CLAIRE M. EUBANKS, PE

PRESENT POSITION:

I am the Manager of the Engineering Analysis Department, Industry Analysis Division of the Missouri Public Service Commission.

EDUCATIONAL BACKGROUND AND WORK EXPERIENCE:

I received my Bachelor of Science degree in Environmental Engineering from the University of Missouri – Rolla, now Missouri University of Science and Technology, in May 2006. I am a licensed professional engineer in the states of Missouri and Arkansas. Immediately after graduating from UMR, I began my career with Aquaterra Environmental Solutions, Inc., now SCS Aquaterra, an engineering consulting firm based in Overland Park, Kansas. During my time with Aquaterra, I worked on various engineering projects related to the design, construction oversight, and environmental compliance of solid waste landfills. I began my employment with the Commission in November 2012 and was promoted to my current position in April 2020.

Currently, I am the co-chair of the NARUC Staff subcommittee on Electric Reliability & Resilience.

Case Number	Utility	Туре	Issue	
EA-2012-0281	Ameren	Rebuttal	Certificate of Convenience and Necessity	
EC-2013-0379 EC-2013-0380	KCP&L KCP&L GMO	Rebuttal	RES Compliance	
EO-2013-0458	Empire	Memorandum	RES Compliance Plan & Report	
EO-2013-0462	Ameren	Memorandum	RES Compliance Report	
EO-2013-0503	Ameren	Memorandum	RES Compliance Plan	
EO-2013-0504	KCPL	Memorandum	RES Compliance Plan & Report	
EO-2013-0505	GMO	Memorandum	RES Compliance Plan & Report	
ET-2014-0059	KCP&L GMO	Rebuttal	RES Retail Rate Impact	
ET-2014-0071	KCP&L	Rebuttal	RES Retail Rate Impact	
ET-2014-0085	Ameren	Rebuttal	RES Retail Rate Impact	
ER-2014-0258	Ameren	Cost of Service Report, Surrebuttal	RES, In-Service	

CASE HISTORY:

Case No. EF-2024-0021 Schedule CME-r1 Page 1 of 5

Case Number	Utility	Туре	Issue	
EO-2014-0151	KCP&L GMO	Memorandum	RESRAM	
EO-2014-0357	Electric	Memorandum	Solar Rebates Payments	
EO-2014-0287	KCPL	Memorandum	RES Compliance Plan	
EO-2014-0288	GMO	Memorandum	RES Compliance Plan	
EO-2014-0289	KCPL	Memorandum	RES Compliance Report	
EO-2014-0290	GMO	Memorandum	RES Compliance Plan	
ER-2014-0370	KCP&L	Cost of Service Report	RES	
EX-2014-0352	N/A	Live Comments	RES rulemaking	
EC-2015-0155	GMO	Memorandum	Solar Rebate Complaint	
EO-2015-0260	Empire	Memorandum	RES Compliance Plan & Report	
EO-2015-0263	KCPL	Memorandum	RES Compliance Report	
EO-2015-0264	GMO	Memorandum	RES Compliance Report	
EO-2015-0265	KCPL	Memorandum	RES Compliance Plan	
EO-2015-0266	GMO	Memorandum	RES Compliance Plan	
EO-2015-0267	Ameren	Memorandum	RES Compliance Plan & Report	
EO-2015-0252	GMO	Staff Report	Integrated Resource Plan – Renewable Energy Standard	
EO-2015-0254	KCPL	Staff Report	Integrated Resource Plan – Renewable Energy Standard	
EA-2015-0256	KCP&L GMO	Live Testimony	Greenwood Solar CCN	
EO-2015-0279	Empire	Memorandum	RES Compliance Plan & Report	
ET-2016-0185	KCP&L	Memorandum	Solar Rebate Tariff Suspension	
EO-2016-0280	KCPL	Memorandum	RES Compliance Report	
EO-2016-0281	GMO	Memorandum	RES Compliance Report	
EO-2016-0282	KCPL	Memorandum	RES Compliance Plan	
EO-2016-0283	GMO	Memorandum	RES Compliance Plan	
EO-2016-0284	Ameren	Memorandum	RES Compliance Plan & Report	
ER-2016-0023	Empire	Report	RES	
ER-2016-0156	KCP&L GMO	Rebuttal	RESRAM Prudence Review	

Case No. EF-2024-0021 Schedule CME-r1 Page 2 of 5

Case Number	Utility	Туре	Issue		
EA-2016-0208	Ameren	Rebuttal	Certificate of Convenience and Necessity		
ER-2016-0285	KCPL	Cost of Service Report	In-Service, Greenwood Solar		
ER-2016-0179	Ameren	Rebuttal	In-Service, Labadie Landfill		
EW-2017-0245	Electric	Report	Working Case on Emerging Issues in Utility Regulation		
EO-2017-0268	Ameren	Memorandum	RES Compliance Plan & Report		
EO-2017-0269	KCPL	Memorandum	RES Compliance Report		
EO-2017-0271	KCPL	Memorandum	RES Compliance Plan		
GR-2017-0215 & GR-2017-0216	Spire	Rebuttal & Surrebuttal	CHP for Critical Infrastructure		
GR-2018-0013	Liberty Utilities (Midstates Natural Gas)	Rebuttal	CHP Outreach Initiative for Critical Infrastructure Resiliency		
EO-2018-0287	Ameren	Memorandum	RES Compliance Plan & Report		
EO-2018-0288	KCPL	Memorandum	RES Compliance Report		
EO-2018-0290	KCPL	Memorandum	RES Compliance Plan		
EA-2016-0207	Ameren	Memorandum	Certificate of Convenience and Necessity		
ER-2018-0146	GMO	Cost of Service Report	RESRAM Prudence Review		
ER-2018-0145 ER-2018-0146	KCPL GMO	Class Cost of Service Report, Rebuttal	Solar Subscription Pilot Rider, Standby Service Rider		
EA-2018-0202	Ameren	Staff Report	Certificate of Convenience and Necessity		
EE-2019-0076	Ameren	Memorandum	Variance Request – Reliability Reporting		
EA-2019-0021	Ameren	Staff Report	Certificate of Convenience and Necessity		
EA-2019-0010	Empire	Staff Report	Certificate of Convenience and Necessity		
EX-2019-0050	N/A	Live Comments	Renewable Energy Standard		

Case No. EF-2024-0021 Schedule CME-r1 Page 3 of 5

Case Number	Utility	Туре	Issue
EO-2019-0315	KCPL	Memorandum in Response to Commission Questions	Renewable Energy Standard
EO-2019-0316	GMO	Memorandum	Renewable Energy Standard
EO-2019-0317	KCPL	Memorandum in Response to Commission Questions	Renewable Energy Standard
EO-2019-0318	GMO	Memorandum	Renewable Energy Standard
ER-2019-0335	Ameren	Cost of Service Report	Renewable Energy Standard, In- Service Criteria
EA-2019-0371	Ameren	Staff Report	Certificate of Convenience and Necessity
EO-2020-0329	Evergy Missouri Metro	Memorandum	Renewable Energy Standard
EO-2020-0330	Evergy Missouri West	Memorandum	Renewable Energy Standard
EE-2021-0237	Evergy Missouri Metro	Memorandum	Cogeneration Tariff
EE-2021-0238	Evergy Missouri West	Memorandum	Cogeneration Tariff
EE-2021-0180	Ameren Missouri	Memorandum	Electric Meter Variance
ET-2021-0151 and 0269	Evergy	Memorandum, Rebuttal Report	Transportation Electrification
AO-2021-0264	Various	Staff Report	February 2021 Cold Weather Event
EW-2021-0104	n/a	Staff Report	RTO Membership
EW-2021-0077	n/a	Staff Report	FERC Order 2222
EO-2021-0339	Evergy Missouri West	Memorandum	Territorial Agreement
GR-2021-0108	Spire	Rebuttal	Automated Meter Reading Opt-out Tariff
EA-2021-0087	ATXI	Rebuttal Report	Certificate of Convenience and Necessity
ER-2021-0240	Ameren Missouri	Cost of Service Report Rebuttal	In-Service Bat Mitigation

Case No. EF-2024-0021 Schedule CME-r1 Page 4 of 5

Case Number	Utility	Туре	Issue	
ER-2021-0312	Empire	Cost of Service Report	Construction Audit – Engineering Review, In-service	
EO-2022-0061	Evergy Missouri West	Surrebuttal	Special Rate/ Renewable Energy Standard	
EA-2022-0099	ATXI	Rebuttal	Certificate of Convenience and Necessity	
EA-2022-0234	NextEra Energy Transmission	Rebuttal	Certificate of Convenience and Necessity	
ER-2022-0129	Evergy Missouri West	Direct Rebuttal	Advanced Metering Infrastructure, Reliability, Transmission & Distribution Investment, PISA reporting, Misc. Tariff issues	
ER-2022-0130	Evergy Missouri Metro	Direct Rebuttal Surrebuttal/True-Up	Advanced Metering Infrastructure, Reliability, Transmission & Distribution Investment, PISA reporting, Misc. Tariff issues	
EE-2022-0329	Ameren Missouri	Memorandum	Variance Request	
GR-2022-0179	Spire Missouri	Direct Rebuttal	Metering Infrastructure	
ER-2022-0337	Ameren Missouri	Direct Rebuttal Surrebuttal/True-Up	Rush Island, Smart Energy Plan, High Prairie	
EA-2023-0017	Grain Belt	Rebuttal	Certificate of Convenience and Necessity	
ET-2023-0250	Empire	Memorandum	Cogeneration/ Net Metering Tariff	
. GE-2023-0196	Empire District Gas Company	Memorandum	Variance Request	
EO-2023-0423 EO-2023-0424	Evergy	Memorandum	Solar Subscription Program	
EC-2024-0108	Ameren Missouri	Staff Report	Complaint	

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of an Investigation into an Incident in December 2005 at the Taum Sauk Pumped Storage Project Owned and Operated by the Union Electric Company d/b/a AmerenUE.

Case No. ES-2007-0474

<u>UNION ELECTRIC COMPANY D/B/A AMERENUE'S</u> PLAN FOR IMPLEMENTING STAFF'S RECOMMENDATIONS

COMES NOW Union Electric Company d/b/a AmerenUE (AmerenUE) and states as follows:

1. On June 19, 2007 the Missouri Public Service Commission (Commission) opened this case to investigate the Taum Sauk incident that occurred in December, 2005. The Commission held a hearing beginning on July 24, 2007 and the Missouri Public Service Commission Staff (Staff) filed its Incident Report on October 24, 2007. On December 6, 2007 the Commission issued its Order Receiving Staff Report. AmerenUE voluntarily agreed to adopt a number of Staff recommendations contained in the Staff's Report and agreed to file an implementation plan for the recommendations it agreed to adopt. AmerenUE's implementation plan is set forth below.

2. AmerenUE will exclude from its revenue requirement in future rate cases the cost of investigating the Taum Sauk failure, the costs incurred for the clean-up at Taum Sauk, the costs of compensating parties adversely affected by the failure, the cost of restoring Johnson's Shut-Ins State Park and the cost of the fine paid to the Federal Energy Regulatory Commission for the failure. In addition, until 2009 when the Taum Sauk facility rebuild is scheduled to be complete, AmerenUE will model its system as though the Taum Sauk plant continued to operate

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in order to give customers the full benefit of the plant and the economic power it could generate during peak periods.

3. AmerenUE is providing the following accounting treatment to monies expended to rebuild the Taum Sauk plant: AmerenUE books (debits) all incurred Taum Sauk upper reservoir reconstruction costs for a calendar month to the specific capital project 19481 (neither AFUDC nor corporate indirect overheads are applied to this work order) and transfers (credits) the entire amount booked to the reconstruction work order at the end of the month to Accounts Receivable account 20-143-002. Insurance recoveries are applied (credited) to the Accounts Receivable account as the insurance settlement proceeds are received.

4. AmerenUE will submit its accounting treatment to the Staff as follows:

The Company will send to the Staff its accounting treatment for the reconstruction of the Taum Sauk upper reservoir on a semi-annual basis on March 15 and September 15 of 2008 and 2009. Staff will be provided a summary of the expenses incurred, the transfers generated to move the reconstruction cost to Accounts Receivable and the insurance proceeds received and credited to the Accounts Receivable account (see the attached Appendix A). The charge-level detail will be available if required.

AmerenUE will also be installing equipment and constructing facilities not related to the reconstruction of the upper reservoir. These projects were deferred from previous years pending the rebuild approval or added as plant improvements or replacements. AmerenUE will not be submitting data related to these projects. These projects will be subject to normal rate case proceedings.

5. AmerenUE will provide a single, on-site supervising engineer at each generation plant who is assigned to oversee all engineering projects at that facility. The supervising

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engineer shall report to the plant manager, but will have the obligation to report any unresolved safety issues to the AmerenUE safety officer responsible for the facility. The AmerenUE Project Management Manual has been revised to reflect this change, as set forth in Appendix B [see the bottom of page 2 titled "On-site Supervising Engineer or Manager (Superintendent or equivalent)"]. The revision will be implemented within ninety (90) days of this filing.

6. AmerenUE will implement an Employee Concerns Program, whereby employees may report safety concerns and other concerns to the Vice President of Power Operations. The Employee Concerns Program is set forth in Appendix C. AmerenUE will provide semi-annual reports to the Staff of any employee concerns reported. This program will be implemented within ninety (90) days of this filing.

7. AmerenUE has designated three separate safety officers for its system: Mark Birk for non-nuclear generation, Adam Heflin for nuclear generation and Ron Zdellar for transmission and distribution facilities.

WHEREFORE, AmerenUE respectfully submits this plan for implementing Staff's recommendations that it agreed to adopt.

Respectfully submitted,

UNION ELECTRIC COMPANY, d/b/a AmerenUE

Thomas M. Byrne By:

Thomas M. Byrne, #33340 Managing Associate General Counsel 1901 Chouteau Avenue, MC-1310 P.O. Box 66149, MC-1310 St. Louis, Missouri 63101-6149 (314) 554-2514 (Telephone) (314) 554-4014 (Facsimile) tbyrne@ameren.com

Dated: March 5, 2008

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a true and correct copy of the foregoing document was served via electronic filing with the Missouri Public Service Commission and via electronic mail (e-mail) on this 5th day of March, 2008 to:

Missouri Public Service Commission General Counsel Office P.O. Box 360 200 Madison Street, Suite 800 Jefferson City MO 65102 GenCounsel@psc.mo.gov Lewis Mills Office Of Public Counsel P.O. Box 2230 200 Madison Street, Suite 650 Jefferson City, MO 65102 opcservice@ded.mo.gov

Kevin A. Thompson General Counsel Missouri Public Service Commission P.O. Box 360 200 Madison Street, Suite 800 Jefferson City, MO 65102 kevin.thompson@psc.mo.gov

Thomas M. Byrne

Thomas M. Byrne

Case No. EF-2024-0021

SCHEDULE CME-r2

Pages 5 through 25

HAVE BEEN DEEMED

CONFIDENTIAL

IN THEIR ENTIRETY

Case No. EF-2024-0021 Confidential Schedule CME-r2 Page 5 of 5 Case No. EF-2024-0021

SCHEDULE CME-r3

HAS BEEN DEEMED

CONFIDENTIAL

IN ITS ENTIRETY

AmerenUE Environmental Compliance Strategy Analysis – Kick-off Meeting

May 24, 2007

Attendees:

Tony Artman	Price Marr	Rick Voytas
Mark Birk	Bob Neff	Dennis Weisenborn
Darrell Hughes Ned Kammerer	Bob Powers Rick Smith	Steve Whitworth

Mark Birk called this meeting to kick off the AmerenUE environmental compliance strategy analysis. The agenda is attached. Mark asked the Corporate Planning Department to coordinate the analysis with the assistance of the various subject matter experts in attendance. He described the importance of performing this analysis in the near term and suggested the analysis likely be revisited on an annual basis. He also emphasized the importance of documenting all work.

