.windows.net/2199bfba-a409-4f13-b0c4-18b45933d88d/>' does not exist in tenant 'DOI' and cannot access the application '00000003-0000-0000-0000-000000000000' (Office 365 SharePoint Online) in that tenant. The account needs to be added as an external user in the tenant first. Sign out and sign in again with a different Azure Active Directory user account."

From: Peters, Melanie <Melanie_Peters@nps.gov>

Sent: Tuesday, July 27, 2021 12:52 PM

To: Boling, Jean <JBoling@idem.IN.gov>

Cc: Pohlman, David C. <David_Pohlman@nps.gov>

Subject: Re: [EXTERNAL] RE: Alternate version of consultation spreadsheets.

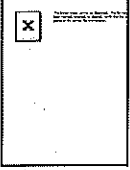
**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Ok, did you try downloading (and then renaming) the "piz" file that was attached to the first email in this string? If you are not seeing that maybe your email system did not let it come through?

Thanks,
Melanie

Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Tuesday, July 27, 2021 10:49 AM
To: Peters, Melanie <Melanie_Peters@nps.gov>
Cc: Pohlman, David C. <David_Pohlman@nps.gov>
Subject: [EXTERNAL] RE: Alternate version of consultation spreadsheets.

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

I know that the zip file that you sent earlier did not work so you can try renaming it.

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Tuesday, July 27, 2021 12:44 PM
To: Boling, Jean <JBoling@idem.IN.gov>
Cc: Pohlman, David C. <David_Pohlman@nps.gov>
Subject: Re: Alternate version of consultation spreadsheets.

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

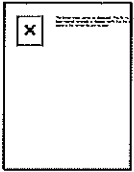
Hi Jean,

I am so glad that the pdf finally came through. Was this re-naming trick for the spreadsheets successful or should I post the zip file for you to download? Again, I am very sorry that this transfer of information has become a challenge and appreciate you working through it with us.

Best,
Melanie

Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Tuesday, July 27, 2021 9:40 AM
To: Boling, Jean <JBoling@idem.IN.gov>
Cc: Pohlman, David C. <David_Pohlman@nps.gov>
Subject: Alternate version of consultation spreadsheets.

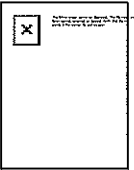
Hi again,

Now I am going to try sending the spreadsheet zip file renamed with a ".piz" extension. If this comes through, please edit the file extension to ".zip" and then you should be able to extract the files. We have to do this when emailing compressed files to the EPA. Apologies for all of the hoops - if this is not successful I will post the files to a webpage temporarily.

Best,
Melanie

--
Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



Boling, Jean

From: Boling, Jean
Sent: Tuesday, July 27, 2021 12:15 PM
To: Peters, Melanie
Cc: Pohlman, David C.
Subject: RE: Trying again with the consultation attachments

Hooray! This is the only one that worked!

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Tuesday, July 27, 2021 11:35 AM
To: Boling, Jean <JBoling@idem.IN.gov>
Subject: Fw: Trying again with the consultation attachments

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Oh my goodness. Trying again.
-Melanie

Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Tuesday, July 27, 2021 9:31 AM
To: Boling, Jean <JBoling@idem.IN.gov>
Cc: Pohlman, David C. <David_Pohlman@nps.gov>
Subject: Trying again with the consultation attachments

Hello Jean,
I am sorry that these have not been coming through. I am going to try sending them again as separate emails. This one has the pdf of our powerpoint presentation attached.
Best,
Melanie

Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



Boling, Jean

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Monday, July 26, 2021 1:17 PM
To: Boling, Jean
Cc: Peters, Melanie
Subject: Re: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP
Attachments: NPS-IN_RH_ConsultationDocumentation_07.2021.pdf

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

I might only be able to share internally that way...

Here's the .pdf. It's 6mb, so maybe the size is an issue. See if this one will work.

David Pohlman
Air Quality Specialist
National Park Service
Interior Region 3: Great Lakes
Interior Region 4: Mississippi Basin
Interior Region 5: Missouri Basin

111 Kellogg Blvd. E., Suite 105
Saint Paul, MN 55101
Phone: 651-293-8448
Now working from home: 651-491-3497

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Monday, July 26, 2021 12:11 PM
To: Pohlman, David C. <David_Pohlman@nps.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: RE: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP

It didn't work. I'm being asked to sign in when I attempt to open both files.

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Monday, July 26, 2021 1:04 PM
To: Boling, Jean <JBoling@idem.IN.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: Re: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

OK, let's try this way. If this doesn't work, I might try sending them one at a time, since that seemed to work for the word document.

David Pohlman
Air Quality Specialist
National Park Service
Interior Region 3: Great Lakes
Interior Region 4: Mississippi Basin
Interior Region 5: Missouri Basin

111 Kellogg Blvd. E., Suite 105
Saint Paul, MN 55101
Phone: 651-293-8448
Now working from home: 651-491-3497

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Monday, July 26, 2021 11:57 AM
To: Pohlman, David C. <David_Pohlman@nps.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: RE: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP

That must be what's happening. The attachments appears as one single attachment, the same way it did in your first email. Unfortunately we are unable to open it. Maybe the link will work. I'm happy to try it.

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Monday, July 26, 2021 12:44 PM
To: Boling, Jean <JBoling@idem.IN.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: Re: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hmmm, I wonder if your email system filtered them out? I just checked the sent document and they were definitely there. Anyway, here are the other 2. Hopefully they will come through this time. Otherwise, I might be able to share links to them.

David Pohlman
Air Quality Specialist
National Park Service
Interior Region 3: Great Lakes
Interior Region 4: Mississippi Basin
Interior Region 5: Missouri Basin

111 Kellogg Blvd. E., Suite 105
Saint Paul, MN 55101
Phone: 651-293-8448
Now working from home: 651-491-3497

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Monday, July 26, 2021 8:57 AM
To: Pohlman, David C. <David_Pohlman@nps.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: RE: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP

We only got 1 attachment-the 41 page word document "National Park Service (NPS) Regional Haze SIP feedback for the Indiana Department of Environmental Management (IDEM)," dated July 23, 2021.

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Monday, July 26, 2021 9:25 AM
To: Boling, Jean <JBoling@idem.IN.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: Re: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP

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There should have been 3 files attached to the original email:

Word document with comments (the one I resent this morning)
PDF of PowerPoint slides from the consultation call
zip folder with calculation spreadsheets.

Are you able to access all of them now? Just want to make sure you can access the whole package.

David Pohlman
Air Quality Specialist
National Park Service
Interior Region 3: Great Lakes
Interior Region 4: Mississippi Basin
Interior Region 5: Missouri Basin

111 Kellogg Blvd. E., Suite 105
Saint Paul, MN 55101
Phone: 651-293-8448
Now working from home: 651-491-3497

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Monday, July 26, 2021 8:21 AM
To: Pohlman, David C. <David_Pohlman@nps.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: RE: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP

Got it. We can open the Word version you sent.

Thank you!

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Monday, July 26, 2021 8:53 AM
To: Boling, Jean <JBoling@idem.IN.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: Re: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP

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Jean,

Hmmm, is it all of the attachments, or just one in particular? I'll attach the main comment doc here again to see if it works now.

Sorry they are not opening for you. Thanks for working through this with us!

David Pohlman
Air Quality Specialist
National Park Service
Interior Region 3: Great Lakes
Interior Region 4: Mississippi Basin
Interior Region 5: Missouri Basin

111 Kellogg Blvd. E., Suite 105
Saint Paul, MN 55101
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Now working from home: 651-491-3497

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Monday, July 26, 2021 7:39 AM
To: Pohlman, David C. <David_Pohlman@nps.gov>
Subject: [EXTERNAL] RE: Consultation Comments on the Draft Indiana Regional Haze SIP

<p>This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.</p>
--

Good morning David,

We were unable to open the attachment. Can you send it another way?

Jean

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Friday, July 23, 2021 6:15 PM
To: Boling, Jean <JBoling@idem.IN.gov>; DERF, MARK <MDERF@idem.IN.gov>; WELCH, JOHN <JWELCH@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>; DELONEY, SCOTT <SDELONEY@idem.IN.gov>

Cc: Peters, Melanie <Melanie_Peters@nps.gov>; Shepherd, Don <Don_Shepherd@nps.gov>; Miller, Debra C <Debra_Miller@nps.gov>; King, Kirsten L <kirsten_king@nps.gov>; Stacy, Andrea <Andrea_Stacy@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Cheek, Denesia <Denesia_Cheek@nps.gov>; Allen, Tim <tim_allen@fws.gov>; Liu, Alisa <Liu.Alisa@epa.gov>; rau.matthew@epa.gov; davidson.olivia@epa.gov; Vimont, John <John_Vimont@nps.gov>; Jernigan, Johnathon W <Johnathan_Jernigan@nps.gov>; Pinion, Timothy <Timothy_Pinion@nps.gov>; Leech, Brice <Brice_Leech@nps.gov>; Renfro, Jim <Jim_Renfro@nps.gov>

Subject: Consultation Comments on the Draft Indiana Regional Haze SIP

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hello Jean,

The National Park Service (NPS) appreciates the opportunity to review the Indiana Department of Environmental Management's (IDEM's) May 18, 2021, federal land manager (FLM) review draft of the Indiana Regional Haze (RH) State Implementation Plan (SIP) for the Second Implementation Period (2018-2028). This email summarizes the consultation call we had in coordination with the other FLM agencies on July 14, 2021, as well as our staff-to-staff email correspondence and detailed analysis of several SIP components. As such, this email and supplementary attachments serve as documentation of NPS conclusions and recommendations resulting from formal regional haze consultation as required by 42 U.S.C. §7491(d).

While Indiana does not contain any NPS managed Class I areas, emissions from sources in the state affect visibility at Mammoth Cave National Park in Kentucky, Great Smoky Mountains National Park in North Carolina and Tennessee, and Shenandoah National Park in Virginia. We appreciate your continued involvement in LADCO and commend Indiana for putting together a well laid out and detailed SIP, and for engaging early in the process with the NPS.

Consistent with the FLM consultation requirements found in 42 U.S.C. §7491(d), a summary of our conclusions and recommendations for the Indiana haze SIP are as follows:

- Source Selection:
 - We agree that IDEM applied a reasonable method for source selection that resulted in a reasonable set of sources to address in the SIP.
- Electric Generating Units (EGUs):
 - It is not reasonable for IDEM to exempt EGUs from four-factor analyses. We recommend IDEM conduct four-factor analyses for EGUs within the state and include these in the draft RH SIP.
 - Based on initial NPS analyses, there may be cost-effective controls for some of the Indiana EGUs, including (but not limited to) Alcoa Unit 4, Clifty Creek and Petersburg. (Specific measures and requests for EGUs are discussed in section 2 of the attachment "National Park Service (NPS) Regional Haze SIP feedback for the Indiana Department of Environmental Management (IDEM)".)
 - Any EGU shutdowns relied upon in the SIP should be made federally enforceable.
- Non-EGUs:
 - IDEM found cost-effective controls for several non-EGUs but is not including any of these emission reduction measures in the draft SIP.

- We request that IDEM incorporate these cost-effective controls for non-EGUs identified through the four-factor analyses, including the Alcoa Warrick facility, the Burns Harbor facility, and Greencastle Cement (specific measures and requests are discussed in section 3 of the attachment "National Park Service (NPS) Regional Haze SIP feedback for the Indiana Department of Environmental Management (IDEM)").
- We recommend that the emission controls evaluated in the four-factor analyses may be even more cost-effective than estimated by IDEM due to analysis errors that inflated the costs. These analysis errors should be corrected.

Detailed information to support our review, conclusions, and recommendations is provided in the narrative below and in the attachments (see list below).