Generation Technical Services then reviewed the current environmental compliance plan for AmerenUE air emissions. There is some flexibility in how AmerenUE handles NO_x and SO_2 controls but very little for mercury. It is important to try to avoid contaminating flyash with mercury to avoid adding to landfill requirements. The current scrubber schedule is:

- Labadie two by 1/1/15 and two more by 1/1/17
- Meramec no plans to scrub
- Rush Island two by 1/1/13
- Sioux two by Fall 2009 (GTS is investigating whether it is possible and more economic to advance the schedule to Spring 2009)

Other emission controls and related plans include:

- SCRs on Meramec 3 & 4 by 1/1/15
- Mercury CEMS and controls on all units by 1/1/09 and 1/1/10, respectively.
- New landfills at Labadie, Meramec, Rush Island and Sioux
- 316B jobs for all intakes

Environmental Services then reviewed the possible environmental regulations beyond CAIR and CAMR. These include:

- Potential for 114 action in Region VII
- PM_{2.5}
- Possible reduction in ozone standard
- Carbon emission control requirements
- Challenge to CAMR cap & trade vs. MACT

Case No. EF-2024-0021 Schedule CME-r4, Page 1 of 7 STAFF 11_000162 The discussion next covered parameters for the study. These include capital costs, operating costs, removal efficiencies and timing for scrubbers, fueling assumptions, allowance price forecasts, mercury co-benefits of scrubbing and incremental CO_2 emissions from scrubbing. The source of the allowance price forecasts will be CRA International, which is supporting ongoing integrated resource planning work for AmerenUE. It was suggested that a fuel budget run be made using these allowance prices.

The discussion of study parameters overlapped into a discussion of sensitivity analyses. Sensitivities identified by AmerenUE for this study include capital and operating costs, removal efficiency, allowance prices, alternative fueling assumptions, retirement of Meramec Plant, impact of a possible new coal unit and improved NO_x performance at existing plants. It was suggested that a scenario which considered the impact of a New Source Review violation finding be analyzed. Corporate Planning agreed to work with Legal to review this issue. Legal will provide their views on this possibility to AmerenUE for their consideration. Based on that information AmerenUE will provide the team direction on whether additional analysis is to be performed. There was a lengthy discussion comparing wet scrubbing to dry scrubbing. A key advantage of wet scrubbing is fuel flexibility, while a disadvantage is higher capital cost. We will quantitatively analyze both technologies. There was discussion of potential problems at Labadie related to heat rejection to the Missouri River and the possibility that cooling towers would have to be installed.

Project payback was discussed, with Corporate Finance suggesting that AmerenUE challenge itself to try to meet a 5-6 year payback rather than a 10-20 year payback.

The discussion moved on to alternative compliance strategies and how the existing AmerenUE SO_2 allowance bank could be utilized. It was suggested that AmerenUE might sell SO_2 allowances to fund scrubber builds. Corporate Finance will follow up on this question to determine if the recent rate order would allow this and whether that is a viable strategy. It was agreed that all compliance plans will include two scrubbers at Sioux. Alternative plans will include various levels of SO_2 allowance purchases and scrubber installations. It was noted that the key metric for AmerenUE in choosing the preferred environmental compliance plan was the minimization of revenue requirements while being in compliance with all environmental regulations.

At the end of the meeting, the study schedule was discussed to come up with workable time frames for data development and analysis. Based on input from the various groups in attendance, Mark Birk suggested the following schedule:

- Input data provided to Corporate Planning June 22, 2007
- Initial results from analysis for discussion with team July 6, 2007
- Revised analysis and final report for AmerenUE July 20, 2007

Case No. EF-2024-0021 Schedule CME-r4, Page 2 of 7 STAFF 11_000163 The meeting concluded with a review of data development responsibilities:

- Ameren Fuels & Services will provide alternative fueling assumptions, delivered coal costs, and sulfur content to Generation Technical Services and Corporate Planning by the middle of June (when it will receive Illinois coal bids from a recently issued RFP).
- Generation Technical Services will provide construction cost, operating cost, removal efficiency, installation timing and mercury co-benefit inputs.
- Corporate Planning will obtain emission allowance price forecasts from CRA.
- Corporate Finance will review project timing for capital constraints issues and will look into the possibility of selling SO₂ allowances to fund scrubber builds.
- Supply Services will review project timing for reasonableness with respect to materials and labor sourcing issues.

3 of 3

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Message
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From:	Artman, Anthony J [/O=AMEREN/OU=GOB/CN=RECIPIENTS/CN=B5FA8417]
Sent:	6/11/2009 8:46:13 AM
То:	Knowles, Susan B [SKnowles@ameren.com]
Subject:	NSR mentioned during our Environmental Briefing to MO Stakeholders in Jeff City yesterday

Susan,

Yesterday afternoon representatives from UE and Ameren Services met with MO stakeholders in the IRP process and provided them with an environmental compliance strategy briefing. Mike Menne presented all the environmental regulatory issues that were out there. Mark Birk presented UE current environmental compliance strategy based on the current CAIR regulations and likely MACT mercury requirements. For mercury he told them UE was planning to install ACI at Labadie, RI and Meramec by 2014 and use fuel additive at Sioux beginning in 2014. They are assuming that will result in 90% removal and would meet the MACT requirements. He told them that they planned to install not NOx control technology and only complete the scrubbers at Sioux for SO2 control technology. They would use their allowances to extend out as far as possible and then buy allowances. He also showed some the economics of plans which included scrubbers at Labadie and Rush Island. The Missouri Office of Public Counsel (OPC) asked Mark why would they ever consider advancing the timing on scrubbers or installing scrubbers as early as 2013. Then questions came up about the 114 inquiry as an example of what might cause us to install scrubbers as early as 2013. Then questions came up about the 114 inquiry. Mark explained what was going on and Mike added a few comments. After the meeting was over Mark then approached OPC with the idea of maybe supporting us in the process if it came to forcing us to install scrubbers and possibly loose our allowances. They seemed to be receptive to the concept.

If you want to talk about this sometime let me know.

Tony Artman



Fuel Risks

Business Risk Management Discussion

Audit and Risk Committee Meeting August 7, 2008

> Mike Mueller Bob Neff Scott Glaeser

Case No. EF-2024-0021 Schedule CME-r4, Page 5 of 7

STAFF 11 000664

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AM-02766003

Coal situational assessment – Framing the issues

Ameren's fuel strategy is primarily based on the use of Powder River Basin coal

- Converted plants as fast as possible from Illinois basin coal to lower cost PRB coal
- --- Created competitive transportation options between the two western rail carriers to obtain rate reductions from western carriers, who were aggressively competing for new PRB business
- Established a diverse pool of PRB coal supply contracts to draw from
- The PRB based fuel strategy has worked well for Ameren
 - Lower fuel cost than many neighboring utilities, benefiting power sales and capacity factors
 - PRB conversion provided key savings in CIPS and CILCO acquisitions
- Changing coal markets have diminished, but not altered, the fundamental value of the PRB strategy for uncontrolled plants
 - Two western carriers decided to stop competing for PRB business among existing customers, effectively carving up the market
 - Consolidation in the PRB coal producers has reduced major PRB mining companies from 4 to 3

Case No. EF-2024-0021 Schedule CME-r4, Page 6 of 7



Ameren Focusing on Excellence

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Coal situational assessment – Framing the issues

- Ameren is also entering into a new phase of fuel decisions, driven by emissions regulations, new source review requirements, and climate change
 - Eventual implementation of CAIR rules and Illinois consent decree will require SO2 controls (scrubbers) and NOx control (SCR, urea, etc.)
 - Recent court decision overturning CAIR rules could impact these requirements
 - NSR discussions continue and would be affected by recent court decisions
 - Climate change legislation could significantly impact our existing coal and contractual agreements in the future
- To address these uncertain requirements, the need to build in fuel flexibility will need to be carefully weighed against the cost of that flexibility
- Ameren's future fuel strategy must address the changing commodity, transportation and environmental regulatory environments
- This strategy will likely need to be more segment/plant specific, employ a broader set of risk mitigation tools, and will encompass appropriate flexibility to respond to uncertain environmental regulations

Case No. EF-2024-0021 Schedule CME-r4, Page 7 of 7



Ameren Focusing on Excellence Confidential/TradeSecret - Subject to Protective Order 3

Ameren Missouri's Response to MPSC Data Request - MPSC ER-2022-0337 In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Adjust Its Revenues for Electric Service

No.: MPSC 00198.5

On November 30, 2021 MISO submitted proposed revisions to its Open Access Transmission, Energy and Operating Reserve Markets Tariff to establish Resource Adequacy Requirements on a seasonal basis for each of the Summer, Fall, Winter and Spring Seasons, and to implement an availability-based Seasonal Accredited Capacity ("SAC") methodology for resources participating in MISO's annual Planning Resource Auction ("PRA"). (a) Please identify the Seasonal Resource Adequacy Hours for PRA Zone 5 each season based on either information received from MISO, or Ameren-internal calculations, including workpapers. (b) Please identify the Annual Resource Adequacy Hours for each season for PRA Zone 5 based on either information received from MISO, or Ameren-internal calculations, including workpapers. (c) Please provide the Annual Average Offered Capacity for each Ameren Missouri resource subject to MISO Schedule 53. (d) Please generally describe the capacity position of Zone 5 by season and annually. (e) Please provide a copy of all internal presentations, briefings, or emails prepared to describe the effect of the promulgation of the referenced addition to the MISO OATT on Ameren Missouri. (f) Please provide a copy of all presentations, briefings, or other documentation provided by MISO or the OMS to Ameren Missouri concerning the effect of the promulgation of the referenced addition to the MISO OATT on Ameren Missouri. Data requested by Sarah Lange (sarah.lange@psc.mo.gov <mailto:sarah.lange@psc.mo.gov>)

RESPONSE

Prepared By: Andrew Meyer Title: Sr. Director Energy Management & Trading Date: 11.03.2022

A & B. MISO provided an initial release of both the seasonal and annual RA hours in the document linked below and attached file 'MPSC 00198.5 Initial RA Hours 20220929626468 (version 1)'. The data provided by MISO does not specify hours by Local Resource Zone. MISO specifically noted that "(t)his dataset is not final and subject to revision. The dataset should be considered indicative for discussion purposes."

https://cdn.misoenergy.org/Initial%20RA%20Hours%2020220929626469.xlsx

C. The Company is assuming the request is forward-looking, with the anticipated accreditation values for Ameren Missouri resources under the new SAC methodology. Please

refer to attachment 'CONF MPSC 00198.5 Working_AmerenMO_Capacity_Report', in which the Company has attempted to model future seasonal positions. These SAC values are subject to change, as MISO will not publish final 2023/24 SAC values until later this year. The accreditation values in this model are based on information provided by MISO, and not necessarily independently modeled by the Company.

D. Ameren Missouri does not make up the entirety of Zone 5. Speaking specifically of Ameren Missouri's anticipated seasonal positions, which include resources and load obligations distributed in both Zones 4 and 5, the positions vary significantly by season. The annual position, calculated under the historic MISO capacity construct, would be very similar to the Summer seasonal position. As indicated in the capacity report file referenced in part C, the Company is initially projecting a long capacity position in the Summer 2023 season of 1,368MW. Note that the Summer Planning Reserve Margin (PRM) is 7.4%. The Fall 2023 long position of 895 MW is impacted by its seasonal resource accreditation and higher PRM of 14.9%. The Winter and Spring PRMs are notably higher at 25.5% and 24.5%, respectively. These higher PRMs, along with accreditation impacts, result in a forecasted short Winter 2023-24 capacity position of -471MW. The Company's Spring 2024 position is forecast to be long 1,055MW.

Again, this is an initial working calculation which will change when final MISO data is received.

- E. Please see attached presentations:
 - MPSC 00198.5 MPSC EO-2022-0215 OTR Final, which generally speaks to seasonal capacity positions. It is important to note that this presentation was developed before the indicative 2023-24 seasonal Planning Resource Margins (PRMs) were published by MISO and those PRMs for Fall, Winter, & Spring were significantly higher than the Company's original estimates included in the presentation..
 - MPSC 00198.5 Seasonal Capacity Construct
 - MPSC 00198.5 Seasonal Capacity Filing Approval

Also included are the Company's filed comments to FERC regarding MISO's Seasonal filing. 'MPSC 00198.5 20220114-5185 Ameren Comments to ER22-495 Seasonal Accreditation'.

F. Please see attached files provided by MISO to the Company. First is the publiclyavailable design document, which is available on the MISO website <u>https://cdn.misoenergy.org/20211201%20RASC%20Updated%20Seasonal%20RA%20Conceptu</u> <u>al%20Design%20Document619550.pdf</u>.

The second file, 'MPSC 00198.5 amerenmissouriupdated', is the tentative Ameren Missouri SAC accreditation values, as provided by MISO. These values were used in the position modeling file. The Company has not yet attempted to validate these accreditation values using availability during RA hours, nor attempted to model the application of outage exemptions.

Ameren Missouri EO-2022-0215

August 17, 2022



Case No. EF-2024-0021 Schedule CME-r5, Page 3 of 37

2022 OMS-MISO Survey

"...the issue of securing capacity, both in terms of planning obligations ahead of time, as well as meeting real time load obligations..."



- Ameren Missouri demonstrated sufficient capacity in the OMS Survey and in recent PRA.
- Ameren Missouri load is in Zone 5; Missouri. However, owned resources are across Zones 4 and 5; Illinois and Missouri.
- The five CTG sites in IL total 1,739 MW of installed capacity. This translated to 1,371.1 MW of UCAP participating in the recent MISO PRA.
- These IL CTGs are pseudo-tied to Missouri. If reflected as such, Zone 5 would be sufficient and Zone 4 increasingly short.

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Case No. EF-2024-0021 Schedule CME-r5, Page 4 of **F**

Capacity Position Modeling

"...the issue of securing capacity, both in terms of planning obligations ahead of time, as well as meeting real time load obligations..."

Key Considerations of MISO Planning Resource Auction (PRA) position:

- MISO Capacity Accreditation Differs from IRP Modeling.
 - The IRP utilizes Installed Capacity, with some availability reductions, to achieve a consistent long-term
 perspective. The MISO process is less stable, as available capacity is annually adjusted based on 36month prior operating performance.
- Ameren Missouri's position in the MISO capacity auctions, after Rush Island units retire, will be very near flat. If accreditation for existing resources falter, or new renewable resources are not commercially operable, a short position may develop.
- Strategy for procuring any necessary capacity would be determined after final position modeling and consultation with the Independent Market Monitor (IMM).



Ameren Missouri Position - MISO Planning Resource Auction

"...the issue of securing capacity, both in terms of planning obligations ahead of time, as well as meeting real time load obligations..."



- Assumes Rush Island will be online as an SSR through Spring 2024.
- Utilization of RIEC units for MISO PRA purposes is subject to IMM discretion.
- These UCAP values assume recovery of Callaway accreditation and include proposed renewables.



Real Time Load Obligations & Stressor Events

"...the issue of securing capacity, both in terms of planning obligations ahead of time, as well as meeting real time load obligations..."

Ameren Missouri Proactive Actions Include:

- · Risk-based major outage schedule for baseload units
- · Pre-summer and Pre-winter readiness meetings with Energy Centers
- Year-round active monitoring of river conditions to anticipate potential issues such as high & low levels, high temperatures, ice jams, etc.
- Daily tracking and analysis of weather, electric loads, and MISO system forward forecasts to proactively identify system conditions.
- · Internal conservative ops indications stoplight system described in Winter storm Uri docket
- · Coordination & compliance with MISO Emergency notifications and procedures



Winter Peak Demand

"...strategies it will undertake to meet its load in the event of a stressor event in the foreseeable future..."



- During Winter Storm Uri, hourly retail load reached 6,606 MW. If a similar event occurs in next two winters, resources will be stressed, but sufficient.
- CTG winter availability reduced due to anticipated pipeline restrictions
- Ameren exploring options to address winter supply, post-RIEC closure.
 Case No. EF-2024-002 Schedule CME-r5, Page 8 of Finite CME

MISSOURI

Summer Peak Demand – with 'Emergency' Resources

"...strategies it will undertake to meet its load in the event of a stressor event in the foreseeable future..."



- On July 5th temps reached 101 degrees, setting a post-Noranda retail load peak.
- The IL CTG fleet has emissions restrictions from the IL Clean Energy Jobs Act. Runtime hours are reserved for Emergency conditions.
- Demand Response programs run May – September.

[•] No pipeline restrictions. Case No. EF-2024 0021 Schedule CME-r5, Page 9 of AMERICAN MISSOURI

2022 Summer Readiness

"... in the event of a stressor event in the foreseeable future on both its system and MISO's system."



- When MISO system loads reach the forecasted peaks, Emergency resources and non-firm energy imports are projected to be needed to maintain system reliability.
- These Emergency resources include Demand Response, expanded operating limits for generation, and availability-constrained resources, such as Ameren Missouri's IL CTG's.
- MISO's Maximum Generation Emergency Operating Procedure dictates the actions necessary, with firm load shed being the final step.





MISO Seasonal Capacity Filing Highlights – March 2022

Case No. EF-2024-0021 Schedule CME-r5, Page 11 of 37

Summary

Transitioning to a MISO Seasonal Capacity Market

- Currently, MISO LSE's must procure capacity to meet their forecasted annual summer peak (+ a ~8% reserve margin) in order to demonstrate "Resource Adequacy" for the full Planning Year.
- Under a Seasonal Construct, LSE's must procure capacity to meet each of their four SEASONAL peaks

Three primary next steps for RA reform:



Sub-annual construct: Change from current annual summer-based construct to four distinct seasons Outcomes: (1) Identify reliability needs unique to each season (2) Align resource availability with seasonal needs (3) Facilitate seasonal outages or partial year operations



Improved accreditation: Align resource accreditation with availability in the highest risk periods

Outcomes: (1) Increase confidence in capacity that MISO can count upon (2) Provide improved signals for availability and coordination (3) Improve outage coordination processes



Minimum capacity requirement: Require at least 50% of capacity to be secured for each Load Serving Entity (LSE), prior to the Planning Resources Auction (PRA)

Outcomes: (1) Support MISO reliability with the changing risk profile and lower excess reserve margins (2) Reinforce a fundamental assumption that all LSE are appropriately planning

Case No. EF-2024-0021

Schedule CME-r5, Page 12 of 37

Resource Accreditation Changes

Unforced Capacity (UCAP) Out, Seasonal Adjusted Capacity (SAC) In

- Currently, a Resource is accredited by taking GVTC test generation volume x (1-EFORd) = UCAP ex. 100mw GVTC x (1 - .18 EFORd) = 82mw UCAP
- Under Seasonal, a Resource is accredited by taking its historical hourly availability during tight and non-tight hours, and establishing an 80/20 weighted SAC accreditation ex. 64mw in tight hrs, 100 in non-tight hrs (64mw x .8) + (100mw x .2) = 71.2mw SAC
- This is done for each resource for each season
- Tight hours are defined on the next slide

Case No. EF-2024-0021 Schedule CME-r5, Page 13 of 37

Tier 2 "Tight" Hours

Availability During Tier 2 Hours Determines 80% of Resource Accreditation

Seasonal Tier 2 tight condition hours are defined across the year based on retrospective tight supply time periods and MaxGen event hours

RA hours are defined as tight margin hours and emergency hours over four historical planning years

- Margin (%) = online margin + offline margin (24-hour lead time) / Real-Time (RT) load
- Tight margin hours (RA hours) are selected through the following process for Central+North and South separately:

(1) MaxGen hours automatically become RA hours

(2) For each season in each Planning Year, supplement number of RA hours to 3% of hours in each season (65 hours)

(3) Exclude hours if margin is greater than 25%. Therefore, some seasons will have less than 65 hours [cells highlighted below]

Sample Calculation Central + North			South			_				
Planning Year	Summer	Fall	Winter	Spring	Total	Summer	Fall	Winter	Spring	Total
2018-2019	65	65	54	4	188	65	65	15	65	200
2019-2020	65	49	0	0	114	65	65	7	2	139
2020-2021	65	19	65	37	186	65	65	100	28	258
Total	195	133	119	41		195	195	112	95	

Case No. EF-2024-0021 Schedule CME-r5, Page 14 of 37

When There aren't Enough Tier 2 Hours in a Season

A Point of Contention Among Stakeholders

- The number of RA hours may vary during individual seasons when the 25% maximum margin is applied or individual resources receive outage exemptions, impacting sample sizes and resulting accreditation calculations
- In these cases, small sample sizes could impact accreditation, overstating or understating expected availability and introducing volatility
- If RA hours for a season for a Planning Year fall below the 3% target (65 hours), then the data will be supplemented for the deficient number of hours, with the Annual Average Offered Capacity for the annual RA hours defined as the tightest 3% margin hours of for the Planning Year
 - The Tier 2 portion of the accreditation will be based on tightest hours of the year by determining annual resource adequacy hours and calculating Annual Average Offered Capacity during the tightest 3% margin hours of the year for each resource

This idea is unpopular among stakeholders, as it could result in a resource being accredited in Spring, for example, using availability data from a completely Case No. EF-2024-0021 different season.
 Schedule CME-r5, Page 15 of 37

Historical Availability Means That All Types of Outages are Considered

Planned Outages Now Affect Capacity Accreditation

• While Planned Outages certainly affect availability, if an outage is planned more than 120 days in advance, during a stretch of time in which MISO's Maintenance Margin is positive, a Resource may be eligible for an exemption, hence not affecting capacity accreditation.

	Maintenance Margin >=0 for duration of outage	Maintenance Margin <0 for any day in the duration of outage	Tier Exemption Tier 1 & 2 (Full)
>120 days, no outage in previous 120 days	Exempt Tier 1 & 2	Exempt Tier 1 Only	Tier 1 Only (Partial) No Exemption
>120 days, outage in previous 120 days, or between 30-119 days	Exempt Tier 1 Only	No Exemption	High Tim 2 Tight Houry
14-30 days and no harm*	Exempt Tier 1 Only	No Exemption	Reinability Risks Tier 1
Outage moved per MISO	Full Exemption (weather, forced, conditions in BPM- 008 section 4.3)		Non-tight Hours Low
request	Rescheduled to a better margin	N/A Case No. E Schedule CME-r5, I	CF-2024-0021 Page 16 of 37

Capacity Replacement Requirement

Planned Outages Scheduled for longer than 31 Days

- A cleared Resource with a Planned Outage scheduled longer than 31 days within a Season, must replace capacity for each outaged day beyond the 31st day.
- This rule has been heavily contested by stakeholders, as it assumes a liquid market for replacement capacity, which barely exists in the annual construct today.
- Other concerns around "outage gaming" and "auction offer inflation," have surfaced during the development of this requirement.

Case No. EF-2024-0021 Schedule CME-r5, Page 17 of 37

Ameren Missouri Impacts

Expectations Under a Seasonal Construct

ANNUAL

- Under the Summer-peaking Annual Construct, Ameren Missouri historically served ~7500mw of capacity demand, and was accredited ~9000mw of UCAP supply.
- The additional ~1500mw was either sold bilaterally to other Load Serving Entities or offered to MISO through the annual Planning Resource Auction, contributing \$5-\$10million per year in OSS capacity revenue.

SEASONAL

- OSS capacity revenue will likely be reduced to zero with the retirement of Meramec 1-4 and Rush Island 1-2.
- Winter CTG capacity accreditation will be greatly reduced under the SAC rules, since the bulk of the fleet is unavailable during cold weather.
- In summary, under a Seasonal Construct, Ameren Missouri is likely to accredited less supply, but also be responsible for serving reduced loads, especially in Fall, Winter, and Spring. In any case, EM&T will be managing its capacity position season to season, as opposed to making forward sales.

Case No. EF-2024-0021 Schedule CME-r5, Page 18 of 37
FERC Issues Deficiency Notice on MISO's SAC Filing

RTO Insider Reported on FERC's Areas of Concern

- 1. MISO should provide quantitative evidence that demonstrates historical performance of units is more indicative of future performance than the existing UCAP method.
- 2. MISO should explain why it didn't apply historical availability treatment to wind and solar.
- 3. MISO should fully explain its requirement that units replace their cleared capacity that's on outage beyond 30 days when where is a requirement for a 120-day period between a unit's planned outage.
- 4. MISO should report on the health of the bilateral capacity market in support of the 50% Minimum Capacity Obligation.
- 5. Other various concerns were voiced.

Case No. EF-2024-0021 Schedule CME-r5, Page 19 of 37

What is changing?	Why & How?
 MISO is implementing a seasonal capacity product; ditching the annualized capacity product approach Planning reserve margins (demand) will differ season by season 	 Resource adequacy concerns have shifted away from 'summer-only' to now, year-round concerns The old structure was based on 'Summer Coincident Peak Demand forecasts' MISO has declared 40 MaxGen events (i.e. times of extreme stress on the grid, all available unit are in use, completely curtailed non-firm exports, generators instructed to start off-line units,etc) with more than 60% occurring outside of the Summer months (see table below) Number of Days Under a MaxGen Alert. Warning, or Event Number of Days Under a MaxGen Alert. Warning, or Event Solenty 200400 200401 MaxGen events shifting away from summer due to baseload generation retirements, increasingly severe/unpredictable weather causing forced outages like arctic blasts, polar

vortexes, etc.

Case No. EF-2024-0021 Schedule CME-r5, Page 20 of 37

- Thermal resources will be awarded capacity values by season; based on availability
- Same for Demand Response resources

- Availability-based accreditation methodology-based on historic offers in the MISO DA/RT market
 - Formerly, thermal capacity was calculated as: installed capacity adjusted by forced outage rate
- It will be a weighted tier structure— where historical availability/offers during 'RA hours (i.e. high risk hours) are weighted more heavily than availability during normal conditions
 - RA hours are the highest risk hours in any given season
 - MISO is aiming for a 65 hour target that would include any historic maxgen events + remaining hours with tightest operating margins (capped at a max operating margin of 25%)
 - 65 hours = riskiest 3% of hours of the season
 - Any season can be more or less than 65 hours– let's say if duration of max gen events one winter exceeds 65 hours; or less, given the cap of 25% operational margin
 - RA hours = 'tier 2 hours'; all other hours are considered tier 1
- Over the next three planning years
 we will ease into the tier-weighted RA hours methodology
 as follows:
 - In the 1st year, 2023/24: 40% weight non-risky hours and 60% for RA hours
 - In the 2nd year, 2024/25: 30% weight for non-risky hours and 70% for RA hours
 - In the 3rd year, 2025/26: 20% weight for non-risky hours and 80% for RA hours
- MISO North and South will receive different RA hours since weather / grid conditions vary region to region

- Wind resources will receive seasonal capacity values via a blended methodology– ELCC adjusted by RA hours
- Solar will have the same treatment. The only issue is there is significantly less solar resources on the MISO grid and thus less historical operational data. More updates to come here.

- For wind, ELCC studies will be done per season- then adjusted for RA hours
- Wind will get better capacity values in the shoulder months
 with little accreditation in the
 summer. Solar will naturally be summer-heavy
- The graph below shows historic capacity values (as a percentage of nameplate) for wind. This
 gives a base-idea of what sort of 'availability' might be factored into the new accreditation
 equation

Unit-level ISAC by season from historical wind resources



UEC Capacity Positon



Schedule CME-r5, Page 23 of 37

UNITED STATES OF AMERICA BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

Midcontinent Independent System Operator, Inc.)

Docket No. ER22-495-000

COMMENTS OF AMEREN SERVICES COMPANY

Pursuant to Rules 212 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("FERC" or "Commission"), 18 C.F.R. § 385.212, and the Commission's Combined Notice of Filings #1 issued on December 30, 2021,¹ Ameren Services Company on behalf of Ameren Illinois Company d/b/a Ameren Illinois ("Ameren Illinois"), Union Electric Company d/b/a Ameren Missouri ("Ameren Missouri") and Ameren Transmission Company of Illinois ("ATXI") (collectively "Ameren"), respectfully submits these comments² in the above-captioned proceeding concerning the November 30, 2021, submission of the Midcontinent Independent System Operator, Inc. ("MISO") to establish Resource Adequacy Requirements on a seasonal basis for each of the Summer, Fall, Winter and Spring Seasons, and to implement an availability-based Seasonal Accredited Capacity ("SAC") methodology for resources participating in MISO's annual Planning Resource Auction ("PRA"). Ameren respectfully requests that the Commission direct MISO to respond to the concerns raised herein and modify its proposal accordingly.³

¹ On December 9, 2021, the Commission issued a Notice of Extension of Time to submit comments until January 14, 2022 in this proceeding.

² Ameren Services Company submitted a doc-less motion to intervene on behalf of Ameren Illinois, Ameren Missouri and ATXI on December 13, 2021 (Accession No. 20211213-5157) and therefore, is a party to this proceeding.

³ The Court of Appeals for the District of Columbia Circuit has held that, in certain circumstances, the Commission has "authority to propose modifications to a utility's [FPA section 205] proposal *if the utility consents to the modifications*." *NRG Power Mktg., LLC v. FERC*, 862 F.3d 108, 115 (D.C. Cir. 2017).

I. BACKGROUND

MISO explains that it is experiencing significant shifts in generation resource retirement, increased reliance on intermittent resources, significant weather events with correlated generator outages, and declining excess reserve margins. MISO explains that reliability risks associated with Resource Adequacy have shifted from "Summer only" to a year-round concern and that since 2016 more than 60% of Maximum Generation ("MaxGen") declarations have occurred outside the Summer months.⁴ To address this shift, MISO proposes the establishment of a seasonal Resource Adequacy construct coupled with availability-based accreditation for certain Planning Resources.

More specifically, MISO intends to transition from the current Summer-based, annual construct to four distinct Seasons: June to August for Summer, September to November for Fall, December to February for Winter, and March to May for Spring. Under the proposed construct, MISO will establish Planning Reserve Margin Requirements ("PRMR") for all Market Participants ("MPs") representing Load Serving Entities ("LSEs") on a seasonal basis. MISO will then conduct the PRA and establish an Auction Clearing Price for each Local Resource Zone ("LRZ") for each Season. The PRA will still be conducted one time per year, in the Spring before the applicable Planning Year, but will clear the requirements for each season.⁵

MISO also proposes accreditation reforms to assure that resources are available when needed the most by aligning resource accreditation with availability during the highest periods in question. Specifically, MISO proposes to determine the SAC for certain classes of resources. Additionally, MISO proposes a tiered weighting structure, with a transition period, to determine

⁴ MISO November 30, 2021 Filing Transmittal Letter, page 3.

⁵ *Id.* at page 4.

individual resource accreditation by season based on each resource's real-time offered

availability, accounting for coordinated planned outages.⁶

II. COMMUNICATIONS AND CORRESPONDENCE

All communications, correspondence, and documents related to this proceeding should be directed to the following persons:

Matt R. Tomc Director and Asst. General Counsel Ameren Services Company 1901 Chouteau Avenue (MC 1310) St. Louis, MO 63103 Phone: (314) 554-4673 <u>mtomc@ameren.com</u>

III. COMMENTS

Ameren generally supports MISO's efforts to improve the planning auction to reflect seasonality and to require some form of accreditation and believes with certain adjustments to the availability-based accreditation provisions, MISO's two proposed reforms could be found to be just and reasonable.

Ameren agrees with MISO's proposed shift to seasonal Resource Adequacy ("RA") Requirements. As MISO explains, the proposal will mitigate resource adequacy risks across the year, and not just in the peak Summer season. As load serving entities, the Ameren companies are acutely aware of the need to align resource availability with seasonal needs and thus support that aspect of MISO's two-part proposal.

⁶ *Id.* at page 5.

However, Ameren does not support MISO's proposed accreditation provisions. While Ameren agrees that MISO's accreditation requirements need to be updated and strengthened, as discussed below the proposed reforms have not been shown to be just and reasonable. The proposal to apply the accreditation provisions to only Capacity Resources that are Demand Response Resources or Generation Resources (referred to as "Schedule 53 Resources" by MISO) and to except Dispatchable Intermittent Resources, Intermittent Generation, Electric Storage Resources, External Resources or Use Limited Resources until a future filing is made does not result in comparable treatment of all resource types and undermines the purpose of requiring accreditation.

For the Non-Schedule 53 Resources, MISO's proposal is to allow those resources to use current accreditation. Essentially, for these resources, MISO is not requiring anything more – no greater accountability, despite MISO acknowledging that "sizeable segments of dispatchable thermal generation are aging with correlated increased outage rates, and MISO's resource portfolio is shifting to increasing amounts of intermittent and highly weather-dependent wind and solar resources, all against a backdrop of lower excess reserve margins."⁷ While MISO claims to have shaped the accreditation by season for the Non-Schedule 53 Resources, what MISO did was limited. It simply shaped the Effective Load Carrying Capability ("ELCC") by season; it did not materially adjust accreditation for these resources in a comparable manner as the Schedule 53 Resources.⁸

⁷ MISO November 30, 2021 Filing Transmittal Letter, page 11.

⁸ See, October 6, 2021 presentation of the MISO Independent Market Monitor, Potomac Economics, "Capacity Accreditation: Adjusting for the UCAP to SAC Shift" which identifies problems with adjusting the demand by the SAC/UCAP ratio including that the ratio is not applied to Non-Thermal Resources. Further stating that "Since they will not be accredited using SAC initially, they will implicitly receive and effective up-rate due to the proration of the PRMR" and "[t]his is discriminatory and creates inefficient incentives favoring non-thermal resources."