The EGUs warrant consideration in this planning period for several reasons. First, we disagree with IDEM's assertion that the EGU sector was evaluated in detail for the first implementation period of the Regional Haze Rule. Instead, Indiana's EGUs were subject to the Clean Air Interstate Rule (CAIR) and its successor, the Cross-State Air Pollution Rule (CSAPR). Under CAIR/CSAPR, individual EGUs were not evaluated for their SO₂ or NO_x emissions.

Second, IDEM's decision to exclude EGUs but evaluate non-EGU sources is an inconsistency in decision-making for these sources. Of the facilities required by IDEM to conduct four-factor analyses, Alcoa Warrick Operations had the highest Q/d at 80.9. However, three EGUs have a higher Q/d values, but were not required to conduct four-factor analyses (AEP Rockport, 259.5; Gibson, 134.8; AES Petersburg, 83.7). Of the facilities required by IDEM to conduct four-factor analyses, SABIC – Mt. Vernon had the lowest Q/d at 5.3, which is lower than the Q/d of every EGU selected by IDEM but exempted from four-factor analysis. This highlights the disparity in the IDEM treatment of emission sources which were all reasonably selected as potentially affecting visibility at Class I areas.

Third, EGUs are the biggest Indiana emitters of haze-causing pollutants affecting NPS Class I areas. LADCO modeling results show that Indiana EGUs contribute significantly to visibility impairment at multiple Class I areas. Indiana EGUs account for 7% of total visibility impact at Mammoth Cave NP one of the most visually impaired NPS Class I areas. Based on the Area of Influence (AOI) analyses completed by VISTAS, five of the top ten facilities impacting Mammoth Cave NP are Indiana EGUs. We conclude that this is a significant contribution to haze at Mammoth Cave NP and should be considered in this round of haze planning.

Fourth, while it is difficult to make an assessment without four-factor analyses, we were able to identify potential cost-effective controls based on available information for several of the facilities. (Please see the attachments for details and specific recommendations.) Complete four-factor analyses would likely identify further cost-effective controls on Indiana EGUs. We recommend that Indiana require four-factor analyses for all EGUs in its original list that don't have *federally enforceable* retirement dates on-the-books.

Finally, IDEM identified several cost-effective controls in their four-factor analyses yet determined that these controls were not necessary "considering the significant progress already made towards achieving the national visibility goal." We note that the 2017 preamble to the Regional Haze Rule, the August 2019 Guidance, and the recent July 2021 clarification memo all clearly state that having made significant progress (i.e., being below the uniform rate of progress (URP)) is not a "safe harbor" that can be used to dismiss otherwise reasonable controls. Furthermore, the visibility benefit of emissions reductions from individual facilities is not one of the four statutory factors that should be considered in reasonable progress determinations.

Please know that we welcome the opportunity for further dialogue with you as Indiana progresses to a final SIP revision. If you have any questions, do not hesitate to reach out to us. Also, feel free to let us know if you have any edits to this summary and especially if any corrections are needed.

Best,

David

List of Attachments:

- **NPS_IN_RH_ConsultationDocumentation_07.2021.pdf:** A copy of our PowerPoint presented during our July 14, 2021, FLM consultation call
- **NPS_IN_RH-SIP-Feedback_7.23.docx:** Expanded discussion on facility selection for 4-factor analyses, Detailed comments and requests for several Indiana facilities (Rockport, Gibson, Petersburg, Alcoa Warrick Power Plant, Clifty Creek, Culley, Alcoa Warrick Operations)
- **NPS_IN_RH_ConsultationSpreadsheets.7.23.2021.zip:** Spreadsheets with NPS cost-effectiveness calculations and supporting documentation

David Pohlman
Air Quality Specialist
National Park Service
Interior Region 3: Great Lakes
Interior Region 4: Mississippi Basin
Interior Region 5: Missouri Basin

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Boling, Jean

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Friday, July 23, 2021 8:28 AM
To: Boling, Jean
Subject: Re: [EXTERNAL] RE: NOx emissions at the Petersburg power plant

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Thanks Jean!

David Pohlman
Air Quality Specialist
National Park Service
Interior Region 3: Great Lakes
Interior Region 4: Mississippi Basin
Interior Region 5: Missouri Basin

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Saint Paul, MN 55101
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From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Thursday, July 22, 2021 2:46 PM
To: Pohlman, David C. <David_Pohlman@nps.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: RE: [EXTERNAL] RE: NOx emissions at the Petersburg power plant

Yes. I'm apologize. Melanie asked me to send her the names of IDEM's Office of Air Quality attendees but I forgot. Here they are:

Scott Deloney - Branch Chief, Programs Branch
Mark Derf - Section Chief, Technical Support and Modeling Section
John Welch - Modeler, Technical Support and Modeling Section
Susan Bem - Section Chief, Air Quality Planning Section
Jean Boling - Environmental Engineer, Air Quality Planning Section

Jean

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Thursday, July 22, 2021 3:22 PM
To: Boling, Jean <JBoling@idem.IN.gov>
Subject: Re: [EXTERNAL] RE: NOx emissions at the Petersburg power plant

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Hi Jean,

Could you remind me who all from IDEM was on our consultation meeting last week? I'm working on our official consultation comments on the IN regional haze SIP, and I just want to document the participants.

Thanks!

David Pohlman
Air Quality Specialist
National Park Service
Interior Region 3: Great Lakes
Interior Region 4: Mississippi Basin
Interior Region 5: Missouri Basin

111 Kellogg Blvd. E., Suite 105
Saint Paul, MN 55101
Phone: 651-293-8448
Now working from home: 651-491-3497

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Thursday, July 22, 2021 10:07 AM
To: Shepherd, Don <Don_Shepherd@nps.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>; Pohlman, David C. <David_Pohlman@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; DERF, MARK <MDERF@idem.IN.gov>
Subject: [EXTERNAL] RE: NOx emissions at the Petersburg power plant

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Good morning Don,

The existing federal rules along with Indiana's Nitrogen Oxide Rules been instrumental in getting EGU sources to use their NO_x emission controls more since 2016. The resulting reduction in emissions is part of the reason Indiana has chosen to wait to bring forward the EGUs for four-factor analysis. As mentioned in the state's RH SIP, the industry-wide emission control measures mandated by strict regulations and far less reliance on coal over the past decade or more due to alternative power generation; numerous shutdowns and fuel conversions of boilers have reduced NO_x emissions by tens of thousands of tons in Indiana and additional reductions are expected as a result of federal regulations to be implemented over the course of the next few years (such as the revised CSAPR Update). As such, IDEM intends to evaluate EGUs more in depth for the third implementation period of the RH Rule and defer any additional requirements for these units until then, when that evaluation is completed as part of Indiana's RH SIP for the third planning period.

Jean

From: Shepherd, Don <Don_Shepherd@nps.gov>

Sent: Thursday, July 22, 2021 12:25 AM

To: Boling, Jean <JBoling@idem.IN.gov>

Cc: Peters, Melanie <Melanie_Peters@nps.gov>; Pohlman, David C. <David_Pohlman@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>

Subject: NOx emissions at the Petersburg power plant

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Good morning, Jean,

I have a similar question regarding Petersburg.

Graph 6-2 shows the unit-by-unit comparison of NO_x emissions at the Petersburg power plant. There are significant projected decreases in NO_x emissions with the retirement of Units 1 and 2 and modest NO_x emission reduction from Units 3 and 4 as observed from actual CAMD data for 2011 and 2016 and ERTAC's projected 2028 emissions.

Why are NO_x emissions expected to decrease if utilization is expected to increase? Looking at AMP data over the past few years shows a pronounced decrease in NO_x emission rates at Petersburg. Is there some IDEM "on-the-books" requirement that is driving this decrease? If not, would IDEM consider a requirement that EGUs make better utilization of emission controls?

thanks,

Boling, Jean

From: Shepherd, Don <Don_Shepherd@nps.gov>
Sent: Friday, July 16, 2021 9:02 AM
To: Boling, Jean
Cc: Peters, Melanie; Pohlman, David C.; Wickman, Trent R -FS
Subject: Clifty Creek question

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Good morning, Jean,

I would appreciate it if you would help me with this question. The statement below from your draft SIP appendix on EGUs says that utilization will increase, with a resulting increase in SO₂ emissions, but NO_x emissions will decrease--how would that happen?

Clifty Creek 2028 EGU NO_x emissions are projected to be reduced by 59% or 5,534 tons from 2016 emission levels and SO₂ emissions are expected to increase slightly, by 6% or 286 tons from 2016 to 2028. The ERTAC model projects small increases in utilization at the facility for all six units.

thanks,

Boling, Jean

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Wednesday, July 14, 2021 10:59 AM
To: Air Resources, NPS; Shepherd, Don; Miller, Debra C; Stacy, Andrea; King, Kirsten L; Pohlman, David C.; Salazer, Holly; Cheek, Denesia; Renfro, Jim; Jernigan, Johnathon W; Boling, Jean; Wickman, Trent R -FS; Allen, Tim; Ming, Jaron E
Cc: WELCH, JOHN; Liu, Alisa; Rau, Matthew; Pinion, Timothy; Prosperi, Alexia - FS; Leech, Brice
Subject: Re: Indiana RH Consultation Call

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Hello All,

We are looking forward to the NPS/Indiana Regional Haze Consultation Call this afternoon. Please see a working agenda below and feel free to suggest additional items. NPS is planning to share a powerpoint presentation during the call so please join using Teams if possible. If not, there is a phone line also listed in the invitation.

Best,
Melanie

Agenda:

- Welcome & Introductions
- NPS Regional Haze Background
- NPS Class I Areas affected by Indiana
 - Shenandoah, Great Smoky Mountains, and Mammoth Cave NPs
- NPS SIP Feedback for Indiana
 - Engagement
 - Source Selection
 - Source Sector Comments
 - EGU, Steel Mills, Cement
 - Long Term Strategy
- Next-Steps

--

Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



From: Air Resources, NPS

Sent: Tuesday, June 8, 2021 9:57 AM

To: Shepherd, Don <Don_Shepherd@nps.gov>; Miller, Debra C <Debra_Miller@nps.gov>; Stacy, Andrea <Andrea_Stacy@nps.gov>; King, Kirsten L <kirsten_king@nps.gov>; Pohlman, David C. <David_Pohlman@nps.gov>; Salazer, Holly <Holly_Salazer@nps.gov>; Cheek, Denesia <Denesia_Cheek@nps.gov>; Renfro, Jim <Jim_Renfro@nps.gov>; Jernigan, Johnathon W <Johnathan_Jernigan@nps.gov>; Boling, Jean <JBoling@idem.IN.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Allen, Tim <tim_allen@fws.gov>; Ming, Jaron E <jaron_ming@fws.gov>; Peters, Melanie <Melanie_Peters@nps.gov>

Cc: WELCH, JOHN <JWELCH@idem.IN.gov>; Liu, Alisa@epa.gov <Liu.Alisa@epa.gov>; Rau, Matthew <rau.matthew@epa.gov>; Pinion, Timothy <Timothy_Pinion@nps.gov>; Prosperi, Alexia - FS <Alexia.Prospери@usda.gov>; Leech, Brice <Brice_Leech@nps.gov>

Subject: Indiana RH Consultation Call

When: Wednesday, July 14, 2021 12:00 PM-1:00 PM.

Where:

Rescheduled - Thank you Indiana for your flexibility!

NPS staff are looking forward to this opportunity to provide feedback and recommendations regarding the FLM review draft of the Indiana Regional Haze SIP. Please feel free to forward this invitation as appropriate and suggest agenda topics. I will distribute an agenda in advance of this call.

Best,
Melanie Peters

Microsoft Teams meeting

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Boling, Jean

From: Shepherd, Don <Don_Shepherd@nps.gov>
Sent: Tuesday, July 13, 2021 9:44 AM
To: Zac Adelman
Cc: Boling, Jean; Peters, Melanie; King, Kirsten L; Stacy, Andrea; Miller, Debra C; Trent Wickman; Pohlman, David C.
Subject: ERTAC model

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Good morning, Zac,

I wanted to send you these questions so as not to catch you by surprise on our call this morning.