Ameren is also concerned that the proposed tiered weighting structure to determine individual resource accreditation by Season based on each resource's real-time offered availability during Tier 1 hours (*i.e.*, all hours not including RA hours) and Tier 2 hours (*i.e.*, RA hours) unduly discriminates against and unjustly penalizes certain resources by determining RA hours for each season based on MaxGens and the 65 hours with the tightest operating margin. While the introduction of Tier 2 hours may make sense for certain generators where there is a correlation between availability and season and where the generator can take action to avoid the unavailability (e.g., combustion turbine generators with interruptible winter fuel supplies), it does not make sense when there is an event beyond the control of the generator (e.g., tube leak at a steam plant in the middle of summer). Moreover, the application of an 80% weighting factor to RA hours can be especially punitive to an otherwise reliable and well-performing generator that was unavailable during the often-times randomly occurring RA hour. For seasons that do not have 65 RA hours, the proposed accreditation calculation uses annual averages to fill the gap, which results in an accreditation that does not accurately reflect seasonal performance.

Ameren also questions MISO's proposal to limit outage related exemptions (Tier 1 and Tier 2). As proposed, the exemption rules consider whether an outage is submitted more than 120 days in advance, whether there is a positive Maintenance Margin for the duration of the outage, and whether the outage is scheduled to start less than 120 days from the end of the previous outage.⁹ It appears that under the proposal any outages scheduled less than 120 days but for which a Maintenance Margin exists cannot receive an exemption for Tier 2 and thus excludes hours that should be used for planned outages. MISO should be directed to revise the

<u>Microsoft PowerPoint - Independent Market Monitor-Converting UCAP Requirement under Seasonal Accredited</u> <u>Capacity.pptx (misoenergy.org)</u>.

⁹ MISO November 30, 2021 Filing Transmittal Letter, page 49.

tariff language to require that either the 120 days *or* the Maintenance Margin is met, but not both.

In short, MISO's proposal acts as a disincentive rather than incentive for resources to be available; it penalizes resources for actions that cannot be avoided. The Commission should look warily at yet another proposal that disincentivizes resource participation in the PRA.

Finally, MISO's proposal to require replacement for any Planning Resource that will be on planned outage or planned derate for more than 31 days in a Season in which they clear creates the potential for the exercise of market power. MISO explains that consistent with current tariff requirements, replacements can only be made from uncleared ZRCs, and that existing rules regarding deliverability and zonal transfer limits will apply.¹⁰ MISO's proposed requirement to replace capacity for planned outages lasting more than 31 days in a Season mistakenly assumes there is a robust and liquid Replacement Capacity Market. In Ameren's experience, the current construct that provides for "balance of the Planning Year" to find Replacement Capacity is already challenging because liquidity is often low. Ameren has no confidence that moving to a shorter period to find Replacement Capacity will actually improve liquidity or that there will be interest in selling Replacement Capacity for days and not weeks or months (e.g., if a formerly 31-day outage is extended to 39 days Ameren would need to find Replacement Capacity for 8 days). While MISO acknowledges the lower reserve margins,¹¹ it fails to acknowledge the lack of liquidity in the replacement market and thus the potential for the exercise of market power.

¹⁰ *Id.* at page 14.

¹¹ *Id.* at page 11.

IV. CONCLUSION

Wherefore, for the foregoing reasons, Ameren respectfully requests that the Commission take these comments under consideration and direct MISO to address the concerns raised herein, *e.g.*, through deficiency letter, technical conference. This is necessary to ensure the proposal is just and reasonable effective September 1, 2022 as requested.

Respectfully submitted,

/s/ Matthew R. Tomc_____

Matthew R. Tomc Director and Asst. General Counsel Ameren Services Company 1901 Chouteau Avenue (MC 1310) St. Louis, MO 63103 Phone: (314) 554-4673 <u>mtomc@ameren.com</u>

Dated: January 14, 2022

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CERTIFICATE OF SERVICE

I hereby certify that I have this day served the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding.

Dated at Washington, D.C., this 14th day of January, 2022.

/s/ Denice S. Simpson

MISO MISO

Resource Adequacy Reforms: Requirement and Accreditation Changes

Ameren

Bob Kuzman

Case No. EF-2024-0021 Schedule CME-r5, Page 32 of 37

Data formatting walk-through



- 1. NERC ID
- 2. PY21-22 Results. Current Annual Surplus/Deficit, "A", becomes the starting point for the table below.
- 3. This section shows two changes to the demand requirement, seasonal and SAC changes, and their sum (B), expressed as an improvement to the surplus/deficit (positive number), or a detriment to the surplus/deficit (negative number).
- 4. This section shows two changes to resource accreditation, seasonal and SAC changes, and their sum (C), expressed as an improvement to the surplus/deficit (positive number), or a detriment to the surplus/deficit (negative number).
- 5. The net impact of changes to the RA construct. This column (D) is the sum of the starting point (A), and the net changes in (B) and (C).

Case No. EF-2024-0021

Schedule CME-r5, Page 33 of 37



Ameren Updated Surplus/Deficit by Season

MP		PY21-22 Annual Requirement	7,446
AMUE	•	PY21-22 Ucap	8,949
		Current Annual Surplus/Deficit (A)	1,502

Season	Current Annual Surplus/Deficit (A)	Change in Requirement from Moving to Seasonal	Change in Requirement from Moving to SAC	Netchange in Requirement (B)	Change in Accreditation from Moving to Seasonal	Change in Accreditation from Moving to SAC	Netchange in Accreditation (C)	New Seasonal Surplus/Deficit SAC (D=A+B+C)
summer	1,502	129	432	561	-200	279	80	2,143
fall	1,502	630	1,062	1,692	-86	-874	-960	2,235
winter	1,502	329	850	1,179	-1,319	-530	-1,849	832
spring	1,502	731	893	1,623	-1,264	248	-1,015 Case No. EF- 2	
						Schedul	e CME-r5 Pac	re 34 of 37 -

Schedule CME-r5, Page 34 of 37

In this surplus/deficit view, positive numbers increase a surplus and negative numbers decrease a surplus.



CP-Node Caveats

1. Analysis began with the CPNode list from the 2021-2022 PRA; any additional ZRC transactions between MPs were not included.

- 2.Removed wind/solar/BTMG/DR/EE/External and Run-of-river resources.
- 3.CPNodes with zero converted ZRC value from PRA were excluded
- 4.All combined cycle information is grouped with the "parent" CP Node
- 5. Created separate column with different CPNode Name for some resources that may have offered into RT differently than how they participate in PRA
- 6.New or retired resources after April 2021 may not be reflected in data
- 7. This analysis covers 97% of generators in the MISO footprint.

RASC materials posted for this week's meeting include an example that walks through a hypothetical SAC accreditation evaluation.

Case No. EF-2024-0021 Schedule CME-r5, Page 35 of 37



CP-Node Details

			summer			fall			winter			spring	
LRZ	T+ CP Nodes	Seasonal UCAP	Seasonal Accredited Capacity (SAC)	Change in Accreditation from Moving to SAC	Seasonal UCAP	Seasonal Accredited Capacity (SAC)	Change in Accreditation from Moving to SAC	Seasonal UCAP	Seasonal Accredited Capacity (SAC)	Change in Accreditation from Moving to SAC	Seasonal UCAP	Seasonal Accredited Capacity (SAC)	Change in Accreditation from Moving to SAC
4	AMMO.GOOSEGEN1	61	68	7	63	65	2	5	34	29	0	65	65
	AMMO.GOOSEGEN2	67	73	6	69	65	-4	40	37	-3	0	69	69
	AMMO.GOOSEGEN3	48	67	19	50	53	4	28	31	3	24	62	38
	AMMO.GOOSEGEN4	54	74	19	56	66	10	70	38	-31	57	69	12
	AMMO.GOOSEGEN5	68	74	6	70	63	-6	34	38	4	0	69	69
	AMMO.GOOSEGEN6	50	57	7	52	56	5	30	44	14	42	61	19
	AMMO.KMDYCTG1	52	84	32	53	63	10	0	44	44	50	70	20
	AMMO.KMDYCTG2	77	93	16	79	102	23	0	52	52	68	87	19
	AMMO.PNKYCTG1	42	42	0	42	35	-8	3	16	13	22	35	13
	AMMO.PNKYCTG2	43	44	1	43	33	-10	3	13	10	20	34	13
	AMMO.PNKYCTG3	42	43	2	42	35	-7	2	15	13	19	35	16
	AMMO.PNKYCTG4	41	43	2	41	34	-7	2	16	14	19	33	14
	AMMO.PNKYCTG5	27	23	-3	27	20	-7	0	11	11	0	23	23
	AMMO.PNKYCTG6	21	21	0	21	20	-1	0	10	10	1	23	22
	AMMO.PNKYCTG7	26	31	6	26	33	8	2	19	18	10	31	20
	AMMO.PNKYCTG8	17	18	0	17	19	1	0	10	10	1	20	19
	AMMO.RCCKCTG1	58	70	11	60	71	11	49	38	-12	18	57	39
	AMMO.RCCKCTG2	56	47	-9	57	68	10	12	19	7	19	43	24
	AMMO.RCCKCTG3	48	70	22	49	72	22	43	30	-13	0	52	52
	AMMO.RCCKCTG4	52	65	12	54	70	16	27	29	2	0	50	50
	AMMO.VENCTG2	45	42	-3	46	35	-12	23	17	-6	37	32	-5
	AMMO.VENCTG3	146	165	19	148	122	-26	3	74	72	25	133	109
	AMMO.VENCTG4	137	149	12	139	124	-15	9	80	71	17	130	114
	AMMO.VENCTG5	66	94	28	68	90	22	1	48	47	9	81	72

Case No. EF-2024-0021 Schedule CME-r5, Page 36 of 37 **MISO**

CP-Node Details

LRZ	CP Nodes	Seasonal UCAP	Seasonal Accredited Capacity (SAC)	Change in Accreditation from Moving to SAC	Seasonal UCAP	Seasonal Accredited Capacity (SAC)	Change in Accreditation from Moving to SAC	Seasonal UCAP _{Ci}	Seasonal Accredited apacity (SAC)	Change in Accreditation from Moving to SAC	Seasonal UCAP	Seasonal Accredited Capacity (SAC)	Change in Accreditation from Moving to SAC
5	AMMO.AUDRN11	68	73	5	70	73	3	21	47	26	40	69	28
	AMMO.AUDRN22	67	74	7	69	73	4	72	42	-29	46	65	19
	AMMO.AUDRN33	69	74	5	71	73	3	25	43	18	56	69	13
	AMMO.AUDRN44	65	74	9	67	73	7	30	43	13	48	69	21
	AMMO.AUDRN55	64	74	10	65	73	8	51	43	-8	21	69	48
	AMMO.AUDRN66	64	74	10	66	74	8	53	43	-10	32	70	37
	AMMO.AUDRN77	53	70	17	54	67	13	9	39	30	0	62	62
	AMMO.AUDRN88	55	66	11	57	66	10	9	39	30	25	63	38
	AMMO.CALLAWAY1	1,157	1,177	21	1,172	1,000	-172	1,200	804	-396	1,193	859	-334
	AMMO.FGRDCTG1	32	45	13	33	45	12	29	40	11	7	36	29
	AMMO.LABADIE1	559	563	4	566	579	13	582	578	-5	569	524	-46
	AMMO.LABADIE2	569	534	-35	576	415	-161	590	524	-66	554	520	-35
	AMMO.LABADIE3	540	552	13	546	378	-168	543	555	12	543	520	-23
	AMMO.LABADIE4	551	550	-1	557	554	-3	538	572	35	533	548	15
	AMMO.MERAMEC1	102	101	-2	104	89	-15	100	41	-59	80	67	-13
	AMMO.MERAMEC2	100	93	-7	102	81	-21	100	40	-60	94	64	-29
	AMMO.MERAMEC3	182	116	-66	184	127	-57	193	105	-88	199	135	-64
	AMMO.MERAMEC4	254	239	-15	258	167	-90	247	237	-10	277	199	-78
	AMMO.MERAMECT2	24	3	-21	24	9	-15	10	2	-8	33	3	-30
	AMMO.MEXCTG1	34	49	15	35	50	15	45	46	0	40	50	10
	AMMO.MOBCTG1	35	43	8	37	45	9	15	46	31	22	47	25
	AMMO.MORUCTG1	33	48	15	34	50	15	43	53	10	35	47	12
	AMMO.PENOCTG1	35	38	4	35	19	-16	51	33	-18	45	37	-8
	AMMO.PENOCTG2	46	41	-5	47	27	-20	46	32	-14	45	38	-7
	AMMO.PENOCTG3	40	36	-4	41	34	-7	45	29	-15	41	29	-12
	AMMO.PENOCTG4	38	46	8	39	27	-11	37	32	-6	43	40	-3
	AMMO.RUSHIS1	503	567	64	508	490	-18	519	502	-17	523	498	-25
	AMMO.RUSHIS2	530	561	31	535	581	45	511	469	-42	516	522	5

Case No. EF-2024-0021 Schedule CME-r5, Page 37 of 37 MISO Case No. EF-2024-0021

SCHEDULE CME-r6

HAS BEEN DEEMED

CONFIDENTIAL

IN ITS ENTIRETY

Case No. EF-2024-0021

SCHEDULE CME-r7

HAS BEEN DEEMED

CONFIDENTIAL

IN ITS ENTIRETY

Page 1

1	IN THE UNITED STATES DISTRICT COURT
2	EASTERN DISTRICT OF MISSOURI
3	EASTERN DIVISION
4	
5	UNITED STATES OF MISSOURI,)
6	Plaintiff,)
7	vs.) Civil Action No.
8) 4:11-CV-00077-RWS
9	AMEREN MISSOURI,)
10	Defendant.)
11	
12	VIDEOTAPED 30(b)(6) DEPOSITION OF KYRA MOORE
13	TAKEN ON BEHALF OF AMEREN MISSOURI
14	SEPTEMBER 18, 2013
15	
16	VIDEOTAPED 30(b)(6) DEPOSITION OF KYRA MOORE,
17	produced, sworn, and examined on September 18, 2013, between
18	the hours of 8:30 a.m. and 7:10 p.m. of that day at the
19	offices of Stinson Morrison Hecker, LLP, 230 W. McCarty
20	Street, Jefferson City, Missouri, before Jennifer L. Leibach,
21	CCR No. 1108, within the state of Missouri, in a certain
22	cause now pending in the United States District Court,
23	Eastern District of Missouri, Eastern Division, wherein
24	United States of America is the plaintiff and Ameren Missouri
25	is the defendant.

	Page 2		Page 4
1	APPEARANCES	1	INDEX
2	FOR THE PLAINTIFF:	2	
3	Mr. Andrew C. Hanson	3	EXAMINATIONS
4	Mr. Bradford McLane	4	Direct Examination by Mr. Bonebrake 8
5	U.S. DEPARTMENT OF JUSTICE	5	Cross-Examination by Mr. Hanson 251
6	601 D Street N.W.	6	Redirect Examination by Mr. Bonebrake 291
7	Washington, DC 20004	7	Realized Examination of this Doneorate 201
8	(202) 514-9859	8	EXHIBIT INSTRUCTIONS
9	Andrew.hanson@usdoj.gov	9	Original exhibits to be attached to the original
10		10	transcript.
11	FOR THE DEFENDANT:	11	tansenpt.
12	Mr. Stephen J. Bonebrake	12	EXHIBIT INDEX:
13	Mr. David M. Loring	13	Exhibit No. 1
14	SCHIFF HARDIN, LLP	14	Subpoena for a 30(b)(6) deposition 7
15	6600 Sears Tower Chicago Illinois 60606	15	Exhibit No. 2
16 17	Chicago, Illinois 60606 (312) 258-5646	16	Binder, Volume 1 19
18	Sbonebrake@schiffhardin.com	17	Exhibit No. 3
19	Storieorane e seminardineorin	18	Binder, Volume 2 19
20	FOR THE WITNESS:	19	Exhibit No. 4
21	Mr. Timothy P. Duggan	20	
22	OFFICE OF THE ATTORNEY GENERAL	20	List of MoDOT Employees 33 Exhibit No. 5
23	PO Box 899	22	Construction Permit Review 48
24	Jefferson City, Missouri 65102	23	Procedure Manual
	(573) 751-3640	23	Exhibit No. 6
25	Tim.duggan@ago.mo.gov	25	
		25	Missouri Construction Permitting Rules 60
	Page 3		Page 5
1		1	,
1	APPEARANCES	1	EXHIBITS INDEX (continued):
2	A P P E A R A N C E S FOR THE US EPA/REGION 7:	2	EXHIBITS INDEX (continued): Exhibit No. 7
2 3	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen	2 3	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88
2 3 4	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard	2 3 4	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8
2 3 4 5	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219	2 3 4 5	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103
2 3 4 5 6	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962	2 3 4 5 6	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9
2 3 4 5 6 7	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219	2 3 4 5 6 7	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107
2 3 4 5 6	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov	2 3 4 5 6	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant
2 3 4 5 6 7 8 9	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER:	2 3 4 5 6 7 8 9	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10
2 3 4 5 6 7 8 9 10	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108	2 3 4 5 6 7 8 9 10	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113
2 3 4 5 6 7 8 9 10 11	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING	2 3 4 5 6 7 8 9 10 11	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric
2 3 4 5 6 7 8 9 10 11 12	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW	2 3 4 5 6 7 8 9 10 11 12	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11
2 3 4 5 6 7 8 9 10 11 12 13	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200	2 3 4 5 6 7 8 9 10 11 12 13	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11 3/29/06 Letter to Associated Electric 120
2 3 4 5 6 7 8 9 10 11 12 13 14	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036	2 3 4 5 6 7 8 9 10 11 12 13 14	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11 3/29/06 Letter to Associated Electric 120 Exhibit No. 12
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376	2 3 4 5 6 7 8 9 10 11 12 13 14 15	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11 3/29/06 Letter to Associated Electric 120 Exhibit No. 12 3/5/08 Applicability Determination 127
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376 ALSO PRESENT: Sam Schneiders, Videographer	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11 3/29/06 Letter to Associated Electric 120 Exhibit No. 12 3/5/08 Applicability Determination 127 Exhibit No. 13
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11 3/29/06 Letter to Associated Electric 120 Exhibit No. 12 3/5/08 Applicability Determination 127 Exhibit No. 13 Applicability Determination 140
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376 ALSO PRESENT: Sam Schneiders, Videographer	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11 3/29/06 Letter to Associated Electric 120 Exhibit No. 12 3/5/08 Applicability Determination 127 Exhibit No. 13 Applicability Determination 140 Exhibit No. 14
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376 ALSO PRESENT: Sam Schneiders, Videographer	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11 3/29/06 Letter to Associated Electric 120 Exhibit No. 12 3/5/08 Applicability Determination 127 Exhibit No. 13 Applicability Determination 140 Exhibit No. 14 Letter from John Noedel 147
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376 ALSO PRESENT: Sam Schneiders, Videographer	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11 3/29/06 Letter to Associated Electric 120 Exhibit No. 12 3/5/08 Applicability Determination 127 Exhibit No. 13 Applicability Determination 140 Exhibit No. 14 Letter from John Noedel 147 Exhibit No. 15
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376 ALSO PRESENT: Sam Schneiders, Videographer	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	EXHIBITS INDEX (continued): Exhibit No. 7 7/21/06 Letter to Associated Electric 88 Exhibit No. 8 General Overview of Air Permitting 103 Exhibit No. 9 No Permit Required Letter for Sibley 107 Plant Exhibit No. 10 Permit Applicability for Associated 113 Electric Exhibit No. 11 3/29/06 Letter to Associated Electric 120 Exhibit No. 12 3/5/08 Applicability Determination 127 Exhibit No. 13 Applicability Determination 140 Exhibit No. 14 Letter from John Noedel 147 Exhibit No. 15 Applicability Determination 150
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376 ALSO PRESENT: Sam Schneiders, Videographer	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	EXHIBITS INDEX (continued):Exhibit No. 77/21/06 Letter to Associated Electric88Exhibit No. 8General Overview of Air Permitting103Exhibit No. 9No Permit Required Letter for Sibley107PlantExhibit No. 10Permit Applicability for Associated113ElectricExhibit No. 113/29/06 Letter to Associated Electric120Exhibit No. 123/5/08 Applicability Determination127Exhibit No. 13Applicability Determination140Exhibit No. 14Letter from John Noedel147Exhibit No. 15Applicability Determination150Exhibit No. 16
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376 ALSO PRESENT: Sam Schneiders, Videographer	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	EXHIBITS INDEX (continued):Exhibit No. 77/21/06 Letter to Associated Electric88Exhibit No. 8General Overview of Air Permitting103Exhibit No. 9No Permit Required Letter for Sibley107PlantExhibit No. 10Permit Applicability for Associated113ElectricExhibit No. 113/29/06 Letter to Associated Electric120Exhibit No. 123/5/08 Applicability Determination127Exhibit No. 13Applicability Determination140Exhibit No. 14Letter from John Noedel147Exhibit No. 15Applicability Determination150Exhibit No. 16Applicability Determination
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376 ALSO PRESENT: Sam Schneiders, Videographer	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	EXHIBITS INDEX (continued):Exhibit No. 77/21/06 Letter to Associated Electric88Exhibit No. 8General Overview of Air Permitting103Exhibit No. 9No Permit Required Letter for Sibley107PlantExhibit No. 10Permit Applicability for Associated113ElectricExhibit No. 113/29/06 Letter to Associated Electric120Exhibit No. 123/5/08 Applicability Determination127Exhibit No. 13Applicability Determination140Exhibit No. 14Letter from John Noedel147Exhibit No. 15Applicability Determination150Exhibit No. 16Applicability Determination150Exhibit No. 16Applicability Determination150Exhibit No. 16Applicability Determination162Exhibit No. 17
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A P P E A R A N C E S FOR THE US EPA/REGION 7: Mr. Alex Chen 11201 Renner Boulevard Lenexa, Kansas 66219 (913) 551-7962 Chen.alex@epa.gov CERTIFIED COURT REPORTER: Jennifer L. Leibach, CCR No. 1108 ALDERSON COURT REPORTING 1155 Connecticut Ave, NW Suite 200 Washington, DC 20036 (800) 367-3376 ALSO PRESENT: Sam Schneiders, Videographer	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	EXHIBITS INDEX (continued):Exhibit No. 77/21/06 Letter to Associated Electric88Exhibit No. 8General Overview of Air Permitting103Exhibit No. 9No Permit Required Letter for Sibley107PlantExhibit No. 10Permit Applicability for Associated113ElectricExhibit No. 113/29/06 Letter to Associated Electric120Exhibit No. 123/5/08 Applicability Determination127Exhibit No. 13Applicability Determination140Exhibit No. 14Letter from John Noedel147Exhibit No. 15Applicability Determination150Exhibit No. 16Applicability Determination

2 (Pages 2 to 5)

Case No. EF-2024-0021 Schedule CME-r8, Page 2 of 136

Jefferson City, MO

	Page	e 6		Page 8
1	EXHIBIT INDEX (continued):		1	Department of Natural Resources.
2	Exhibit No. 18		2	MR. HANSON: Andrew Hanson with the U.S.
3	Applicability Determination 183	.	3	Department of Justice and I'm here on behalf of plaintiff,
4	Exhibit No. 19		4	United States.
5	Letter from MDNR 190		5	MR. MCLANE: Brad McLane also on behalf of
6	Exhibit No. 20		6	United States.
7	Applicability Determination 196		7	MR. CHEN: Alex Chen with the U.S.
8	Exhibit No. 21		8	Environmental Protection Agency, Region 7.
9	Permit 209		9	MR. BONEBRAKE: And then I have just one
10	Exhibit No. 22		10	clarification. This is a Rule 30(b)(6) deposition of the
11	Permit 223		11	Missouri Department of Natural Resources. And as I
12	Exhibit No. 23		12	understand it, Ms. Moore is has been designated by that
13	Project Applicability for City Utilities 2	34	13	agency to testify today on its behalf. So if we don't have
14	Exhibit No. 24		14	any preliminaries, then we'll proceed to some questions.
15	Applicability Determination 239	,	15	VIDEOGRAPHER: And then the swearing in.
16	Exhibit No. 25		16	MR. BONEBRAKE: Okay.
17	3/8/10 MDNR Letter to IPL 24	6	17	VIDEOGRAPHER: And the court reporter will now
18	Exhibit A		18	swear in the witness.
19	Protective Order		19	KYRA MOORE,
20			20	of lawful age, having been produced, sworn, and examined on
21			21	the part of the defendant, testified as follows:
22			22	DIRECT EXAMINATION
23			23	QUESTIONS BY MR. BONEBRAKE:
24			24	Q. Good morning.
25			25	A. Good morning.
	Page	2 7		Page 9
1	IT IS HEREBY STIPULATED AND AGREED by and	1	1	Q. As I just mentioned, my name is Steve
2	between counsel for the plaintiff and counsel for the		2	Bonebrake and I'm with the law firm of Schiff Hardin. We
3	defendant that this deposition may be taken by Jennifer L.		3	represent Ameren Missouri in connection with the lawsuit that
4	Leibach, a Certified Court Reporter, CCR No. 1108, thereafter		4	brings us here today, which includes Clean Air Act brought by
5	*			
	transcribed into typewriting, with the signature of the		5	
б	transcribed into typewriting, with the signature of the witness being expressly reserved.		5 6	the United States, including prevention of significant
6 7	witness being expressly reserved.			the United States, including prevention of significant deterioration program claims.
	witness being expressly reserved. (Exhibit No. 1 was marked for identification.)		6	the United States, including prevention of significant deterioration program claims. Could you please state and spell your full
7	witness being expressly reserved. (Exhibit No. 1 was marked for identification.) VIDEOGRAPHER: Okay. We are on the record.		6 7	the United States, including prevention of significant deterioration program claims. Could you please state and spell your full name for the record?
7 8	witness being expressly reserved. (Exhibit No. 1 was marked for identification.) VIDEOGRAPHER: Okay. We are on the record. Today's date is September the 18th of 2013. The time is		6 7 8	the United States, including prevention of significant deterioration program claims. Could you please state and spell your full name for the record? A. My name is Kyra Moore, first name is K-y-r-a,
7 8 9	witness being expressly reserved. (Exhibit No. 1 was marked for identification.) VIDEOGRAPHER: Okay. We are on the record.		6 7 8 9	the United States, including prevention of significant deterioration program claims. Could you please state and spell your full name for the record? A. My name is Kyra Moore, first name is K-y-r-a, last name is Moore, M-o-o-r-e.
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3 (Pages 6 to 9)

Case No. EF-2024-0021 Schedule CME-r8, Page 3 of 136

Jefferson City, MO

	Page 10		Page 12
	2		_
1	A. March 5th, 1968.	1	Resources?
2	Q. 1968? I would like to to show you a an	2	A. Yes.
3	exhibit that's been marked Moore/MDNR. It's been marked for	3	Q. I will use NSR as short for New Source Review,
4	identification as Exhibit No. 1.	4	which is comprised of the prevention of significant
5 6	MR. BONEBRAKE: Dave, if you could hand that out to the folks around the table.	5	deterioration and non-attainable NSR programs. Is that okay
7		7	as well? A. Yes.
8	THE WITNESS: Sony. Yes. BY MR. BONEBRAKE:	8	A. 16S.Q. PSD, short for the prevention of short
9	Q. And this is a copy of the subpoena with a	9	deterioration program.
10	writer for the 30(b)(6) deposition today and that writer	10	A. Yes.
11	contains a number of topics for you of the deposition of	11	Q. And if I use any acronyms during the course of
12	Missouri Department of Natural Resources.	12	the deposition and you're not sure what I'm asking you, again
13	And do you understand, Ms. Moore, that you are	13	let me know and I'll try to state it out so that
14	testifying today on behalf of the Missouri Department of	14	A. Okay.
15	Natural Resources with respect to the topics that are	15	Q. – we have a common understanding of what I
16	identified in the writer to the subpoena?	16	ask. And if you use an acronym in the course of your answer,
17	A. Yes, I do.	17	I may ask you to spell it out in the record as well.
18	Q. I'd like to start with just a few general	18	A. Okay.
19	instructions for the deposition with the with the goal of	19	Q. And if you need a break during the course of
20	trying to get as clean and understandable of a transcript as	20	the deposition, let us know and we'll take a break as soon as
21	we can for our conversation today. We will - we will	21	we can, consistent with the line of questioning that we're
22	proceed question-and-answer style, so I will ask questions	22	on.
23	and ask then for you to answer those questions. So if you	23	And you understand that you are testifying
24	could wait for me to complete my questions, I would	24	today under oath?
25	appreciate it and I will try to wait for you to complete your	25	A. Yes.
	Page 11		Page 13
1	2	1	,
1 2	answers before I ask you any further questions.	1	Q. Are you represented by counsel today at the
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2	answers before I ask you any further questions. A. Okay. Q. If there's something ambiguous in my	2	Q. Are you represented by counsel today at the deposition?
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Case No. EF-2024-0021 Schedule CME-r8, Page 4 of 136

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program.

some extent. And our fiscal and budget section, which

handles our budget and our personnel issues within the

Q. Does the compliance and enforcement - do you

	Page 14		Page 16
1	_	1	
1 2	federal Clean Air Act?	2	call that a section?
	A. Through several different sections in our	3	A. Yes, those are all sections.
3 4	program. We do permitting, we do compliance enforcement, we	4	Q. Does that section then have responsibilities for bringing enforcement actions against sources in Missouri
	do planning which involves rulemaking and creation of our	5	
5	SIPS, our state implementation plan, with EPA. We do a	6	that violate the state of Missouri's air regulations?
6	variety of other projects as well		A. Yes, that is one of their duties.
7	Q. Okay.	7	Q. You mentioned there was a permitting section
8	A. – within the program.	8	that reported to you as well?
9	Q. So is is one of the duties of the air	9	A. Yes.
10	program to issue construction permits?	10	Q. And is a duty of the permitting section, then,
11	A. Yes, that's correct.	11	the issuance of PSD permits and the determination of
12	Q. And would that include PSD construction	12	applicability of PSD requirements?
13	permits?	13	A. Yes, that is one of their tasks.
14	A. Yes.	14	Q. And how long have you been director?
15	Q. And is one of the duties of the air program	15	A. Two years.
16	also to make determinations regarding the applicability of	16	Q. And when did you start with MDNR?
17	construction permitting requirements?	17	A. In March of 1999.
18	A. Yes, that's correct.	18	Q. And what was your initial position?
19	Q. And would that include duties to make	19	A. I was hired into the air program as a permit
20	determinations regarding applicability of the PSD program for	20	writer in the construction permit unit in 1999.
21	sources in Missouri?	21	Q. And did you go by a different name, by chance,
22	A. Yes.	22	in 1999?
23	Q. That is correct?	23	A. Yes, I was hired in my maiden name which is
24	A. Yes, that's correct.	24	Hayes, H-a-y-e-s, for about six months.
25	Q. And what are your specific duties as director?	25	Q. Okay. And how long were you permit engineer?
	Page 15		Page 17
1	A. I oversee the program so all the activities of	1	A. I didn't bring that with me. For a couple
2	the program fall under my purview. I have several different	2	years, I wrote permits in that unit and then in approximately
3	managers that assist me with that, but permitting is one of	3	March 2002, I became the supervisor of the construction
4	the main sections of the program in addition to enforcement	4	permit unit. My official title was interim supervisor for a
5	planning that I mentioned earlier and a couple of other	5	couple years and then I was the permit section chief after
6	fiscal and budgets sections.	6	that.
7	Q. So what – what managers report to you?	7	Q. So from – from 1999 to 2002 while you were a
8	A. I have six managers. Do you want their names	8	permit engineer, was your primary duty determining
9	or?	9	applicability of construction permit requirements and issuing
10	Q. No, might be easiest if you will give me	10	construction permits?
11	positions.	11	A. Yes, issuing permits was the main duty.
12	A. Okay. The first we have an inspection	12	Applicability determinations is one part of that, so.
13	maintenance section that's actually housed in our St. Louis	13	Q. And that would have included PSD permits?
14	regional office, but they report to me that manage our	14	A. Yes, I was involved in a couple PSD permits.
15	emission program in the St. Louis non-attainment area. And	15	Q. Now you mentioned your position changed in
16	then the other five sections are housed in the same building	16	2002?
17	with me. The permit section, that's self-explanatory. The	17	2002? A. Yes.
18	planning section that handles the rules and the state	18	A. res.Q. And did you say you became a supervisor at
10 19	implementation plans. The air quality analysis section which	19	that time?
20	handles our emission inventory and our monitoring duties.	20	A. I was the unit chief which is the supervisor
20 21	The compliance enforcement section, again self-explanatory to	20	of that – the construction permit unit, supervising
ᆂ	The compliance differentiate section, again sen-explaitation to	1 44	or that – the construction permit till, supervising

- of that -- the construction permit unit, supervising
 approximately ten permit writers, I believe, for two years.
 - Q. So that brings us to 2004?
 - A. Yes.
 - Q. What happened at that point?