We have been reviewing Indiana's draft RH SIP which contains extensive references to ERTAC modeling which predicts how some EGUs will respond to retirement of other EGUs. As you know, EGUs are in an ongoing state of flux, and keeping up with retirements is a major challenge. For example, in April 2021, AEP announced that Rockport's Unit 2 will also be retired by the end of 2028. So, my questions are:

- How up-to-date is the ERTAC EGU model?
- How much time and effort are required to update the model?
- Is LADCO planning to update the ERTAC EGU model for the 2023 mid-term progress reports?

thanks,

Boling, Jean

From: Boling, Jean
Sent: Thursday, July 01, 2021 10:54 AM
To: Wickman, Trent R -FS; Shepherd, Don; Peters, Melanie; 'Tim Allen'
Subject: Appendix C - Class I Areas 2016 Back Trajectories Part 2
Attachments: Pages from Appendix C - Class I Areas 2016 Back Trajectories-2.pdf

Jean Boling
Senior Environmental Engineer
IDEM, OAQ, Programs Branch
jboling@idem.IN.gov
317-232-8228 office
317-438-0006 cell

COVID-19 Resources:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (available 8:00 am-5:00 pm daily).
- **Anthem NurseLine:** Call 800-337-4770 or visit the [Anthem NurseLine](#) online for a FREE symptom screening. Available to anyone with an Anthem health plan (this includes State of IN employees)
- **Anthem Employee Assistance Program (EAP):** Available to full-time state employees and their household members regardless of health plan participation. Call 800-223-7723 or visit anthemeap.com (enter State of Indiana) for crisis counseling, help finding child/elder care, legal/financial consultation and much more.

Boling, Jean

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Wednesday, June 30, 2021 4:11 PM
To: Boling, Jean
Subject: FYI - EPA R5 invited to consultation call

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hello Jean,

I invited Alisa Liu to sit in on our NPS/IN RH consultation call next month. She asked if it was OK for her to invite some additional EPA-R5 staff. I said that it was OK with me and I would let you know and see if you have concerns. If you do have concerns let me know and I will un-invite them or ask them to send a single representative. In other consultation calls I have participated in this year EPA sometimes listens in but very rarely speaks up unless called on. I expect this would be the same. Hope all is well.

Best,
Melanie

--
Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



Boling, Jean

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Wednesday, June 09, 2021 5:04 PM
To: Boling, Jean
Cc: King, Kirsten L; Shepherd, Don; Miller, Debra C; Stacy, Andrea; Pohlman, David C.; Wickman, Trent R -FS; Allen, Tim
Subject: Re: [EXTERNAL] Re: Request to extend NPS RH consultation

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Thank you so much Jean, I just updated the calendar invitation to reflect this change.

Best,
Melanie

--
Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Wednesday, June 9, 2021 2:37 PM
To: Peters, Melanie <Melanie_Peters@nps.gov>
Cc: King, Kirsten L <kirsten_king@nps.gov>; Shepherd, Don <Don_Shepherd@nps.gov>; Miller, Debra C <Debra_Miller@nps.gov>; Stacy, Andrea <Andrea_Stacy@nps.gov>; Pohlman, David C. <David_Pohlman@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Allen, Tim <tim_allen@fws.gov>
Subject: [EXTERNAL] Re: Request to extend NPS RH consultation

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--

Hi Melanie,

7/14
10-11 am or 2-3 pm ET works best for us.

Thanks.

Jean

From: Peters, Melanie <Melanie_Peters@nps.gov>

Sent: Wednesday, June 9, 2021 2:45 PM

To: Boling, Jean <JBoling@idem.IN.gov>

Cc: King, Kirsten L <kirsten_king@nps.gov>; Shepherd, Don <Don_Shepherd@nps.gov>; Miller, Debra C <Debra_Miller@nps.gov>; Stacy, Andrea <Andrea_Stacy@nps.gov>; Pohlman, David C. <David_Pohlman@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Allen, Tim <tim_allen@fws.gov>

Subject: Request to extend NPS RH consultation

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hello Jean,

As we just discussed by phone it would be a great relief to the NPS RH team if we could extend our regional haze consultation deadline with IN to 7/23. That will give us the time we need to thoroughly review your draft SIP and work around the leave plans of staff around the fourth of July holiday.

If possible, I would like to reschedule our call currently set for 6/24 to the week of 7/12 and then follow up with our written comments and documentation by 7/23. Some potential meeting times are listed below, if none of these work feel free to suggest an alternative or to call me so that we can figure it out together. I appreciate your flexibility and hope all is well.

Best,
Melanie

Potential times dates for a rescheduled NPS/IN RH Consultation Meeting:

- Tuesday 7/13
 - 12-1pm ET (10-11am MT)
 - 3-4pm ET (1-2pm MT)
- Wednesday 7/14
 - 10-11am ET (8-9am MT)
 - 2-3pm ET (12-1pm MT)
 - 3-4pm ET (1-2pm MT)

Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



Boling, Jean

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Tuesday, June 08, 2021 9:33 AM
To: Boling, Jean; Wickman, Trent R -FS; Pohlman, David C.
Cc: Allen, Tim
Subject: Re: [EXTERNAL] Re: RH comments

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Thank you Jean,
I will send a calendar invite later today.
Best,
Melanie

[Get Outlook for iOS](#)

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Tuesday, June 8, 2021 6:33:05 AM
To: Peters, Melanie <Melanie_Peters@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Pohlman, David C. <David_Pohlman@nps.gov>
Cc: Allen, Tim <tim_allen@fws.gov>
Subject: RE: [EXTERNAL] Re: RH comments

Good morning.

For the week of 6/21, 6/24 at 12 noon works best for us.

Thanks.

Jean

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Monday, June 07, 2021 7:11 PM
To: Boling, Jean <JBoling@idem.IN.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Pohlman, David C. <David_Pohlman@nps.gov>
Cc: Allen, Tim <tim_allen@fws.gov>
Subject: Re: [EXTERNAL] Re: RH comments

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Hello Jean, Trent,
It would really be better for the NPS team if we can wait and meet the week of June 21st. We are reviewing several other state SIPs right now and need additional time to prepare for an Indiana focused call. Feel free to go ahead and schedule your meeting if you need to move forward more quickly. If you do this I would love to listen in. Thanks for understanding.
Best,

Melanie

p.s. The week of 6/21 our best openings are:

- 6/22
 - 1pm-2pm ET (11am-12pm MT)
 - 2pm-3pm ET (12pm-1pm MT)
 - 3pm-4pm ET (1pm-2pm MT)
- 6/24
 - 12pm-1pm ET (10am-11am MT)
 - 3pm-4pm ET (1pm-2pm MT)

Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Monday, June 7, 2021 6:18 AM
To: Wickman, Trent R -FS <trent.wickman@usda.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>; Allen, Tim <tim_allen@fws.gov>
Subject: [EXTERNAL] Re: RH comments

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Good morning, Trent.

Please address comments to me and see the dates and times our team can meet below.

6/14
8-11 am and 12-2 pm

6/15
8 am - 1 pm

6/17

8-10 am and 12-3 pm

6/18

8-10 am and 12-3 pm

Thanks.

Jean

From: Wickman, Trent -FS <trent.wickman@usda.gov>

Sent: Sunday, June 6, 2021 8:35 AM

To: Boling, Jean <JBoling@idem.IN.gov>

Cc: Peters, Melanie <Melanie_Peters@nps.gov>; Tim Allen (Tim_Allen@FWS.GOV) <Tim_Allen@FWS.GOV>

Subject: RH comments

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hi Jean

I hope you are well.

A couple quick things:

- I am working on our comment letter. Who do you want it addressed to?
- Also do you have some time to touch base in a couple weeks to go over our comments? I know the other FLMs are at a point where we probably can't meet until the week of 6/14. Does IN have any availability that week?

Thanks

Trent

Trent Wickman, PE
Air Resource Specialist - MN,WI,MI
Eastern Regional Office

USDA - Forest Service

p: 218-626-4372

c: 218-341-8646

f: 218-626-4398

trent.wickman@usda.gov

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Duluth, MN 55808

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Boling, Jean

From: Boling, Jean
Sent: Thursday, June 04, 2020 11:52 AM
To: Pohlman, David C.; Peters, Melanie
Cc: DERF, MARK; Bem, Susan
Subject: Re: [EXTERNAL] Re: Regional Haze discussion

Hi David,

I apologize for not getting back to you sooner. Is that 3:00 p.m. for Indiana, EST? If so, we are all available at 3:00 p.m. Both Mark and Susan have a meeting at 1:00 p.m. (EST) that day.

Thanks.

Jean Boling
Senior Environmental Engineer
Indiana Department of Environmental Management
Office of Air Quality
Programs Branch

Coping with COVID-19:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (open 24/7)
- **Anthem NurseLine:** Call 800-337-4770 or visit the Anthem NurseLine online for a FREE symptom screening. Available to anyone with an Anthem health plan (this includes State of IN employees)
- **Anthem Employee Assistance Program (EAP):** Available to ALL state employees and adults in household regardless of health plan participation. Call 800-223-7723 or visit anthemeap.com (enter State of Indiana) for crisis counseling, help finding child/elder care, legal/financial consultation and much more.

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Thursday, June 4, 2020 8:30 AM
To: Boling, Jean <JBoling@idem.IN.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>
Subject: Re: [EXTERNAL] Re: Regional Haze discussion

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It looks like Tuesday 6/16 at 2 Central/1 Mountain works for all our people. If that's good for you, go ahead and put it on your calendar and let me know. I'll get a conference call number and send out an appointment.

Thanks!

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Wednesday, June 3, 2020 7:35 AM
To: Boling, Jean <JBoling@idem.IN.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>
Subject: Re: [EXTERNAL] Re: Regional Haze discussion

Thanks Jean,

I'm still confirming this on our end, but does 2 pm central/1 mountain on Tuesday 6/16 work for you?

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Tuesday, June 2, 2020 12:42 PM
To: Pohlman, David C. <David_Pohlman@nps.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>
Subject: [EXTERNAL] Re: Regional Haze discussion

Hello David.

I will be joined by two of the Programs Branch Section Chiefs. We are all available for any of the dates you have proposed. Please let us know what date a time you prefer.

Thank you and have a great day.

Jean Boling
Senior Environmental Engineer
Indiana Department of Environmental Management
Office of Air Quality
Programs Branch

Coping with COVID-19:

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From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Friday, May 29, 2020 2:04 PM
To: Boling, Jean <JBoling@idem.IN.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: Regional Haze discussion

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Hi Jean,

I hope this note finds you well! I heard your update on Regional Haze progress during the most recent LADCO call. My NPS colleagues and I would love to talk with you soon to learn about which sources Indiana has identified for Regional Haze 4-factor analysis and how those are progressing (if they are underway). Would you have time for an informal check-in phone call during the second or third week in June? As of now, we have good availability on Wednesday June 10th or Tuesday/Wednesday of the following week (6/16, 17). If those dates are not good for you (or if you aren't ready to talk) please let me know and we will adjust accordingly.

Thanks!

David

David Pohlman

Air Quality Specialist

National Park Service

Interior Region 3: Great Lakes

Interior Region 4: Mississippi Basin

Interior Region 5: Missouri Basin

111 Kellogg Blvd. E., Suite 105

Saint Paul, MN 55101

Phone: 651-491-3497

Now working from home: 651-491-3497

Boling, Jean

From: Boling, Jean
Sent: Wednesday, May 19, 2021 12:54 PM
To: Shepherd, Don; Peters, Melanie; Wickman, Trent R -FS; 'Tim Allen'; Liu.Alisa@epa.gov; rau.matthew@epa.gov
Subject: RH SIP Appendix C

Good afternoon everyone,

I have been unable to figure out how to send Appendix C to you all because the file is too big. As a result, IDEM has decided not to include it as part of the FLM/EPA review at this time. Appendix C will be available for review during the public comment period when it is posted to IDEM's website. Until then, one of the back trajectories included in the file is shown below to provide an example of what to expect.