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Case No. EF-2024-0021 Schedule CME-r8, Page 5 of 136

^{5 (}Pages 14 to 17)

	Page 18		Page 20
1	A. And then I became the supervisor of the permit	1	BY MR. BONEBRAKE:
2	section, which in addition to the construction permit unit	2	Q. I won't ask you to go through all the
3	also supervised the operating permit unit, which issues the	3	documents in the in the binders, but let me ask you
4	Title V permits for Missouri. At the time, there was also an	4	generally: How did you go about looking at the paper in
5	initial review unit in the permit section that I also	5	The – in the binders to refresh your recollection, I think
6	supervised that handled completeness checks and I did that	6	is how you put it?
7	starting in 2004, May, I believe, of 2004.	7	A. I – I just flipped through the tabs. One of
8	Q. Okay. So as I understand it, there is a –	8	the binders has copies of some of the letters that were
9	well, let's strike that. Let's complete the chronology.	9	detailed in the Exhibit 1, subpoena document, to try and
10	A. Uh-huh.	10	refresh my memory of what the the action was. In
11	Q. How long were you the manager of the permit	11	addition, I also reviewed some internal documents to kind of
12	section?	12	refresh my memory on permit - permitting processes.
13	A. Until July 2011 when then program director Jim	13	Q. And you're referring to the – the specific
14	Cavanaugh retired and I became the interim program director	14	decisions that are reflected in topic two -
15	and then accepted the position permanently in September of	15	A. Right, that's correct.
16	2011.	16	Q. – of the – of the writer?
17	Q. And during the time period when you have been	17	A. Yes, that's correct.
18	at MDNR, that is from 1999 to the present –	18	Q. Did you review any documents not contained in
19	A. Yes.	19	either of these two binders in preparation for your
20	Q has there been a construction permit unit	20	deposition today?
21	within a permit section within air programs?	21	A. Yes, I did.
22	A. Yes.	22	Q. And what documents were those?
23	Q. And have the duties of the construction permit	23	A. The main document I reviewed are construction
24	unit consistently during that period of time included the	24	permit guidance. It's available on our Web site. In
25	determination of the applicability of construction permit	25	addition, I have a hard copy binder in my office that I
	Page 19		Domo. 01
	1490 19		Page 21
1	5	1	,
1 2	requirements and the issuance of construction permits? A. Yes.	1 2	reviewed to refamiliarize myself with the permit process, since I've been out of that directly for two years, so I also
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6 (Pages 18 to 21)

Case No. EF-2024-0021 Schedule CME-r8, Page 6 of 136

	Page 22		Page 24
1	A. Yes.	1	preparation for your deposition today?
2	Q. – the words you used?	2	A. Yes, I did. I consulted with my permit
3	A. Yes, our network drive.	3	section chief Kendall {Hale and reviewed certain permit
4	Q. That's an internal MDNR network drive?	4	discussions and talked with him about some of the topics that
5	A. That's correct.	5	I expected to be asked about today.
6	Q. And is that network drive organized by topic?	6	Q. What is $Mr - Mr$. Hale's position?
7	A. No. It is organized by user. We have a	7	A. He is the permit section chief in the air
8	network drive, specifically the permit section has its own	8	pollution control program.
9	folder. Each permit writer has a folder in that network	9	Q. And how long has he held that position?
10	drive. The permit writer, he or she, chooses to keep items	10	A. Since I became program director, so two years.
11	on there. I reviewed a couple documents on on those just	11	Q. And he reports directly to you?
12	as reference. They were .pdf documents that were obtained	12	A. Yes, he does.
13	off the web or either off EPA's database.	13	Q. And did he have a position at MDNR prior to
14	Q. And does US EPA Region 7 have access to the –	14	that?
15	the MDNR internal drive?	15	A. Yes, he was the construction unit permit chief
16	A. No.	16	when I was the permit section chief.
17	Q. You mentioned a EPA presentation on routine.	17	Q. Sounds like he's following you up the ladder.
18	A. Yes.	18	A. He did follow me. I hired him. Very wisely
19	Q. Do you recall the approximate date of that	19	so.
20	presentation?	20	Q. So when did he start with MDNR?
21	A. No. It would have been I was still permit	21	A. He started about six months prior to me, I
22	section chief, so it would have been sometime probably 2009,	22	believe, so it would have been October of 1998.
23	2010 time frame.	23	Q. Are you familiar with the – the claims at
24	Q. And was that a PowerPoint presentation?	24	issue in the lawsuit that brings us here today?
25	A. Yes.	25	A. Yes.
	Page 23		Page 25
	5		, rage 25
1	Q. And were you present personally for that	1	Q. And how did you become familiar with those
1 2		1 2	,
	Q. And were you present personally for that		Q. And how did you become familiar with those claims?A. When the initial action was taken, I was privy
2	Q. And were you present personally for that presentation?	2	Q. And how did you become familiar with those claims?
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7 (Pages 22 to 25)

Case No. EF-2024-0021 Schedule CME-r8, Page 7 of 136

Jefferson City, MO

	Page 26	Page 2	28
1	A. I did not.	1 Q. And was that response oral or in writing?	
2	Q. And you're aware that the United States has	2 A. I am not sure of that. That response did not	
3	asserted NSR claims against Ameren Missouri?	 a rain not sure of that. That response call not come directly from me. I don't know if that was written or 	
4	A. Yes, I am.	4 oral.	
5	Q. And so you first became aware of the NSR	5 Q. Do you know who provided that response for	
6	claims against Ameren Missouri when you reviewed the Notice	6 MDNR?	
7	of Violation; is that correct?		
8		 A. It would have been our general counsel's office and with the consult – consulting the Attorney 	
9		 onice and with the consult consulting the Attorney General's office. 	
10	Q. Do you know how much of the coal-fired		
11	electric generating industry has received Notices of Violation asserting NSR claims?	C F F J	n
12	A. Nationwide?		
13		The opposition of the specific	
14		······································	
	A. Or in Missouri?	Q. Denote tites tesponee deemining to Joint die	
15	Q. Nationwide.	······	
16	A. No, do I not know nationwide.	······································	
17	Q. What about with respect to Missouri?		
18	A. I do know there is at least one other issue in	18 Q. And are you aware of whether the state of	
19	Missouri with another one of our coal-fired plants,	19 Missouri and the United States have entered into a joint 20 prosecution agreement related to this lawsuit?	
20	Associated Electric.	F	
21	Q. And has that company received a Notice of	A. Yes, we have.	
22	Violation as well?	22 Q. And do you have an understanding as to whethe	r
23	A. Yes. That's my understanding.	23 or not that agreement is currently in effect?	
24	Q. And has a lawsuit been filed against that	A. Yes, it is in effect.	
25	company?	25 Q. Are you aware of any state – setting aside	
		_	
	Page 27	, Page 2	29
1	Page 27 A. I'm not sure if a lawsuit has been filed or if	Page 2 Missouri – that has objected to US EPA's NSR Enforcement	
1 2	-	`	
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2	A. I'm not sure if a lawsuit has been filed or if it was just a Notice of Violation. I'm not involved in that	 Missouri – that has objected to US EPA's NSR Enforcemen Initiative against power generators? 	
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8 (Pages 26 to 29)

Case No. EF-2024-0021 Schedule CME-r8, Page 8 of 136

	Page 30		Page 32
1	Nebraska. We have conference calls occasionally. We used to	1	Tippett Mosby. And then Tom Wilson for a period of six
2	meet on a regular basis before travel restrictions due to	2	months. And then Roger Randolph. And that goes back to
3	budgets. We would meet one or two times a year to discuss	3	1994. I didn't go back further than that.
4	permitting and Enforcement Initiatives. And so we do have	4	Q. Okay. All right. So as I understand it,
5	correspondence with the other states.	5	then, the position with issuance authority for PSD permits is
б	Q. We were talking earlier about permit engineers	6	the director?
7	within the construction permit unit.	7	A. Program director, yes, that's correct.
8	A. Yes.	8	Q. What about with respect to minor new source
9	Q. While you have been at MDNR, has there been	9	review permits, that is construction permits for minor
10	any differentiation among the - or organization among the	10	sources?
11	engineers that would divide permit engineers on the one hand	11	A. Right. All permits are assigned by the
12	with respect to major sources, for instance, and minor	12	program director, whether it's PSD, minor, or what we call
13	sources on the other?	13	our De Minimus permits.
14	A. Depending on workload you mean.	14	Q. And from 1999 to the present, who within the
15	Q. Or from an organizational perspective.	15	air program has had the authority to sign non-applicability
16	A. Not a specific separation of duties. By	16	determination letters?
17	nature of the PSD permitting process, the senior engineers	17	A. The applicability determination, or we refer
18	tend to obtain the PSD permit projects. We have different	18	them as no permit required letters are signed generally by
19	engineers in our section by classification. They're called	19	either the construction permit unit chief or the permit
20	Engineer Is, IIs, and IIIs. The Engineer IIIs require an	20	section chief. It depends on who was in the office and the
21	engineer professional license. Historically, the PSDs are	21	preference. The permit section chief from 1999 forward would
22	assigned to Engineer IIIs, if they are available for	22	be Randy Raymond until 2003, and then Refaat Mefrakis, that's
23	workload, but that's not always the case, so any of the	23	R-e-f-a-a-t M-e-f-r-a-k-i-s, for a period until May 2004.
24	permit engineers can assist on PSD projects.	24	And then I was the permit section chief from May 2004 until
25	Q. And you mentioned PSD permits were	25	July 2011, and then Kendall Hale from July of 2011 until
	Page 31		Page 33
1	Page 31	1	·
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2	historically assigned to Engineer IIIs? A. Yes.	2	present. Q. Okay. So from from 1999 to the present,
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9 (Pages 30 to 33)

Case No. EF-2024-0021 Schedule CME-r8, Page 9 of 136

Jefferson City, MO

	Page 34		Page 36
1	other places in 40 CFR 5221?	1	Q. And are definitions found in 10-6.020?
2	A. That's correct.	2	A. That's correct.
3	Q. And does MDNR implement the PSD program in	3	COURT REPORTER: I'm sorry, what was the
4	Missouri?	4	number?
5	A. Yes.	5	MR. BONEBRAKE: 10-6.020.
6	Q. And has it since at least 1990?	6	BY MR. BONEBRAKE:
7	A. That's correct.	7	Q. And those Missouri rules contain construction
8	Q. And does MDNR implement the PSD program in	8	permit requirements and applicability provisions for both
9	Missouri through state rules that US EPA approves?	9	major and minor sources?
10	A. That's correct.	10	A. That's correct.
11	Q. And does Missouri currently have construction	11	Q. And so they contain applicability requirements
12	permit rules, including PSD rules that are SIP approved by	12	for both PSD and minor NSR?
13	United States?	13	A. Yes.
14	A. Yes.	14	Q. By the way, I'll use the term major source
15	Q. And what does SIP approval mean from your	15	during the course of the deposition today. We probably
16	perspective?	16	should be on the same page with respect to what that means.
17	A. SIP approval is we provide our rules to EPA	17	A. Okay.
18	how we are going to implement the federal rules. In many	18	Q. So when you think of the term "major source,"
19	instances, we just adopt the federal rules by reference but	19	what does that mean to you?
20	we provide that to EPA and then they approve our regulations	20	A. A major source to an air permit person is a
21	into the State Implementation Plan for the State of Missouri.	21	air pollutant source that emits above what we consider the
22	Q. And then once those rules are adopted at the	22	major air thresholds. Again, it depends on the type of
23	state level and approved federally, they are implemented by	23	source, but it's generally 250 tons of pollutants or more.
24	MDNR?	24	Q. And is is PSD potentially applicable only
25	A. That's correct.	25	to major sources?
	Page 35		Page 37
1	2	1	`
1 2	Q. Including through the issuance of PSD and	1 2	A. To it is PSD is applicable by the
	Q. Including through the issuance of PSD and other construction permits and issuance of applicability		A. To – it is – PSD is applicable by the project, so it does not matter the source that it's applying.
2	Q. Including through the issuance of PSD and	2	A. To it is PSD is applicable by the
2 3	 Q. Including through the issuance of PSD and other construction permits and issuance of applicability determinations by DNR? A. Yes. 	2 3	 A. To – it is – PSD is applicable by the project, so it does not matter the source that it's applying. It depends on what the project is, so.
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10 (Pages 34 to 37)

Case No. EF-2024-0021 Schedule CME-r8, Page 10 of 136

	Page 38		Page 40
1	A. Yes, that's correct.	1	if we are reviewing EPA documents, just wanting to get EPA's
2	Q. Now we've talked a little bit about MDNR's	2	feedback on what our recommended determination is. We have
3	role with respect to construction permit program in Missouri,	3	regular coordination calls with EPA, especially in regards to
4	including PSD. Does US EPA have a role in that program?	4	permitting. I believe they still meet monthly via conference
5	A. Yes, they do.	5	call to discuss certain projects, any projects that we may
6	Q. What do you perceive to be US EPA's role?	6	need assistance with. It's a resource for us. EPA Region 7
7	A. I view US EPA's role as supporting of us,	7	is a resource for us and we utilize them in that manner.
8	MDNR, in any permit or even any action we undertake in the	8	Q. These coordination calls, and I think those
9	program. They are a partner in implementing the Clean Air	9	those were the words that you used.
10	Act in the state of Missouri.	10	A. Yes.
11	Q. And does MDNR send copies of PSD permits to US	11	Q. Those are undertaken on a monthly basis?
12	EPA?	12	A. Yes.
13	A. Yes.	13	Q. And and for how long have those been
14	Q. Are those sent to US EPA in draft form before	14	calls been going on a monthly basis?
15	issued?	15	A. As far as I've been with the agency, there
16	A. We send them the draft permit when we issue	16	have been coordination calls. And as long as I was permit
17	the draft permit for public notice. In some instances we	17	section chief, we coordinated mostly on a monthly basis. It
18	share it with them ahead of time. But we are required to	18	depends on the EPA Region 7 assigns one staff person for
19	share the draft on public notice with them.	19	the state of Missouri, for example, as our permit coordinator
20	Q. What about with respect to minor construction	20	and it really depends on the permit coordinator and how
21	permits? Are those permits provided to US EPA when issued by	21 22	frequently he or she wanted to talk with us and how
22	MDNR?	22	frequently we needed to talk with them. But in recent years,
23 24	A. Not all the time, no.Q. What would be the circumstances in which such	23	at least in the last seven or eight years, it's been monthly.
24 25	Q. What would be the circumstances in which such permits would be provided to US EPA?	24	Q. And are these sessions by telephone or in-person?
20	permits would be provided to US EPA?	25	in-person?
	Page 39		Dago 41
			Page 41
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11 (Pages 38 to 41)

Case No. EF-2024-0021 Schedule CME-r8, Page 11 of 136

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	Page 42		Page 44
1	send an e-mail to EPA and ask questions. Then he or she	1	their region and we call it review not audit.
2	would if they did not know the answer, would research it	2	Q. Okay. So I'll use that term. And do you know
3	and get back with us.	3	whether MDNR's construction permit program has been reviewed
4	Q. Is is there an agenda that gets put	4	by Region 7 every every four years?
5	together for these monthly calls?	5	A. We just completed one in 2012. EPA chose in
6	A. Sometimes. Again, it depends on the	6	2008 to do a review of two of our local agencies, which we
7	coordinator. EPA led those calls and sometimes they would	7	had at the time St. Louis County and St. Louis City, and
8	send an agenda and sometimes it would be a real informal	8	therefore did not do a formal review of the MDNR program in
9	discussion format.	9	2008, but yes, there was one in 2004. Then I think 2001. So
10	Q. Were any minutes kept of these sessions?	10	approximately every four years, so.
11	A. Not formally. Sometimes notes were taken, but	11	Q. And do you know when the review started?
12	not detailed. A lot of it was just discussion, how to handle	12	A. The reviews?
13	things and updates on certain projects that EPA was	13	Q. The first of the reviews.
14	interested or also EPA would share with us updates on	14	A. The first of the reviews? I'm not sure how
15	different states' projects that may have come to our	15	long I assume they've gone back every four years. I don't
16	attention.	16	know what EPA's requirement on that was. I'm aware of the
17	Q. And do you know if if a regular agenda item	17	ones from 2000 on.
18	in these sessions would be MDNR's PSD permitting, including	18	Q. And has it been the typical review process by
19	applicability determinations?	19	US EPA to look at PSD permits issued by MDNR and permit
20	A. When you say regular agenda item, we wouldn't	20	applicability PSD permit applicability determinations made
21	list it that way. It's more project specific. We would	21	by MDNR?
22	update them on any PSD projects in-house, the status as they	22	A. The review itself does not encompass the PSD
23	would need to be aware when they were receiving the draft	23	permits because EPA reviews those as they're processed. They
24	permits so they could prepare staff time to review the permit	24	see those draft permits, they see the final permits, and they
25	and the application. If we had any determination requests	25	also review those documents when they're attached to the
-	Page 43		Page 45
1	that we needed assistance with, those would be listed on the	1	Title V permits that they review. The review encompasses
2	informal agenda as well as topics of discussion.	2	more our minor source permitting program and so any
3	Q. So for instance if MDNR was looking for	3	determinations we would have made no permit required, yes,
4	assistance on whether or not a particular project would	4	they they would cover those possibly in the review.
5	trigger PSD, that would be an item you would expect to be a	5	Q. Would it would it be your expectation,
6 7	part of these regular sessions?	6	then, that every four years when US EPA Region 7 does the
7	A. Yes.	7	review, that it's going to be looking at the no permit
8 9	Q. In addition to these coordinating sessions,	8	determination letters issued by MDNR in the in the
-	are there other means by which MDNR provides to US EPA		proceeding four years?
10	information about how it's implementing the construction	10	A. Well, just due to staff time and volume of
11 12	permitting program in Missouri?	11	material, not every permit determination is reviewed. And
	A. I mean, regular coordination in conversations,	12	EPA has changed how they do the reviews in past years. In
13 14	we also, you know, participate in meetings with EPA at their moust and also the program myiou that EPA door. I'm pat	13	2004, for example, they did send staff to our office to look
14 15	request and also the program review that EPA does. I'm not	14 15	through various files in our file room and review random
15 16	sure if that's what you're asking, but.		files, no permit required letters that we issued. They did
10 17	Q. The program review, is that – is that an audit function?	16	not review all of them.
17 18		17	We issue, depending on the year, 500 to 900
18 19	A. Yes.	18 19	permit actions and that includes everything we do in the
19 20	Q. Okay.		permit section, no permit determin determination letters,
20 21	A. Yes.Q. And how often does US EPA audit Missoun's	20 21	minor permits, De Minimus permits, PSD permits, letters to
21 22	-	21	sources. So they can't review everything we do, obviously,
22 23	construction permitting program? A. I believe they are required to review –	22	so they do random checks.
23 24	Region 7 in particular is required to review each state once	23	They did that in 2004 and I believe in 2001. 2012, they did not do a detailed file review. EPA, it's my
24 25	every four years. And there are three or four states in	24	understanding, nationally has changed the way they do program
			anderstanding, nationary has endinged the way they do program
		1	

12 (Pages 42 to 45)

Case No. EF-2024-0021 Schedule CME-r8, Page 12 of 136

Jefferson City, MO

	Page 46		Page 48
1	reviews. And they're no longer needing to do end-of-file	1	comes in to permit issuance?
2	reviews. They come in and meet with the program and ask	2	A. Uh-huh. Any permit application?
3	questions and go through. I don't believe in 2012 they	3	Q. PSD is what I'm interested in.
4	looked at any specific no permit required letters.	4	A. PSD. Well, once an application is received
5	Q. Of those 500 to 900 permit actions, what	5	and it is identified as a PSD, prior to that, most I
6	portion of that would you say on average would be no permit	6	should say most PSD projects we have had some preapplication
7	required letters?	7	meeting with the applicant because this is typically a major
8	A. Oh, I did not look at that, but we issue, and	8	project. So the first time we're hearing of it is not at the
9	this is very approximate, probably a hundred no permit	9	application process itself.
10	required letters a year. Again, it's very dependent on the	10	But once the application comes in, it is
11	year and the number of permits we issue and the facilities	11	assigned to a permit reviewer and the application is reviewed
12	asking us for the determinations, so.	12	for completeness. A PSD application would have multiple
13	Q. And – and does US EPA provide feedback to	13	pieces, most likely an air dispersion modeling analysis as
14	MDNR in connection with the review process about how MDNR is	14	well which is done by our office, review of the BACT
15	doing in implementing construction permitting in Missouri?	15	analysis, the Best Available Control Technology analysis.
16	A. Yes.	16	And is that?
17	Q. And has US EPA ever indicated that MDNR was	17	Q. That's a good overview, thank you.
18	not properly implementing the PSD program?	18	A. Okay.
19	A. Again, that wouldn't be part of the program	19	MR. BONEBRAKE: Let me go ahead and mark for
20	review because they would have commented on the PSD permits	20	identification, David, I think we're up to Exhibit No. 5.
21	in the process.	21	MR. LORING: Yes.
22	Q. Uh-huh.	22	(Exhibit No. 5 was marked for identification.)
23	A. There are always recommendations in the review	23	BY MR. BONEBRAKE:
24	on how to do things better or more efficiently. My	24	Q. Okay. We're going to show you an exhibit
25	recollection of the recent reviews is there's not been	25	that's been marked for identification as No. 5 and the front
	Page 47		Page 49
1	Page 47 anything specific on the PSD program itself.	1	Page 49
1 2	2	1 2	, Ū
	anything specific on the PSD program itself.		page is labeled Construction Permit Review Procedure Manual.
2	anything specific on the PSD program itself. Q. And so do – do you have any recollection of	2	page is labeled Construction Permit Review Procedure Manual. It starts with Bates-stamp No. AMO 1019521-MDNR and runs
2 3	anything specific on the PSD program itself. Q. And so do – do you have any recollection of US EPA ever raising a concern with MDNR about how MDNR was	2 3	page is labeled Construction Permit Review Procedure Manual. It starts with Bates-stamp No. AMO 1019521-MDNR and runs through 578-MDNR. And I was going to mention to you as well
2 3 4	anything specific on the PSD program itself. Q. And so do – do you have any recollection of US EPA ever raising a concern with MDNR about how MDNR was determining PSD applicability?	2 3 4	page is labeled Construction Permit Review Procedure Manual. It starts with Bates-stamp No. AMO 1019521-MDNR and runs through 578-MDNR. And I was going to mention to you as well for clarity that you'll see the Bates stamp number, there's
2 3 4 5	anything specific on the PSD program itself. Q. And so do – do you have any recollection of US EPA ever raising a concern with MDNR about how MDNR was determining PSD applicability? A. Id say there's always comments and – and	2 3 4 5	page is labeled Construction Permit Review Procedure Manual. It starts with Bates-stamp No. AMO 1019521-MDNR and runs through 578-MDNR. And I was going to mention to you as well for clarity that you'll see the Bates stamp number, there's two of the numbers on the lower right of this document and
2 3 4 5 6	anything specific on the PSD program itself. Q. And so do – do you have any recollection of US EPA ever raising a concern with MDNR about how MDNR was determining PSD applicability? A. Id say there's always comments and – and different interpretations, so through the PSD permitting	2 3 4 5 6	page is labeled Construction Permit Review Procedure Manual. It starts with Bates-stamp No. AMO 1019521-MDNR and runs through 578-MDNR. And I was going to mention to you as well for clarity that you'll see the Bates stamp number, there's two of the numbers on the lower right of this document and the MDNR prefix and followed by a number is an indication
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13 (Pages 46 to 49)

Alderson Reporting Company 1-800-FOR-DEPO

Case No. EF-2024-0021 Schedule CME-r8, Page 13 of 136

	Page 50		Page 52
1	saved it, so there were many iterations of this document.	1	A. Uh-huh.
2	Some making minor changes and some maybe not making any	2	Q so would your thought be that this
3	changes, but yes.	3	particular version had not been posted to MDNR's Web site?
4	Q. So the manual has been kind of a living	4	A. That's correct.
5	document that's been updated over time; is that right?	5	Q. Nonetheless, would this have been a document
6	A. Yes, it it's one characterization of	6	that would have been available to permit engineers and
7	this is it's been draft for awhile. When we have staff time,	7	construction permit managers within MDNR?
8	we work on it to update it. Unfortunately there wasn't a lot	8	A. Yes.
9	of staff time at some point to update it, so this was the	9	Q. And was it made available to them to help
10	probably preliminary version of the documents that we now	10	guide their decisions regarding construction permitting in
11	maintain on our web and the documents that I mentioned I	11	Missouri?
12	reviewed earlier, so yes.	12	A. Yes, it's one tool, yes.
13	Q. That was going to be a question that I asked.	13	Q. So this was a an official compilation to
14	A. Yes.	14	help guide permit writers and those making permitting
15	Q. So you reviewed in preparation for the	15	decisions?
16	deposition today the current version of this manual?	16	A. Yes.
17	A. Yes.	17	Q. And to the extent then publicly available,
18	Q. And that current version is located on MDNR's	18	would you expect sources in Missouri to consult and rely upon
19	Web site?	19	the contents of this manual?
20	A. That's correct.	20	A. This particular manual?
21	Q. And why is that document on MDNR's Web site?	21	Q. Well, once the version was posted and publicly
22	A. Why is it on the Web site?	22	available.
23	Q. Correct.	23	A. Yes, yes, if it's now that it is available
24	A. Well, we have found over the years the more	24	on the Web, we point that location out to applicants when
25	information we provide on - on how we do things and how we	25	they ask us and it provides guidance to them.
	Page 51		Page 53
1	Page 51 interpret it, if the applicants have that prior to submitting	1	Page 53 Q. And even before that, MDNR wanted the manual
1 2	2	1 2	· ·
	interpret it, if the applicants have that prior to submitting		Q. And even before that, MDNR wanted the manual
2	interpret it, if the applicants have that prior to submitting the application, it it does assist in more complete	2	Q. And even before that, MDNR wanted the manual to be correct because construction permit engineers and
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14 (Pages 50 to 53)

Case No. EF-2024-0021 Schedule CME-r8, Page 14 of 136

	Jefferson	5 /	
	Page 54		Page 56
1	issued in 184 days, it's just if we take longer than that	1	prior to submittal of the application, it's very possible to
2	statutory time frame, we cannot charge fees and that is by	2	get close to that 184 days because we're only asking for
3	our state reg and our state statute.	3	clarification on the BACT analysis, for example, there's
4	Now, the caveat to that time frame is that	4	usually additional questions on that, additional
5	does not include days that we have put the project on hold	5	documentation needed. So again, I would say our goal is
б	for various reasons. The main reason is asking for more	6	is close to that six months as possible, but realistically,
7	information from the applicant. If the application comes in	7	less than a year is what I share with my upper management
8	and is not complete, we ask for more information and that	8	would be our goal.
9	time does not count towards the overall processing time.	9	BY MR. BONEBRAKE:
10	Q. And how often does an application come	10	Q. Okay.
11	incomplete where MDNR needs to ask for follow-up to start the	11	A. But it's very dependent on the applicant as
12	clock?	12	well, so that's out of our control.
13	A. For major?	13	Q. Is it is it true that a PSD applicant must
14	Q. For PSD.	14	wait for the issuance of the PSD permit before they can
15	A. For PSD permits, I would say almost a hundred	15	commence construction of the project at issue in the PSD
16	percent of the time.	16	permit?
17	Q. So is it is it fair to say, then, that PSD	17	A. That's correct.
18	permits are virtually never issued in 184 days of initial	18	Q. And if they commence construction before
19	permit application submission?	19	issuance of the PSD permit, are they in violation of the PSD
20	A. That I believe we've issued one in my	20	requirements?
21	tenure within 148 days, so.	21	A. Yes, that is a violation.
22	Q. And do you have a sense of the time required	22	Q. And I think you mentioned the term BACT
23	to pull together a PSD permit application?	23	before, which is B-A-C-T?
24	A. It would depend on the project because it's	24	A. Yes.
25	very case by case. There are I hate to use the word	25	Q. And is BACT an emission limitation?
	Page 55		Page 57
1	simple, but there are simple PSD permit applications, but	1	Page 57 A. It the BACT is actually an analysis, which
2	simple, but there are simple PSD permit applications, but then there are also more in-depth. For example, if it's for	2	A. It the BACT is actually an analysis, which is part of the requirement of the PSD application. The
	simple, but there are simple PSD permit applications, but then there are also more in-depth. For example, if it's for a brand new facility, Met-Chem, for example, that application	2 3	A. It – the BACT is actually an analysis, which is part of the requirement of the PSD application. The determination of BACT is typically the control equipment. It
2 3 4	simple, but there are simple PSD permit applications, but then there are also more in-depth. For example, if it's for a brand new facility, Met-Chem, for example, that application would be quite extensive.	2 3 4	A. It – the BACT is actually an analysis, which is part of the requirement of the PSD application. The determination of BACT is typically the control equipment. It can turn into an emission requirement, it can turn into a
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15 (Pages 54 to 57)

Case No. EF-2024-0021 Schedule CME-r8, Page 15 of 136
Page 58		Page 60
technology be installed at the source and operational for the	1	type of letter is indicating that there is no construction
source to be in compliance with PSD requirements following	2	permit of any kind required for the project being reviewed;
issuance of the PSD construction permit?	3	is that correct?
A. If I'm understanding the question, yes. The	4	A. It would be a – based on the information
BACT analysis, again, is part of the PSD review. Then the	5	provided to us and our review, that it is our interpretation
requirements that the BACT analysis would put in place would	6	no construction permit is required, yes.
be part of the permit conditions of the PSD permit that the	7	Q. Okay. And no construction of any permit -
source would comply with.	8	including no PSD permit is required; is that correct?
Q. Okay. And just to make sure we have this	9	A. Yes.
correct on the record.	10	Q. I'd like to turn now to a new exhibit, I
A. Okay.	11	believe David we're at No. 6.
Q. In order for the source to commence operation		(Exhibit No. 6 was marked for identification.)
following the construction or modification at issue in the	13	BY MR. BONEBRAKE:
	14	Q. And we're showing you what's been marked for
in place and operational at that source before operation		identification as Exhibit No. 6, and this is a copy of the
commences; is that correct?	16	Missouri construction permitting rules, I believe with a
A. If they want to be in compliance with the		vintage looking at the lower left of the first page in 1996.
permit, yes.	18	A. Okay.
		Q. And do these look to you to be constructing
		permitting rules of Missouri of vintage 1996?
		A. It is a definition rule yes, it's our
		definition rule and I believe also our Construction Permit
		Rule 6060 it looks like is here, yes.
		Q. And when you use the term "definition rule,"
remember if boiler tubes were a specific piece of that or	25	do you mean 6.020?
	1	A. Yes.
that.	2	Q. And 6.060 is the actuality construction
Q. And - okay. Do you know if those PSD permits	3	permitting rule; is that correct?
you have in mind were related to new source construction as	4	A. That's correct.
opposed to changes at existing plants?	5	Q. Were MDNR's construction permitting rules
A. There would be both. We've issued green – if	6	substantially amended in the mid-1990s?
you will green-filled, it's a brand new plant power plant	7	MR. HANSON: Objection, vague and ambiguous.
construction, PSD permits, but we've also issued	8	THE WITNESS: Could you repeat the question?
modifications to existing power plants for PSD.	9	BY MR. BONEBRAKE:
MR. BONEBRAKE: We've been at it for about an	10	Q. Sure. Were there – were there significant
hour and a quarter, so why don't we take a short break, so	11	changes made by Missouri to the construction permitting rules
let's go off the record.	12	in the mid-1990s?
VIDEOGRAPHER: We're off the record at 9:46.	13	A. The specifics of the changes, I can't speak to
(A break was held.)	14	whether they were major or not. We would amend our rules
VIDEOGRAPHER: Okay. We are back on the	15	based on federal rules. In that time period you're
record after a short break. It's 10:02 a.m.	16	mentioning, there was most likely some changes based on the
BY MR. BONEBRAKE:		Clean Air Act amendments. So yes, there would have been
Q. Mrs. Moore, one clarifying question I wanted		changes at that time.
to ask related to a line of discussion that we had before	19	Q. Does does Exhibit 6 look to you to be the
break. We talked a little bit about no construction permit	20	form of rules that was in effect when you started with MDNR
	21	in 1999?
required letters?		
A. Yes.	22	A. It – what do you mean by the form? I mean,
A. Yes.Q. And just wanted to confirm that when MDNR	22 23	A. It – what do you mean by the form? I mean, the actual rule at the time, I mean, this is updated, the
A. Yes.	22	A. It – what do you mean by the form? I mean,
	 issuance of the PSD construction permit? A. If I'm understanding the question, yes. The BACT analysis, again, is part of the PSD review. Then the requirements that the BACT analysis would put in place would be part of the permit conditions of the PSD permit that the source would comply with. Q. Okay. And just to make sure we have this correct on the record. A. Okay. Q. In order for the source to commence operation following the construction or modification at issue in the PSD permit, the specified BACT-controlled technology must be in place and operational at that source before operation commences; is that correct? A. If they want to be in compliance with the permit, yes. Q. Okay. Has MDNR issued any PSD permits for boiler tube or turbine changes at existing coal-fired electric-generated plants? A. I didn't bring the list of PSD permits with me. I don't have that specifics. I mean, we've issued several PSD permits to coal-fired power plants and I don't remember if boiler tubes were a specific piece of that or Page 59 not, so I'd have to look at the permit in question to answer that. Q. And – okay. Do you know if those PSD permits you have in mind were related to new source construction as opposed to changes at existing plants? A. There would be both. We've issued green – if you will green-filled, it's a brand new plant – power plant construction, PSD permits, but we've also issued modifications to existing power plants for PSD. M.R. BONEBRAKE: We've been at it for about an hour and a quarter, so why don't we take a short break, so let's go off the record. WIDEOGRAPHER: We're off the record at 9:46. (A break was held.) WIDEOGRAPHER: We're off the record at 9:46. (A break was held.) 	issuance of the PSD construction permit? 3 A. If Tm understanding the question, yes. The 4 BACT analysis, again, is part of the PSD review. Then the 5 requirements that the BACT analysis would put in place would 6 be part of the permit conditions of the PSD permit that the 5 source would comply with. 8 Q. Okay. And just to make sure we have this 9 correct on the record. 10 A. Okay. 11 Q. In order for the source to commence operation 12 following the construction or modification at issue in the 13 PSD permit, the specified BACT-controlled technology must be 14 in place and operational at that source before operation 15 commences; is that correct? 16 A. If they want to be in compliance with the 17 permit, yes. 18 Q. Okay. Has MDNR issued any PSD permits for 19 boiler tube or turbine changes at existing coal-fired 20 electric-generated plants? 21 A. I didn't bring the list of PSD permits with 22 me. Idon't have that specifics. I mean, we've issued 23 several PSD permits to c