We apologize for the inconvenience.

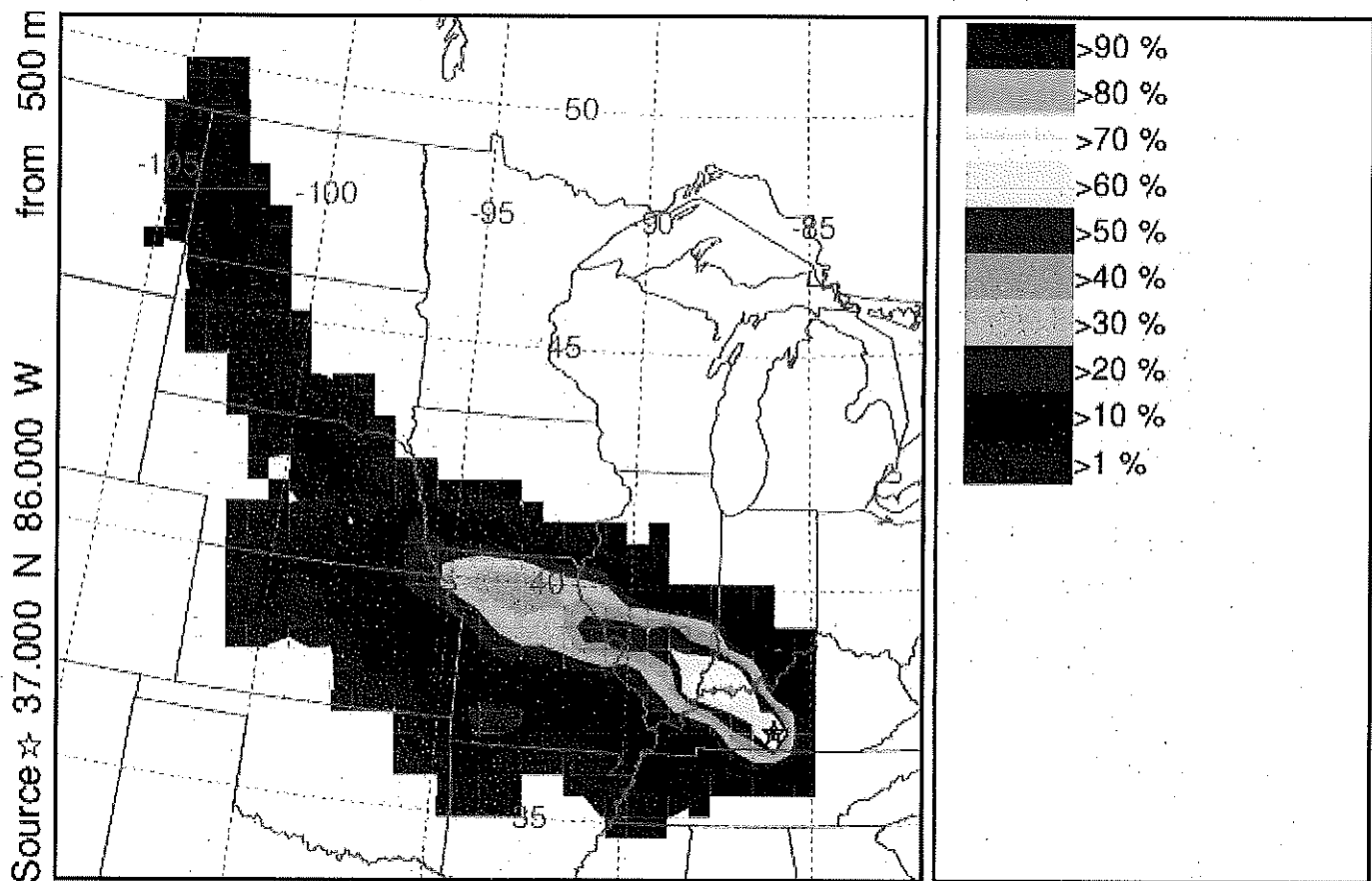
Mammoth Cave, KY – January 1st, 2016

NOAA HYSPLIT MODEL - TRAJECTORY FREQUENCIES

trajs passing through grid sq./# trajectories (%) 0 m and 99999 m

Integrated from 2300 01 Jan to 0500 29 Dec 15 (UTC) [backward]

Freq Calculation started at 0000 00 00 (UTC)



METEOROLOGICAL DATA

Job ID: 121264 Job Stat: Mon Nov 2 14:34:35 UTC 2020
Source 1 lat.: 37.131770 lon.: -86.147900 height: 500 m AGL
Initial trajectory started: 2300Z 01 Jan 16
Direction of trajectories: Backward Trajectory Duration: 48 hrs
Frequency grid resolution: 1.0 x 1.0 degrees
Endpoint output frequency: 60 per hour
Number of trajectories used for this calculation: 8
Meteorology: 0000Z 1 Jan 2016 - GDAS0p5

Best Regards,

Jean Boling

Senior Environmental Engineer

IDEM, OAQ, Programs Branch

jboling@idem.IN.gov

317-232-8228 office

317-438-0006 cell

COVID-19 Resources:

- Indiana State Dept. of Health (ISDH) COVID-19 Call Center: Call 877-826-0011 (available 8:00 am-5:00 pm daily).
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Boling, Jean

From: Peters, Melanie <Melanie_Peters@nps.gov>
Sent: Tuesday, May 18, 2021 7:45 PM
To: Boling, Jean; Shepherd, Don; Wickman, Trent R -FS; Allen, Tim
Subject: Re: [EXTERNAL] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period

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Yes, Thank you Jean.
- Melanie

--
Melanie V. Peters
NPS, Air Resources Division

Office: 303-969-2315
Cell: 720-644-7632



From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Tuesday, May 18, 2021 5:13 PM
To: Shepherd, Don <Don_Shepherd@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Allen, Tim <tim_allen@fws.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Subject: Re: [EXTERNAL] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period

Awesome. I will find out how we can get Appendix C to you all. Did you get Appendix H, I, and J?

From: Shepherd, Don <Don_Shepherd@nps.gov>
Sent: Tuesday, May 18, 2021 7:10 PM
To: Boling, Jean <JBoling@idem.IN.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Allen, Tim <tim_allen@fws.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Subject: Re: [EXTERNAL] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period

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Jean, i successfully downloaded and opened seven files so far--the draft SIP and Appendices A, B, D, E, F, G--thanks!

From: Boling, Jean <JBoling@idem.IN.gov>

Sent: Tuesday, May 18, 2021 5:04 PM

To: Shepherd, Don <Don_Shepherd@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Allen, Tim <tim_allen@fws.gov>; Peters, Melanie <Melanie_Peters@nps.gov>

Subject: Re: [EXTERNAL] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period

Appendix E, F, and G

From: Shepherd, Don <Don_Shepherd@nps.gov>

Sent: Tuesday, May 18, 2021 5:39 PM

To: Boling, Jean <JBoling@idem.IN.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Allen, Tim <tim_allen@fws.gov>; Peters, Melanie <Melanie_Peters@nps.gov>

Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>

Subject: Re: [EXTERNAL] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period

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Jean, i am unable to open this link--probably due to one of our security systems.

From: Boling, Jean <JBoling@idem.IN.gov>

Sent: Tuesday, May 18, 2021 3:03 PM

To: Shepherd, Don <Don_Shepherd@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; Allen, Tim <tim_allen@fws.gov>; Peters, Melanie <Melanie_Peters@nps.gov>

Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>

Subject: [EXTERNAL] Draft Indiana Regional Haze State Implementation Plan for the Second Planning Period

<p>This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.</p>

Good afternoon everyone,

Below is a link to Indiana's draft regional haze state implementation plan for the second planning period document and appendices for your review. I recommend downloading the files prior to opening them to maintain formatting, which will make them easier to read. If anyone has any questions or concerns that you would like to discuss with our project team, please let me know and I will set up a conference call meeting for us to discuss them with you. Otherwise, please send all comments to me as soon as your review is complete.

https://ingov-my.sharepoint.com/personal/mderf_idem_in_gov/Documents/Forms/All.aspx?RootFolder=%2Fpersonal%2Fmderf%5Fidem%5Fin%5Fgov%2FDocuments%2FRegional%20Haze%202021%2FFinal%20Draft%20Documents&View=%7B209A4635%2DE376%2D40A7%2D95DF%2D3578C8E11E6B%7D

Thank you.

Jean Boling
Senior Environmental Engineer
IDEM, OAQ, Programs Branch
jboling@idem.IN.gov
317-232-8228 office
317-438-0006 cell

COVID-19 Resources:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (available 8:00 am-5:00 pm daily).
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Boling, Jean

From: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Sent: Thursday, April 01, 2021 12:40 PM
To: Boling, Jean
Subject: RE: 2019 SO2 Emissions Request

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Okay. Thank you for all of your help!

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Thursday, April 1, 2021 12:39 PM
To: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Subject: Re: 2019 SO2 Emissions Request

2019 is not available yet.

From: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Sent: Thursday, April 1, 2021 12:21 PM
To: Boling, Jean <JBoling@idem.IN.gov>
Subject: RE: 2019 SO2 Emissions Request

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Thank you! Do you have the 2019 SO2 emissions for Lehigh?

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Thursday, April 1, 2021 12:04 PM
To: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Subject: Re: 2019 SO2 Emissions Request

Hi Leslie,

I apologize for the delay. Use the one in the table that was taken from the four-factor analysis. The emissions in the pdf I sent were for the Clark county Lehigh facility. The facility evaluated in the four-factor analysis was the Lawrence county Lehigh facility.

Jean

From: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Sent: Tuesday, March 30, 2021 9:55 AM
To: Boling, Jean <JBoling@idem.IN.gov>
Subject: RE: 2019 SO2 Emissions Request

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Good morning,

Sorry to bother you again. I pulled the 2017, 2018 SO₂ emissions for Lehigh from the Table below, which was in the Indiana Cement Kilns Four Factor Analysis. You sent me a new tables for both Sabic and Lehigh that included the 2019 emissions. The emissions for Sabic match up, however the tables for Lehigh have different data. The SO₂ emissions in the attached PDF show 306 (2017), 312 (2018), and 246 (2019). I'm not sure which values I should use. Thanks.

Table 4-2 Lehigh and Lone Star Kilns NO_x and SO₂ Emissions and Throughput

Inventory Year	LEHIGH CEMENT COMPANY, LLC			LONE STAR INDUSTRY, INC DBA BUZZI UNICEM		
	Actual Throughput	NO _x Emissions (ton/yr)	SO ₂ Emissions (ton/yr)	Actual Throughput	NO _x Emissions (ton/yr)	SO ₂ Emissions (ton/yr)
2008	616064	1603.62	745.97	1274148	1726.36	500.46
2009	577076	1563.28	698.58	1318451	2012.33	410.76
2010	610039	1527.39	719.56	1122421	1763.10	208.76
2011	563803	1833.23	949.57	1083141	1746.21	167.76
2012	676583	2162.70	1108.30	1090071	2118.19	158.82
2013	655246	2089.94	1075.41	934789	1409.51	138.29
2014	636948	1859.00	569.02	1024609	1317.91	174.63
2015	541656	1609.14	501.92	1230046	1397.32	148.75
2016	665975	1767.30	519.38	1219236	1580.96	138.86
2017	696917	1847.29	540.42	1159966	1686.35	168.69
2018	599142	1889.19	753.27	1091362	1713.20	104.30

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Wednesday, March 10, 2021 11:12 AM
To: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Subject: Fw: 2019 SO₂ Emissions Request

****CAUTION** PDF attachments may contain links to malicious sites. Please contact the COT Service Desk ServiceCorrespondence@ky.gov for any assistance.**

The information you requested is attached. Please let me know if you need anything else.

Have a great day!

Leslie Poff
Kentucky Division for Air Quality
300 Sower Blvd., 2nd Floor
Frankfort, KY 40601
Phone: 502-782-6735

Boling, Jean

From: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Sent: Tuesday, March 30, 2021 12:51 PM
To: Boling, Jean
Subject: Warrick Newco LLC 2019 Emissions

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hopefully this is the last bit of information I need from you. I need 2019 SO2 emissions for Warrick Newco LLC, formerly Alcoa Warrick Operations.

Thanks

Leslie Poff
Kentucky Division for Air Quality
300 Sower Blvd., 2nd Floor
Frankfort, KY 40601
Phone: 502-782-6735

Boling, Jean

From: Boling, Jean
Sent: Monday, March 08, 2021 3:51 PM
To: Shepherd, Don; Wickman, Trent R -FS; 'Tim Allen'; Peters, Melanie
Cc: DERF, MARK; Bem, Susan
Subject: Re: Indiana's Four Factor Analysis for Iron and Steel Mills, Aluminum Production and Plastics Manufacturing Plants, and Electric Services Plant Part 1
Attachments: Appendix A - Four-Factor Analysis Cost Estimate and Effectiveness.xlsx

Everyone,

Please replace this Appendix A with the previous workbook I sent for review.

Thank you.

Have a good evening.

From: Boling, Jean
Sent: Monday, March 8, 2021 9:04 AM
To: Shepherd, Don <Don_Shepherd@nps.gov>; Wickman, Trent R -FS <trent.wickman@usda.gov>; 'Tim Allen' <tim_allen@fws.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>
Subject: Indiana's Four Factor Analysis for Iron and Steel Mills, Aluminum Production and Plastics Manufacturing Plants, and Electric Services Plant Part 1

Good morning Federal Land Managers,

Indiana's iron and steel mills, aluminum production and plastics manufacturing plants, and electric services plant nitrogen oxides and sulfur dioxide four-factor analysis documents and spreadsheets for Indiana's Regional Haze (RH) State Implementation Plan (SIP) for the Second Implementation Period are attached for your review. The four-factor analysis document and cost estimate and cost effectiveness spreadsheets (Appendix A) attached are a compilation of the information submitted by sources selected for RH SIP four-factor analysis. Please feel free to forward it to anyone I missed and don't hesitate to contact me, if you have any questions. The files will be split into two separate emails.

Thank you, in advance, for cooperation and assistance.

Jean Boling
Senior Environmental Engineer
IDEM, OAQ, Programs Branch
jboling@idem.IN.gov
317-232-8228 office
317-438-0006 cell

COVID-19 Resources:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (available 8:00 am-5:00 pm daily).
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Boling, Jean

From: Boling, Jean
Sent: Monday, March 08, 2021 9:04 AM
To: Shepherd, Don; Wickman, Trent R -FS; 'Tim Allen'; Peters, Melanie
Cc: DERF, MARK; Bem, Susan
Subject: Indiana's Four Factor Analysis for Iron and Steel Mills, Aluminum Production and Plastics Manufacturing Plants, and Electric Services Plant Part 2
Attachments: Appendix B - IHE Four-Factor Analysis Submittal.pdf; Appendix C - IHW Four Factor Analysis Submittal.pdf; Appendix D - BH Four-Factor Analysis Submittal.pdf; Appendix E - US Steel Four-Factor Analysis Submittal.pdf; Appendix F - Cokenergy Four-Factor Analysis Submittal.pdf; Appendix G - SABIC Four-Factor Analysis Submittal.pdf; Appendix H - Alcoa Four Factor Analysis Submittal.pdf

Part 2

Jean Boling
Senior Environmental Engineer
IDEM, OAQ, Programs Branch
jboling@idem.IN.gov
317-232-8228 office
317-438-0006 cell

COVID-19 Resources:

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- **Anthem NurseLine:** Call 800-337-4770 or visit the [Anthem NurseLine](#) online for a FREE symptom screening. Available to anyone with an Anthem health plan (this includes State of IN employees)
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Boling, Jean

From: Boling, Jean
Sent: Monday, March 08, 2021 9:04 AM
To: Shepherd, Don; Wickman, Trent R -FS; 'Tim Allen'; Peters, Melanie
Cc: DERF, MARK; Bem, Susan
Subject: Indiana's Four Factor Analysis for Iron and Steel Mills, Aluminum Production and Plastics Manufacturing Plants, and Electric Services Plant Part 1
Attachments: Indiana RH SIP Four-Factor Analysis Part Two.docx; Appendix A - Four-Factor Analysis Cost Estimate and Effectiveness1.xlsx

Good morning Federal Land Managers,

Indiana's iron and steel mills, aluminum production and plastics manufacturing plants, and electric services plant nitrogen oxides and sulfur dioxide four-factor analysis documents and spreadsheets for Indiana's Regional Haze (RH) State Implementation Plan (SIP) for the Second Implementation Period are attached for your review. The four-factor analysis document and cost estimate and cost effectiveness spreadsheets (Appendix A) attached are a compilation of the information submitted by sources selected for RH SIP four-factor analysis. Please feel free to forward it to anyone I missed and don't hesitate to contact me, if you have any questions. The files will be split into two separate emails.

Thank you, in advance, for cooperation and assistance.

Jean Boling
Senior Environmental Engineer
IDEM, OAQ, Programs Branch
jboling@idem.IN.gov
317-232-8228 office
317-438-0006 cell

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Boling, Jean

From: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Sent: Monday, March 01, 2021 12:59 PM
To: Boling, Jean
Subject: RE: Emissions Data for Regional Haze SIP

Follow Up Flag: Flag for follow up
Flag Status: Flagged

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Good afternoon Jean,

Thank you again for the information you provided. I was able to find the 2017 and 2018 totals for Essroc and Sabic but I did not see 2019 totals. Can you provide the totals for 2019?

Thank you
Leslie

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Monday, February 22, 2021 2:57 PM
To: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Subject: Re: Emissions Data for Regional Haze SIP

Good afternoon Leslie,

Please find Indiana's draft cement kiln and iron and steel mill, aluminum production, and plastics manufacturing plants four-factor analysis documents and appendices for the second implementation period Regional Haze State Implementation Plan (RH SIP) attached in response to your request to provide the annual SO₂ emissions from Lehigh Cement Company LLC, Mitchell Plant (Essroc Cement Corp) and Sabic Innovative Plastics Mt. Vernon LLC for 2017, 2018, and 2019. The Lehigh Mitchell Plant analysis is included in the Nitrogen Oxides and Sulfur Dioxide Four-Factor Analysis for Cement Kilns (files attached to this email) and the SABIC Mt. Vernon Plant analysis is included in the Nitrogen Oxides and Sulfur Dioxide Four-Factor Analysis for Iron and Steel Mill, Aluminum Production, and Plastics Manufacturing Plants (files attached to the Part 2 email following this one). These four-factor analyses evaluate the highest emitting NO_x and SO₂ emission units at Indiana sources selected for the RH SIP four-factor analysis for the second implementation period. The visibility analysis and determination for whether new control measures will be required are not included in these documents; however, they will be addressed in Indiana's RH SIP for the second implementation period document. In addition, the Lake Michigan Air Directors Consortium Organization (LADCO) (Regional Planning Organization) is conducting source apportionment modeling for LADCO states. This includes Indiana's cement manufacturing and plastics/resins emission sectors for more source specific results, which will be included in Indiana's RH SIP document as well.

Please feel free to contact me if you have any questions.

Best Regards,

Jean Boling
Senior Environmental Engineer
IDEM, OAQ, Programs Branch
jboling@idem.IN.gov
317-232-8228 office
317-438-0006 cell

COVID-19 Resources:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (available 8:00 am-5:00 pm daily).
- **Anthem NurseLine:** Call 800-337-4770 or visit the [Anthem NurseLine](#) online for a FREE symptom screening. Available to anyone with an Anthem health plan (this includes State of IN employees)
- **Anthem Employee Assistance Program (EAP):** Available to full-time state employees and their household members regardless of health plan participation. Call 800-223-7723 or visit anthemeap.com (enter State of Indiana) for crisis counseling, help finding child/elder care, legal/financial consultation and much more.

From: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>

Sent: Friday, February 19, 2021 8:58 AM

To: Boling, Jean <JBoling@idem.IN.gov>

Subject: Emissions Data for Regional Haze SIP

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Good morning,

I am working on language to include in the Kentucky SIP to justify why certain facilities impacting the Mammoth Cave Class I area were not asked to perform a four-factor analyses. There are two particular facilities that were shown to be just above the 1% threshold that was set for our PSAT modeling. There were other Indiana facilities that were shown to significantly impact Mammoth Cave that were identified in the letter sent by VISTAS on our behalf back in June of last year. However, we feel that these two facilities do not significantly impact the area enough to warrant a four-factor analysis. I was hoping you could provide the annual SO₂ emission for these two facilities for the years 2017, 2018, and 2019. This information would help me calculate a new impact percentage based off of current data which will hopefully put the contribution below the 1% threshold. If there is any other information you think would be useful, closures, installation of control equipment at either of these facilities, I would appreciate the information. The two facilities of interest are:

Sabic Innovative Plastics Mt. Vernon LLC (18129-7364611)
Essroc Cement Corp (18019-8198511)

Thank you in advance

Boling, Jean

From: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Sent: Tuesday, February 23, 2021 8:48 AM
To: Boling, Jean
Subject: RE: Emissions Data for Regional Haze SIP

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hi Jean,

Thank you for getting back with me so quickly and for all the information. I appreciate it. I will reach out if I have any questions.

Have a great day!
Leslie

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Monday, February 22, 2021 2:57 PM
To: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Subject: Re: Emissions Data for Regional Haze SIP

Good afternoon Leslie,

Please find Indiana's draft cement kiln and iron and steel mill, aluminum production, and plastics manufacturing plants four-factor analysis documents and appendices for the second implementation period Regional Haze State Implementation Plan (RH SIP) attached in response to your request to provide the annual SO₂ emissions from Lehigh Cement Company LLC, Mitchell Plant (Essroc Cement Corp) and Sabic Innovative Plastics Mt. Vernon LLC for 2017, 2018, and 2019. The Lehigh Mitchell Plant analysis is included in the Nitrogen Oxides and Sulfur Dioxide Four-Factor Analysis for Cement Kilns (files attached to this email) and the SABIC Mt. Vernon Plant analysis is included in the Nitrogen Oxides and Sulfur Dioxide Four-Factor Analysis for Iron and Steel Mill, Aluminum Production, and Plastics Manufacturing Plants (files attached to the Part 2 email following this one). These four-factor analyses evaluate the highest emitting NO_x and SO₂ emission units at Indiana sources selected for the RH SIP four-factor analysis for the second implementation period. The visibility analysis and determination for whether new control measures will be required are not included in these documents; however, they will be addressed in Indiana's RH SIP for the second implementation period document. In addition, the Lake Michigan Air Directors Consortium Organization (LADCO) (Regional Planning Organization) is conducting source apportionment modeling for LADCO states. This includes Indiana's cement manufacturing and plastics/resins emission sectors for more source specific results, which will be included in Indiana's RH SIP document as well.

Please feel free to contact me if you have any questions.

Best Regards,

Jean Boling
Senior Environmental Engineer
IDEM, OAQ, Programs Branch
jboling@idem.IN.gov
317-232-8228 office
317-438-0006 cell

COVID-19 Resources:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (available 8:00 am-5:00 pm daily).
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From: Poff, Leslie M (EEC) <LeslieM.Poff@ky.gov>
Sent: Friday, February 19, 2021 8:58 AM
To: Boling, Jean <JBoling@idem.IN.gov>
Subject: Emissions Data for Regional Haze SIP

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Good morning,

I am working on language to include in the Kentucky SIP to justify why certain facilities impacting the Mammoth Cave Class I area were not asked to perform a four-factor analyses. There are two particular facilities that were shown to be just above the 1% threshold that was set for our PSAT modeling. There were other Indiana facilities that were shown to significantly impact Mammoth Cave that were identified in the letter sent by VISTAS on our behalf back in June of last year. However, we feel that these two facilities do not significantly impact the area enough to warrant a four-factor analysis. I was hoping you could provide the annual SO₂ emission for these two facilities for the years 2017, 2018, and 2019. This information would help me calculate a new impact percentage based off of current data which will hopefully put the contribution below the 1% threshold. If there is any other information you think would be useful, closures, installation of control equipment at either of these facilities, I would appreciate the information. The two facilities of interest are:

Sabic Innovative Plastics Mt. Vernon LLC (18129-7364611)
Essroc Cement Corp (18019-8198511)

Thank you in advance

Leslie Poff
Kentucky Division for Air Quality

300 Sower Blvd., 2nd Floor
Frankfort, KY 40601
Phone: 502-782-6735

Boling, Jean

From: Boling, Jean
Sent: Monday, January 04, 2021 10:18 AM
To: Shepherd, Don; Wickman, Trent R -FS; 'Tim Allen'; Peters, Melanie
Cc: DERF, MARK; Bem, Susan
Subject: Indiana's Cement Kiln Four-Factor Analysis
Attachments: Indiana Cement Kilns Four-Factor Analysis.docx; Appendix A - Cement Kiln Flow Diagram.pptx; Appendix B - LADCO 2015 Reference Information.xlsx; Appendix C - Cement Kiln BART.xlsx; Appendix D - Greencastle Cost Effectiveness Analysis.xlsx; Appendix E - SCR Cost Estimate.xlsx

Good morning Federal Land Managers,

Indiana's Cement Kiln Four-Factor Analysis document and appendices for the second planning period Regional Haze State Implementation Plan are attached for your review. Please feel free to forward it to anyone I missed.

Thank you, in advance, for cooperation and assistance.

Jean Boling
Senior Environmental Engineer
IDEM, OAQ, Programs Branch
jboling@idem.IN.gov
317-232-8228 office
317-438-0006 cell

COVID-19 Resources:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (available 8:00 am-5:00 pm daily).
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Boling, Jean

From: Shepherd, Don <Don_Shepherd@nps.gov>
Sent: Friday, October 30, 2020 9:16 AM
To: Boling, Jean
Cc: DERF, MARK; Bem, Susan; Peters, Melanie; Stacy, Andrea; Miller, Debra C; King, Kirsten L; trent.wickman@usda.gov
Subject: Re: [EXTERNAL] Indiana's RH SIP Cement Kiln Four-Factor Analysis Question

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Good morning, Jean,

Thanks for letting us know how you are progressing with your 4-factor analyses. We would be pleased for you to go ahead and send us Indiana's draft RH SIP cement kiln four-factor analysis document. That allows us to give you early feedback and to spread our work load.

best regards...

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Friday, October 30, 2020 7:01 AM
To: Shepherd, Don <Don_Shepherd@nps.gov>
Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>
Subject: [EXTERNAL] Indiana's RH SIP Cement Kiln Four-Factor Analysis Question

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Hello Don,

I hope this email finds you healthy and safe. Trent mentioned in the last LADCO RH SIP workgroup monthly conference call that you will be reviewing the cement kiln 4-factor analyses for the Federal Land Managers. Indiana's draft RH SIP cement kiln four-factor analysis document is currently under review by the cement kiln sources selected for four-factor analysis. This draft document does not include the visibility analysis because Indiana is awaiting source appointment modeling results from LADCO in order to complete this portion of the cement kiln four-factor analysis. The source apportionment modeling that LADCO is currently conducting for the states includes tagging for Indiana's point inventory sector groups. Indiana requested tagging for six groups related to its four-factor analysis selected sources in the source apportionment modeling. IDEM expects to receive the results from LADCO soon; however, the timing is out of our hands. Meanwhile, IDEM would like to know if you would like to go ahead and review the draft document, after the selected sources' comments are received and incorporated, without the visibility analysis or, if you would rather wait until IDEM completes the visibility analysis and includes it in the four-factor analysis document before it is sent to you for review? Please let us know which way you prefer.

Thank you, in advance, for your cooperation and assistance and have a great day.

Jean Boling
Senior Environmental Engineer
IDEM, OAQ, Programs Branch
jboling@idem.IN.gov
317-232-8228 office
317-438-0006 cell

COVID-19 Resources:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (available 8:00 am-5:00 pm daily).
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Boling, Jean

From: Dindarloo, Saeid <Saeid.Dindarloo@dnr.mo.gov>
Sent: Monday, August 24, 2020 1:45 PM
To: Boling, Jean
Cc: Wilbur, Emily; Leath, Mark; Alsharafi, Adel; DELONEY, SCOTT; DERF, MARK; Bem, Susan
Subject: Re: Request for discussing Indiana plans for reasonable progress analysis under the regional haze rule
Attachments: Screening Method-- A Quick Overview.docx

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Jean,

Below is a link to Ramboll's files, including their final report submitted to CenSARA.

<https://censara.org/ftpfiles/Ramboll/>

Also, attached is a summary of our screening method.

Please let me know if you have any questions or need anything else.

Thanks,
Saeid

From: Dindarloo, Saeid
Sent: Thursday, August 6, 2020 12:10:32 PM
To: Boling, Jean
Cc: Wilbur, Emily; Leath, Mark; Alsharafi, Adel; DELONEY, SCOTT; DERF, MARK; Bem, Susan
Subject: Re: Request for discussing Indiana plans for reasonable progress analysis under the regional haze rule

Thanks, Jean! Microsoft Teams should work for us. Please send an invitation to email addresses copied in this email.

Thanks,
Saeid

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Thursday, August 6, 2020 7:18:20 AM
To: Dindarloo, Saeid
Cc: Wilbur, Emily; Leath, Mark; Alsharafi, Adel; DELONEY, SCOTT; DERF, MARK; Bem, Susan
Subject: Re: Request for discussing Indiana plans for reasonable progress analysis under the regional haze rule

Good morning Saeid,

Monday 8/24, 11:00 to 12 noon works best for us. IDEM uses Microsoft Teams for meetings. I can send out a Teams meeting invitation to our team and anyone you would like to be included, if you like. Please let me know if this will work for you and the email addresses for the individuals you would like to attend.

Thank you.

Jean

From: Dindarloo, Saeid <Saeid.Dindarloo@dnr.mo.gov>

Sent: Wednesday, August 5, 2020 4:27 PM

To: Boling, Jean <JBoling@idem.IN.gov>

Cc: Wilbur, Emily <emily.wilbur@dnr.mo.gov>; Leath, Mark <mark.leath@dnr.mo.gov>; Alsharafi, Adel <adel.alsharafi@dnr.mo.gov>

Subject: Request for discussing Indiana plans for reasonable progress analysis under the regional haze rule

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Jean,

Missouri Department of Natural Resources (DNR) is in the process of developing its State Implementation Plan (SIP) for the Second Implementation Period under the Regional Haze Rule, for Mingo and Hercules-Glades wilderness areas.

The states in the Central States Air Resources Agencies (CenSARA) organization, which includes Missouri, contracted with Ramboll US Corporation (Ramboll) to produce a study examining the impact of point sources of NOx and SO2 on each Class I area in the central region of the United States and nearby states. For each Class I area, the study took into account light extinction-weighted wind trajectory residence times, 2016 sulfur dioxide and nitrogen oxides facility emissions, and distance from sources of nitrogen oxides and sulfur dioxide to Class I Areas. The study produced an area of influence (AOI) for each Class I area, which shows the geographic areas with a high probability of contributing to anthropogenic visibility impairment.

Based on the results of the AOI study, DNR has identified the following source in your state that is reasonably anticipated to impact visibility conditions at Mingo wilderness areas.

Duke Energy Indiana LLC - Gibson Genera

We would like to discuss, with you, your state's plans for a reasonable progress analysis for the mentioned facilities in order to determine whether it would be feasible for the facilities to reduce their SO2 and/or NOx emissions to improve visibility at Missouri class I areas.

Please let us know if any of the below times would work with your schedule to hold a conference call, and we will send you an outlook invitation with instructions to connect to the call. All times are CST.

Wednesday 8/19- 1-2 pm

Friday 8/21- 10-11 am

Friday 8/21- 2-3 pm

Monday 8/24- 11am - 12 pm

Thanks,
Saeid

• Saeid Dindarloo, Ph.D., E.I.T.
Air Pollution Control Program
Missouri Department of Natural Resources
Phone: 573-522-3348
Email: Saeid.Dindarloo@dnr.mo.gov

Boling, Jean

From: Shepherd, Don <Don_Shepherd@nps.gov>
Sent: Monday, July 13, 2020 4:25 PM
To: Holly.Kaloz@epa.ohio.gov; Donna Kenski; olivia.salmon@wisconsin.gov; Allison Smart; ashley.jackie@epa.gov; Blakley, Pamela; Bloomberg, David E.; Boling, Jean; Brewer, Patricia F; Brianna Denk; Pohlman, David C.; Hassan Bouchareb; hatten.charles@epa.gov; Irvine, Robert (DEQ); Jennifer.VanVlerah@epa.ohio.gov; Jeremy Ash; Jessica; Jonathan Loftus; King, Kirsten L; Leith.Andrew@epa.gov; Leopold, Scott; Liu.Alisa@epa.gov; Mark Janssen; matthew.johnson@dnr.iowa.gov; McCourtney, Margaret (MPCA); MCDONALDT@michigan.gov; Peters, Melanie; mocka.corey@epa.gov; rau.matthew@epa.gov; Rory Davis; stein.joseph@epa.gov; Allen, Tim; Timin, Brian; Tom Julien; Tsengel Nergui; Wickman, Trent R -FS; William.Kenny@epa.ohio.gov; Zac Adelman
Subject: Re: [EXTERNAL] RE: Regional Haze monthly conference call, Tuesday 7/14, 10 am CDT

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Folks, while the "% contribution" approach can be used to rank facilities for selection, if used to set a contribution threshold, it penalizes the most-impacted Class I areas by setting a threshold for selecting facilities based upon a percentage of the total impact at a given Class I area--the higher the total impact, the higher the selection threshold.

From: Holly.Kaloz@epa.ohio.gov <Holly.Kaloz@epa.ohio.gov>
Sent: Monday, July 13, 2020 1:58 PM
To: Donna Kenski <kenski@ladco.org>; olivia.salmon@wisconsin.gov <olivia.salmon@wisconsin.gov>; Allison Smart <asmart@lrboi-nsn.gov>; ashley.jackie@epa.gov <ashley.jackie@epa.gov>; Blakley, Pamela <blakley.pamela@epa.gov>; Bloomberg, David E. <David.Bloomberg@illinois.gov>; Boling, Jean <JBoling@idem.in.gov>; Brewer, Patricia F <Patricia_F_Brewer@nps.gov>; Brianna Denk <briannaj.denk@wisconsin.gov>; Pohlman, David C. <David_Pohlman@nps.gov>; Hassan Bouchareb <hassan.bouchareb@state.mn.us>; hatten.charles@epa.gov <hatten.charles@epa.gov>; Irvine, Robert (DEQ) <irviner@michigan.gov>; Jennifer.VanVlerah@epa.ohio.gov <Jennifer.VanVlerah@epa.ohio.gov>; Jeremy Ash <jash@fs.fed.us>; Jessica <jessica.reesemcintyre@dnr.iowa.gov>; Jonathan Loftus <jonathan.loftus@wisconsin.gov>; King, Kirsten L <kirsten_king@nps.gov>; Leith.Andrew@epa.gov <Leith.Andrew@epa.gov>; Leopold, Scott <Scott.Leopold@illinois.gov>; Liu.Alisa@epa.gov <Liu.Alisa@epa.gov>; Mark Janssen <janssen@ladco.org>; matthew.johnson@dnr.iowa.gov <matthew.johnson@dnr.iowa.gov>; McCourtney, Margaret (MPCA) <Margaret.Mccourtney@state.mn.us>; MCDONALDT@michigan.gov <MCDONALDT@michigan.gov>; Peters, Melanie <Melanie_Peters@nps.gov>; mocka.corey@epa.gov <mocka.corey@epa.gov>; rau.matthew@epa.gov <rau.matthew@epa.gov>; Rory Davis <rory.davis@illinois.gov>; Shepherd, Don <Don_Shepherd@nps.gov>; stein.joseph@epa.gov <stein.joseph@epa.gov>; Allen, Tim <tim_allen@fws.gov>; Timin, Brian <timin.brian@epa.gov>; Tom Julien <julient@michigan.gov>; Tsengel Nergui <nergui@ladco.org>; Wickman, Trent R -FS <twickman@fs.fed.us>; William.Kenny@epa.ohio.gov <William.Kenny@epa.ohio.gov>; Zac Adelman <adelman@ladco.org>
Subject: [EXTERNAL] RE: Regional Haze monthly conference call, Tuesday 7/14, 10 am CDT

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Hi Donna – if we have time, I have another agenda item for tomorrow's call. I'm wanting to use this modeling (well, the final version when it's ready but am looking at this version as a preview) to help identify the class I areas impacted by Ohio. The RH guidance indicates we can use the same areas identified in Round 1, which I'm doing, but need to consider whether the assumptions have changed. I was thinking I could use the LADCO modeling as support/validation. My question arises as to what metric would be considered to determine what "contributes" means. Looks like in Round 1 we used 2% or greater contribution to light extinction based on back trajectories and modeling. I don't see that we specified if that was 2% of U.S. anthropogenic or total. I'd like to hear how other states are approaching this.

Holly

-----Original Message-----

From: Donna Kenski <kenski@ladco.org>

Sent: Monday, July 13, 2020 3:38 PM

To: Kaloz, Holly <Holly.Kaloz@epa.ohio.gov>; olivia.salmon@wisconsin.gov; Allison Smart <asmart@lrboi-nsn.gov>; ashley.jackie@epa.gov; Blakley, Pamela <blakley.pamela@epa.gov>; Bloomberg, David E. <David.Bloomberg@illinois.gov>; Boling, Jean <JBoling@idem.in.gov>; Brewer, Patricia <Patricia_F_Brewer@nps.gov>; Brianna Denk <briannaj.denk@wisconsin.gov>; david_pohlman@nps.gov; Donna Kenski <kenski@ladco.org>; Hassan Bouchareb <hassan.bouchareb@state.mn.us>; hatten.charles@epa.gov; Irvine, Robert (DEQ) <irviner@michigan.gov>; Van Vlerah, Jennifer <Jennifer.VanVlerah@epa.ohio.gov>; Jeremy Ash <jash@fs.fed.us>; Jessica <jessica.reesemcintyre@dnr.iowa.gov>; Jonathan Loftus <jonathan.loftus@wisconsin.gov>; Kirsten King <kirsten_king@nps.gov>; Leith.Andrew@epa.gov; Leopold, Scott <Scott.Leopold@illinois.gov>; Liu.Alisa@epa.gov; Mark Janssen <janssen@ladco.org>; matthew.johnson@dnr.iowa.gov; McCourtney, Margaret (MPCA) <Margaret.Mccourtney@state.mn.us>; MCDONALDT@michigan.gov; melanie_peters@nps.gov; mocka.corey@epa.gov; rau.matthew@epa.gov; Rory Davis <roby.davis@illinois.gov>; Shepherd, Don <don_shepherd@nps.gov>; stein.joseph@epa.gov; Tim Allen <tim_allen@fws.gov>; Timin, Brian <timin.brian@epa.gov>; Tom Julien <julient@michigan.gov>; Tsengel Nergui <nergui@ladco.org>; Wickman, Trent R -FS <twickman@fs.fed.us>; Kenny, William <William.Kenny@epa.ohio.gov>; Zac Adelman <adelman@ladco.org>
Subject: Regional Haze monthly conference call, Tuesday 7/14, 10 am CDT

Hi RH people,

Our monthly regional haze call is scheduled for tomorrow at 10 am CDT, 11 am EDT. Connection information:

Join from PC, Mac, Linux, iOS or Android:

<https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmeetings.ringcentral.com%2Fj%2F1487881433&data=02%7C01%7CHolly.Kaloz%40epa.ohio.gov%7C10527799e58240d26a1f08d827644d02%7C50f8fcc494d84f0784eb36ed57c7c8a2%7C0%7C1%7C637302660556697563&sdata=6h8ZiFKjFJ%2ByL%2FJA%2FyMoGIVUKQIFdCBy%2FBgAZ6i1NA%3D&reserved=0>

Or iPhone one-tap :

US: +1(773)2319226,,1487881433#

Or Telephone:

Dial(for higher quality, dial a number based on your current location):

US: +1(773)2319226

Meeting ID: 148 788 1433

International numbers available:

<https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmeetings.ringcentral.com%2Fteleconference&p;data=02%7C01%7CHolly.Kaloz%40epa.ohio.gov%7C10527799e58240d26a1f08d827644d02%7C50f8fcc494d84f0784eb36ed57c7c8a2%7C0%7C1%7C637302660556702531&sdata=oQSa%2FCqLMnkcLtdBJh5%2Bcln7PvoTOUC4MRbVnccKsc8%3D&reserved=0>

EPA's reaction to the National Parks Conservation Association (NPCA) petition on their final guidance

Agenda:

1. Alisa Liu, EPA R5, has a few updates on EPA positions to pass along to us.

2. Hassan requested discussion on 2 items:

---EPA's reaction to the National Parks Conservation Association (NPCA) petition on their final guidance--Initial thoughts? What happens moving forward? Etc.

--- Methodology for identifying sources in other states that LADCO states would want to see a four factor analysis performed. I've been having a few conversations with other states as they contact us, and they're interested in whether or not we had identified specific facilities from other states that we were interested in and vice versa. Maybe this is part of the eventually "asks" to different states? Anyway, it might be worthwhile to start having these conversations earlier than later.

3. Tsengel has a new version of the source apportionment results spreadsheet, attached below. Please let her know if you have questions or corrections. It includes the following updates:

1. Corrected calculation for international contribution in the 'Summary Data-Most Impaired' tab.

2. Included 18 more Class I areas' analysis results by pulling model outputs at additional 17 IMPROVE sites (BALD1, BRCA1, BRIS1, GAMO1, GICL1, LOST1, LYEB1, NOAB1, PORE1, SAGA1, SAGU1, SHRO1, SIAN1, SYCA2, TRIN1, WHPE1, and ZICA1), which were missing in previous version.

3. The analysis based on following datasets:

a. ClassIareas_NEWIMPROVEALG_2000to2018_2020_may5_IMPAIRMENT.csv

b. The LADCO_2011en base run and LADCO_2028HAZE PSAT model outputs

c. Most recent natural and baseline visibility condition values from

[https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.epa.gov%2Fsites%2Fproduction%2Ffiles%2F2020-](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.epa.gov%2Fsites%2Fproduction%2Ffiles%2F2020-06%2Fdocuments%2Fmemo_data_for_regional_haze_technical_addendum.pdf&data=02%7C01%7CHolly.Kaloz%40epa.ohio.gov%7C10527799e58240d26a1f08d827644d02%7C50f8fcc494d84f0784eb36ed57c7c8a2%7C0%7C1%7C637302660556702531&sdata=JrrZDy0rt5gINyQwrF78fyYjZ9o6u7KlcYzhuSd7Py8%3D&reserved=0)

[06%2Fdocuments%2Fmemo_data_for_regional_haze_technical_addendum.pdf&data=02%7C01%7CHolly.Kaloz%40epa.ohio.gov%7C10527799e58240d26a1f08d827644d02%7C50f8fcc494d84f0784eb36ed57c7c8a2%7C0%7C1%7C637302660556702531&sdata=JrrZDy0rt5gINyQwrF78fyYjZ9o6u7KlcYzhuSd7Py8%3D&reserved=0](https://gcc01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.epa.gov%2Fsites%2Fproduction%2Ffiles%2F2020-06%2Fdocuments%2Fmemo_data_for_regional_haze_technical_addendum.pdf&data=02%7C01%7CHolly.Kaloz%40epa.ohio.gov%7C10527799e58240d26a1f08d827644d02%7C50f8fcc494d84f0784eb36ed57c7c8a2%7C0%7C1%7C637302660556702531&sdata=JrrZDy0rt5gINyQwrF78fyYjZ9o6u7KlcYzhuSd7Py8%3D&reserved=0)

Donna M. Kenski, Ph.D.

Lake Michigan Air Directors Consortium

847-720-7880 (work)

847-347-3474 (cell)

kenski@ladco.org

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Boling, Jean

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Tuesday, June 16, 2020 1:46 PM
To: Boling, Jean; Peters, Melanie
Cc: DELONEY, SCOTT; DERF, MARK; Bem, Susan; Hollinger, Mathew; WELCH, JOHN
Subject: Re: [EXTERNAL] RH SIP Four-Factor Analysis Selected Sources for Second Implementation Plan Information

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Thanks Jean!

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Tuesday, June 16, 2020 11:35 AM
To: Pohlman, David C. <David_Pohlman@nps.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Cc: DELONEY, SCOTT <SDELONEY@idem.IN.gov>; DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>; Hollinger, Mathew <MHollin@idem.IN.gov>; WELCH, JOHN <JWELCH@idem.IN.gov>
Subject: [EXTERNAL] RH SIP Four-Factor Analysis Selected Sources for Second Implementation Plan Information

Hello David and Melanie,

I have attached part of the presentation IDEM gave to sources selected for four-factor analysis. The portion of the presentation included is specifically related to IDEM's source selection process and results. IDEM met with the company representatives of sources selected for four-factor analysis in advance of sending out the information requests to them.

We look forward to discussing IDEM's selected source process and results and answer any other questions you all may have related to the Regional Haze State Implementation Plan development steps that IDEM has completed so far and where we plan to go from here.

Regards,

Jean Boling
Senior Environmental Engineer
Indiana Department of Environmental Management
Office of Air Quality
Programs Branch

Coping with COVID-19:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (open 24/7)
- **Anthem NurseLine:** Call 800-337-4770 or visit the Anthem NurseLine online for a FREE symptom screening. Available to anyone with an Anthem health plan (this includes State of IN employees)
- **Anthem Employee Assistance Program (EAP):** Available to ALL state employees and adults in household regardless of health plan participation. Call 800-223-7723 or visit anthemeap.com (enter State of Indiana) for crisis counseling, help finding child/elder care, legal/financial consultation and much more.

Boling, Jean

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Thursday, June 04, 2020 12:17 PM
To: Boling, Jean
Subject: Re: [EXTERNAL] Re: Regional Haze discussion

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Oh yeah, sorry, I forgot you are an hour later than me. I'm in Minnesota, and most of the other NPS folks are in Denver area. That would be 3pm eastern, 2pm central, 1pm mountain. I will send an appointment.

For the call, we are mostly interested in hearing where IN is in the planning process for Regional Haze - particularly your methodology/results for selecting sources for the 4-factor analysis. If there's anything else you'd like to discuss or if you have materials to send out before the call, just let me know.

Thanks!

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Thursday, June 4, 2020 10:52 AM
To: Pohlman, David C. <David_Pohlman@nps.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>
Subject: Re: [EXTERNAL] Re: Regional Haze discussion

Hi David,

I apologize for not getting back to you sooner. Is that 3:00 p.m. for Indiana, EST? If so, we are all available at 3:00 p.m. Both Mark and Susan have a meeting at 1:00 p.m. (EST) that day.

Thanks.

Jean Boling
Senior Environmental Engineer
Indiana Department of Environmental Management
Office of Air Quality
Programs Branch

Coping with COVID-19:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (open 24/7)
- **Anthem NurseLine:** Call 800-337-4770 or visit the Anthem NurseLine online for a FREE symptom screening. Available to anyone with an Anthem health plan (this includes State of IN employees)
- **Anthem Employee Assistance Program (EAP):** Available to ALL state employees and adults in household regardless of health plan participation. Call 800-223-7723 or visit anthemeap.com (enter State of Indiana) for crisis counseling, help finding child/elder care, legal/financial consultation and much more.

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Thursday, June 4, 2020 8:30 AM
To: Boling, Jean <JBoling@idem.IN.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>
Subject: Re: [EXTERNAL] Re: Regional Haze discussion

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It looks like Tuesday 6/16 at 2 Central/1 Mountain works for all our people. If that's good for you, go ahead and put it on your calendar and let me know. I'll get a conference call number and send out an appointment.

Thanks!

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Wednesday, June 3, 2020 7:35 AM
To: Boling, Jean <JBoling@idem.IN.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>
Subject: Re: [EXTERNAL] Re: Regional Haze discussion

Thanks Jean,

I'm still confirming this on our end, but does 2 pm central/1 mountain on Tuesday 6/16 work for you?

From: Boling, Jean <JBoling@idem.IN.gov>
Sent: Tuesday, June 2, 2020 12:42 PM
To: Pohlman, David C. <David_Pohlman@nps.gov>; Peters, Melanie <Melanie_Peters@nps.gov>
Cc: DERF, MARK <MDERF@idem.IN.gov>; Bem, Susan <SBEM@idem.IN.gov>
Subject: [EXTERNAL] Re: Regional Haze discussion

Hello David.

I will be joined by two of the Programs Branch Section Chiefs. We are all available for any of the dates you have proposed. Please let us know what date and time you prefer.

Thank you and have a great day.

Jean Boling
Senior Environmental Engineer
Indiana Department of Environmental Management
Office of Air Quality
Programs Branch

Coping with COVID-19:

- **Indiana State Dept. of Health (ISDH) COVID-19 Call Center:** Call 877-826-0011 (open 24/7)
- **Anthem NurseLine:** Call 800-337-4770 or visit the Anthem NurseLine online for a FREE symptom screening. Available to anyone with an Anthem health plan (this includes State of IN employees)
- **Anthem Employee Assistance Program (EAP):** Available to ALL state employees and adults in household regardless of health plan participation. Call 800-223-7723 or visit anthemeap.com (enter State of Indiana) for crisis counseling, help finding child/elder care, legal/financial consultation and much more.

From: Pohlman, David C. <David_Pohlman@nps.gov>
Sent: Friday, May 29, 2020 2:04 PM
To: Boling, Jean <JBoling@idem.IN.gov>
Cc: Peters, Melanie <Melanie_Peters@nps.gov>
Subject: Regional Haze discussion

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Hi Jean,

I hope this note finds you well! I heard your update on Regional Haze progress during the most recent LADCO call. My NPS colleagues and I would love to talk with you soon to learn about which sources Indiana has identified for Regional Haze 4-factor analysis and how those are progressing (if they are underway). Would you have time for an informal check-in phone call during the second or third week in June? As of now, we have good availability on Wednesday June 10th or Tuesday/Wednesday of the following week (6/16, 17). If those dates are not good for you (or if you aren't ready to talk) please let me know and we will adjust accordingly.

Thanks!
David

David Pohlman
Air Quality Specialist
National Park Service
Interior Region 3: Great Lakes
Interior Region 4: Mississippi Basin
Interior Region 5: Missouri Basin

111 Kellogg Blvd. E., Suite 105
Saint Paul, MN 55101
Phone: 651-491-3497
Now working from home: 651-491-3497

Boling, Jean

From: Treece, Tricia <treecep@adeq.state.ar.us>
Sent: Monday, January 13, 2020 1:15 PM
To: DELONEY, SCOTT; Montgomery, William; Clark, David; Droke, Erika; Jobe, Kelly; Hossan, Iqbal; Boling, Jean; DERF, MARK
Subject: AR and IN Regional Haze Interstate Consultation

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Arkansas DEQ participants included:

Tricia Treece

David Clark

Kelly Jobe

Iqbal Hossan

Erika Droke

Tricia Treece | SIP/Planning Supervisor

Division of Environmental Quality | Office of Air Quality

Policy and Planning Branch

5301 Northshore Drive | North Little Rock, AR 72118

t: 501.682.0055 | e: treecep@adeq.state.ar.us



ARKANSAS
ENERGY & ENVIRONMENT

Boling, Jean

From: Treece, Tricia <treecep@adeq.state.ar.us>
Sent: Thursday, January 02, 2020 12:41 PM
To: DELONEY, SCOTT
Cc: Montgomery, William; Clark, David; Droke, Erika; Jobe, Kelly; Hossan, Iqbal; Boling, Jean; DERF, MARK
Subject: RE: Regional Haze Planning Period 2 Interstate Consultation

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Great. Let's plan on January 13, 1:00 PM Eastern (12:00 Central). We will set up a Zoom meeting room and send you the meeting log in information next week.

Tricia Treece

SIP/Planning Supervisor
Policy and Planning Branch
Office of Air Quality
Division of Environmental Quality
Arkansas Department of Energy and Environment
501-682-0055

From: DELONEY, SCOTT [mailto:SDELONEY@idem.IN.gov]
Sent: Thursday, January 2, 2020 11:35 AM
To: Treece, Tricia
Cc: Montgomery, William; Clark, David; Droke, Erika; Jobe, Kelly; Hossan, Iqbal; Boling, Jean; DERF, MARK
Subject: RE: Regional Haze Planning Period 2 Interstate Consultation

Thanks for the note. We Are available to discuss on the following dates/times:

Monday 1/13@9:00AM or 1:00 PM
Wednesday 1/15 @1:00PM
Thursday 1/16 @1:00PM

We are an hour ahead of your time in Arkansas.

From: Treece, Tricia [mailto:treecep@adeq.state.ar.us]
Sent: Monday, December 30, 2019 10:59 AM
To: DELONEY, SCOTT <SDELONEY@idem.IN.gov>
Cc: Montgomery, William <Montgomery@adeq.state.ar.us>; Clark, David <CLARKD@adeq.state.ar.us>; Droke, Erika <droke@adeq.state.ar.us>; Jobe, Kelly <JOBE@adeq.state.ar.us>; Hossan, Iqbal <iqbal.hossan@adeq.state.ar.us>
Subject: Regional Haze Planning Period 2 Interstate Consultation

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Greetings,

I wanted to reach out to you as part of the our Regional Haze Planning Period two interstate consultations. As part of this process, we have identified sources in your state that potentially impact visibility at Arkansas Class I areas. The attached PowerPoint presents an overview of our methodology. We would like to set up a call with you in the as part of our interstate consultation process to discuss our methodology, and which sources we identified. Please let me know what your availability is at your convenience.

Wishing you a happy new year!

Tricia Treece

SIP/Planning Supervisor
Policy and Planning Branch
Office of Air Quality
Division of Environmental Quality
Arkansas Department of Energy and Environment
501-682-0055

Boling, Jean

From: Shepherd, Don <Don_Shepherd@nps.gov>
Sent: Tuesday, June 16, 2020 11:01 PM
To: Boling, Jean
Cc: Peters, Melanie; King, Kirsten L; Stacy, Andrea; Miller, Debra C; Pohlman, David C.
Subject: Fw: [EXTERNAL] RE: cement kiln BART
Attachments: Cement kiln BART.xlsx

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hi Jean,

I was very favorably impressed by your presentation today and would appreciate it if you would send me the spreadsheet on which your slide #6 was based so that i can update the list of facilities we sent to you about a year ago via LADCO.

As promised, i have attached the latest version of our "scorecard" that i am using to help us track this nationwide effort and to provide a resource to the states. For example, i know that AZ, CO, and MT have received 4-factor analyses from cement plants and that may be helpful to you. And, WA has experience with BART for an ALCOA primary aluminum smelter that you may want to tap into. As for EGUs, CO, MT, ND, and NM have posted 4-factor analyses that you can access on their websites. The scorecard is a work in progress--please let me know if you see something that needs corrected.

Another work in progress is the workbook i have attached that tries to pull together info on controlling emissions from cement kilns.

Because we are a national office, we receive info from all over the country and have been involved with the technical aspects of the regional Haze Rule since its promulgation. We would be happy to share our experiences with you. For example, we are seeing many 4-factor analyses that do not take advantage of EPA's Control Cost Manual, that do not use the current prime interest rate, and/or use an incorrect "remaining useful life" for control equipment.

I hope this helps--please feel free to contact me with any questions or comments.

From: Shepherd, Don <Don_Shepherd@nps.gov>
Sent: Monday, October 7, 2019 11:17 AM
To: Holly.Kaloz@epa.ohio.gov <Holly.Kaloz@epa.ohio.gov>
Cc: Donna Kenski <kenski@ladco.org>
Subject: Re: [EXTERNAL] RE: cement kiln BART

Hi Holly,

This is very much a work in progress, but i hope it helps.

Please let me know if you have any questions.

On Fri, Oct 4, 2019 at 7:27 AM Holly.Kaloz@epa.ohio.gov <Holly.Kaloz@epa.ohio.gov> wrote:
Thanks! The attachment was missing... can someone please forward?

From: Donna Kenski <kenski@ladco.org>
Sent: Wednesday, October 2, 2019 3:36 PM
To: Shepherd, Don <don_shepherd@nps.gov>; Kaloz, Holly <Holly.Kaloz@epa.ohio.gov>
Cc: Trent Wickman <twickman@fs.fed.us>; Melanie Ransmeier <melanie_peters@nps.gov>; d King <kirsten_king@nps.gov>; Andrea Stacy <andrea_stacy@nps.gov>
Subject: Re: cement kiln BART

Thanks Don, this will be very helpful.
Holly, I'm forwarding to you because Ohio was/is? the 4-factor lead for cement and lime kilns.

On Fri, Sep 27, 2019 at 10:38 AM Shepherd, Don <don_shepherd@nps.gov> wrote:

Hi Donna,

It is my understanding that LADCO has a group working on the cement source sector. We have been compiling information on BART determinations around the US and i am sharing it with you in the attachment. While i would like to have been able to pull this info together in a more coherent manner, i figured it was better to get this to you sooner rather than later.

I shall send you any updates as i can find the time to create them.

Please feel free to contact me if you have any questions.

--

Don Shepherd
National Park Service
Air Resources Division
12795 W. Alameda Pkwy.
Lakewood, CO 80228
Phone: 303-969-2075
Fax: 303-969-2822
E-Mail: don_shepherd@nps.gov

"the man who really counts in the world is the doer, not the mere critic" TR 1891

--

Donna M. Kenski, Ph.D.
Lake Michigan Air Directors Consortium
847-720-7880 (work)
847-347-3474 (cell)
kenski@ladco.org

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Don Shepherd
National Park Service
Air Resources Division
12795 W. Alameda Pkwy.
Lakewood, CO 80228
Phone: 303-969-2075
Fax: 303-969-2822
E-Mail: don_shepherd@nps.gov

"the man who really counts in the world is the doer, not the mere critic" TR 1891