16 (Pages 58 to 61)

Case No. EF-2024-0021 Schedule CME-r8, Page 16 of 136

	Page 62		Page 64
1	may have been some changes. Without looking at the Missouri	1	prior to 2004, and then going back to the date of this rule
2	register, I don't know.	2	in in 1996, did MDNR's rules provide for explicitly
3	Q. Are you aware of any significant changes	3	provide for an actual-to-projected-actual emission test?
4	between '96 and '99 to the Missouri construction permitting	4	A. I don't think the rules specifically provided
5	rules?	5	for that. That was not our method of operation anyway at the
6	A. Not that I'm aware of.	6	time. That came about with the reform rules, the
7	Q. Okay. Are you familiar with what's sometimes	7	projected-actual-to-actual.
8	called the WEPCo rule?	8	Q. So to your knowledge, MDNR never adopted any
9	A. Yes.	9	elements of the 1992 WEPCo rule?
10	Q. And what is your understanding of the	10	A. I would have to review the rule to speak to
11	WEPCo rule?	11	that exactly, but I guess I would state in practice, we did
12	A. The WEPCo rule refers to a a case between	12	not apply the actual-to-actual WEPCo test.
13	EPA and the facility WEPCo, which I'm not going to it's a	13	Q. And are you aware of a statute in Missouri
14	Wisconsin utility, I believe, and it was a determination	14	that provides that Missouri's air rules should be no more
15	on there was several things in there on how	15	stringent than the federal rules?
16	WEPCo calculated emissions and also the use of routine	16	A. Yes.
17	maintenance. But there are there are several guidance	17	Q. And so do you know if MDNR perceived its 1996
18	documents in EPA's database on WEPCo.	18	rules to be no more stringent than the WEPCo rule?
19	Q. And and just for the record, it's	19	A. That that's my understanding. 643.05 makes
20	W-E-P-C-o. And you referred to the case between US EPA and	20	it that we cannot be more stringent, so yes, that would be
21	the entity WEPCo?	21	our practice.
22	A. Yes.	22	Q. So it would be MDNR's practice to interpret
23	Q. Are you aware of whether or not there was a US	23	and implement its rules in a in a way that would be no
24	EPA rule that grew out of from that case?	24	more stringent than the federal counterparts?
25	A. There were some guidance documents that came	25	A. That's correct.
	Page 63		
	rage 05		Page 65
1		1	,
1 2	out of that case and I believe some changes to EPA's rules	1	Q. If you could turn with me to Section 10-6.060, section 1.
	out of that case and I believe some changes to EPA's rules based on what happened there. I don't know if that was the		Q. If you could turn with me to Section 10-6.060, section 1.
2	out of that case and I believe some changes to EPA's rules based on what happened there. I don't know if that was the sole reason for EPA's rule changes.	2	Q. If you could turn with me to Section 10-6.060, section 1.
2 3	out of that case and I believe some changes to EPA's rules based on what happened there. I don't know if that was the	2 3	Q. If you could turn with me to Section 10-6.060,section 1.A. Do you have a page number?
2 3 4	out of that case and I believe some changes to EPA's rules based on what happened there. I don't know if that was the sole reason for EPA's rule changes. Q. Well, do you know if in 1992 US EPA adopted	2 3 4	 Q. If you could turn with me to Section 10-6.060, section 1. A. Do you have a page number? Q. I guess it's 21.
2 3 4 5	out of that case and I believe some changes to EPA's rules based on what happened there. I don't know if that was the sole reason for EPA's rule changes. Q. Well, do you know if in 1992 US EPA adopted revisions to its PSD rules that provided for an	2 3 4 5	 Q. If you could turn with me to Section 10-6.060, section 1. A. Do you have a page number? Q. I guess it's 21. A. Okay.
2 3 4 5 6	out of that case and I believe some changes to EPA's rules based on what happened there. I don't know if that was the sole reason for EPA's rule changes. Q. Well, do you know if in 1992 US EPA adopted revisions to its PSD rules that provided for an actual-to-projected-actual emission test?	2 3 4 5 6	 Q. If you could turn with me to Section 10-6.060, section 1. A. Do you have a page number? Q. I guess it's 21. A. Okay. Q. And is that section entitled applicability?
2 3 4 5 6 7	out of that case and I believe some changes to EPA's rules based on what happened there. I don't know if that was the sole reason for EPA's rule changes. Q. Well, do you know if in 1992 US EPA adopted revisions to its PSD rules that provided for an actual-to-projected-actual emission test? A. I don't know I can't speak to the date of	2 3 4 5 6 7	 Q. If you could turn with me to Section 10-6.060, section 1. A. Do you have a page number? Q. I guess it's 21. A. Okay. Q. And is that section entitled applicability? A. Yes.
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17 (Pages 62 to 65)

Case No. EF-2024-0021 Schedule CME-r8, Page 17 of 136

	Page 66		Page 68
1	correct?	1	that's used for purposes of defining - determining whether
2	MR. HANSON: Objection, lack of foundation,	2	or not a modification would be expected to occur?
3	document speaks for itself.	3	MR. HANSON: Same objection.
4	THE WITNESS: This this would be yes,	4	THE WITNESS: Eighteen is the definition of
5	the first place I would go if I was a source to look for	5	potential to emit, yes.
6	applicability of permitting.	6	BY MR. BONEBRAKE:
7	BY MR. BONEBRAKE:	7	Q. So would that be the definition that a permit
8	Q. And when you were a permit engineer and then a	8	engineer or permit manager at MDNR would use to determine
9	manager in the construction permitting section, did you look	9	whether a modification would be expected to occur that would
10	to the applicability section of the construction permitting	10	trigger a construction permit requirement?
11	rules as a starting place to determine whether or not a	11	A. It would be the definition we would use to
12	construction permit would be required?	12	define what the potential emissions of the source are. And
13	A. Yes.	13	that is one piece of the modification, yes.
14	Q. And if you could turn with me to the	14	Q. And when you say "one piece of the
15	definition section, which is 6.020 and the definition of	15	modification," what do you mean?
16	modifications, which is in section capital M, item number 9	16	A. Well, it says any physical change or change in
17	on page 11. And is this the definition of a modification	17	method of operation, so you need to determine that first and
18	that would trigger a construction permitting requirement	18	then go to the potential emissions. It's all tied together.
19	under the Missouri Construction Permitting Rules?	19	Q. Okay. So MDNR first needs to determine
20	A. Yes, if that term modification is used in the	20	whether or not there's a physical or operational change; is
21	6.060, that's correct.	21	that correct?
22	Q. And just to refresh your recollection, if we	22	A. Yes.
23	go back to page 21, section 1(C), I believe the first	23	Q. And and assuming the answer is yes, it then
24	sentence in that section begins, no owner or operator shall	24	would need to determine whether that physical or operational
25	commence construction or modification. Do you see that,	25	change would cause an increase in potential emissions; is
	Page 67		Page 69
1	Page 67	1	Page 69
1	ma'am?	1	that correct?
2	ma'am? A. Yes.	2	that correct? A. Yes.
2 3	ma'am? A. Yes. Q. So would it be correct, then, that for	2 3	that correct? A. Yes. Q. And those things must be true in order for
2 3 4	ma'am? A. Yes. Q. So would it be correct, then, that for purposes of that defining that term modification in	2 3 4	that correct? A. Yes. Q. And those things must be true in order for there to be a modification of an existing source that
2 3 4 5	ma'am? A. Yes. Q. So would it be correct, then, that for purposes of that defining that term modification in section 1(C), you would look to the definition on M9 on page	2 3 4 5	that correct? A. Yes. Q. And those things must be true in order for there to be a modification of an existing source that requires a construction permit. Is that also true?
2 3 4 5 6	 ma'am? A. Yes. Q. So would it be correct, then, that for purposes of that – defining that term modification in section 1(C), you would look to the definition on M9 on page 11? 	2 3 4 5 6	that correct? A. Yes. Q. And those things must be true in order for there to be a modification of an existing source that requires a construction permit. Is that also true? MR. HANSON: Objection, the document speaks
2 3 4 5 6 7	ma'am? A. Yes. Q. So would it be correct, then, that for purposes of that – defining that term modification in section 1(C), you would look to the definition on M9 on page 11? MR. HANSON: Objection, the document speaks	2 3 4 5 6 7	that correct? A. Yes. Q. And those things must be true in order for there to be a modification of an existing source that requires a construction permit. Is that also true? MR. HANSON: Objection, the document speaks for itself.
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2 3 4 5 6 7 8 9 10	ma'am? A. Yes. Q. So would it be correct, then, that for purposes of that – defining that term modification in section 1(C), you would look to the definition on M9 on page 11? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Yes. BY MR. BONEBRAKE:	2 3 4 5 6 7 8 9 10	that correct? A. Yes. Q. And those things must be true in order for there to be a modification of an existing source that requires a construction permit. Is that also true? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Let me read the definition of modification again. So yes. BY MR. BONEBRAKE:
2 3 4 5 7 8 9 10 11	ma'am? A. Yes. Q. So would it be correct, then, that for purposes of that – defining that term modification in section 1(C), you would look to the definition on M9 on page 11? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Yes. BY MR. BONEBRAKE: Q. And a modification as defined by the rules	2 3 4 5 6 7 8 9 10 11	that correct? A. Yes. Q. And those things must be true in order for there to be a modification of an existing source that requires a construction permit. Is that also true? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Let me read the definition of modification again. So yes. BY MR. BONEBRAKE: Q. And the term potential emit indicates that the
2 3 4 5 6 7 8 9 10 11 12	ma'am? A. Yes. Q. So would it be correct, then, that for purposes of that – defining that term modification in section 1(C), you would look to the definition on M9 on page 11? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Yes. BY MR. BONEBRAKE: Q. And a modification as defined by the rules provides as follows: Any physical change or change in method	2 3 4 5 6 7 8 9 10 11 12	that correct? A. Yes. Q. And those things must be true in order for there to be a modification of an existing source that requires a construction permit. Is that also true? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Let me read the definition of modification again. So yes. BY MR. BONEBRAKE: Q. And the term potential emit indicates that the potential emissions of the unit are the emissions operating
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 ma'am? A. Yes. Q. So would it be correct, then, that for purposes of that – defining that term modification in section 1(C), you would look to the definition on M9 on page 11? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Yes. BY MR. BONEBRAKE: Q. And a modification as defined by the rules provides as follows: Any physical change or change in method of operation of a source operation or tenant air pollution control equipment which would cause an increase in potential emissions of any air pollutant emitted by the source operation. Mow, are potential emissions also defined in the rule? MR. HANSON: Objection, same objection. BY MR. BONEBRAKE: Q. And I can give you a shortcut to page 13. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 that correct? A. Yes. Q. And those things must be true in order for there to be a modification of an existing source that requires a construction permit. Is that also true? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Let me read the definition of modification again. So yes. BY MR. BONEBRAKE: Q. And the term potential emit indicates that the potential emissions of the unit are the emissions operating at full capacity every hour of every day of year; is that correct? MR. HANSON: Same objection. THE WITNESS: Yes, the potential emissions is defined as continuous operation. BY MR. BONEBRAKE: Q. At maximum capacity? A. Yes. Q. And so the concept of changes in utilization are really irrelevant for that definition, right, because the definition assumes constant utilization at full capacity; is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 ma'am? A. Yes. Q. So would it be correct, then, that for purposes of that – defining that term modification in section 1(C), you would look to the definition on M9 on page 11? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Yes. BY MR. BONEBRAKE: Q. And a modification as defined by the rules provides as follows: Any physical change or change in method of operation of a source operation or tenant air pollution control equipment which would cause an increase in potential emissions of any air pollutant emitted by the source operation. MR. HANSON: Objection, same objection. BY MR. BONEBRAKE: Q. And I can give you a shortcut to page 13. A. I was going to say in 1996, it should. Q. Section P, 18. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 that correct? A. Yes. Q. And those things must be true in order for there to be a modification of an existing source that requires a construction permit. Is that also true? MR. HANSON: Objection, the document speaks for itself. THE WITNESS: Let me read the definition of modification again. So yes. BY MR. BONEBRAKE: Q. And the term potential emit indicates that the potential emissions of the unit are the emissions operating at full capacity every hour of every day of year, is that correct? MR. HANSON: Same objection. THE WITNESS: Yes, the potential emissions is defined as continuous operation. BY MR. BONEBRAKE: Q. At maximum capacity? A. Yes. Q. And so the concept of changes in utilization are really inelevant for that definition, right, because the

18 (Pages 66 to 69)

Case No. EF-2024-0021 Schedule CME-r8, Page 18 of 136

	Page 70		Page 72
1	THE WITNESS: Yeah, I'm not understanding the	1	Q. So under MDNR's construction permit rules to
2	question. The could you repeat that?	2	determine whether a modification would occur, was MDNR then
3	BY MR. BONEBRAKE:	3	looking to determine whether a proposed activity at an
4	Q. Sure. I think we talked about the fact that	4	existing source would change the potential to emit of that
5	the concept of potential emissions assumes utilization at	5	source?
6	full capacity every day, every hour, in a year, right?	6	MR. HANSON: Objection, lack of foundation.
7	A. Yes.	7	THE WITNESS: I'm not understanding the
8	Q. So if you're looking at changes in potential	8	direction of the question, if you could rephrase.
9	emissions, whether or not the facility would change its	9	BY MR. BONEBRAKE:
10	utilization, in fact, is irrelevant because the definition	10	Q. Okay. We'll try again.
11	assumes you're running all out all the time?	11	A. Okay.
12	MR. HANSON: Vague and ambiguous, lack of	12	Q. The definition of modification uses the words
13	foundation, objection.	13	which would cause an increase in potential emissions.
14	THE WITNESS: The - when we calculate	14	A. Right.
15	potential emissions, we need to calculate the potential based	15	Q. Right?
16	on the operation that's occurring.	16	A. Yes.
17	BY MR. BONEBRAKE:	17	Q. That suggests to me that when MDNR makes a
18	Q. Uh-huh.	18	determination of whether a modification would be expected to
19	A. So yes, the potential emissions of that	19	occur, it is looking at whether the physical or operational
20	particular project we will review. So if that project	20	change causes the potential emissions of the emission unit at
21	operated this certain way, that's the potential emission	21	issue to change. Is that your understanding as well?
22	calculations that we would review. So I'm not understand	22	A. I would phrase it as we are looking at any
23	understanding the semantics, I guess.	23	modification that is going to increase emissions. And the
24	Q. Well, when MDNR makes a determination of – of	24	source would be providing that information to us, that they
25	potential emissions, does it consider the source's actual	25	are going to change this equipment, change this method of
	Page 71		. Page 73
1	anticipated utilization or does it simply assume maximum	1	operation and in doing so, this is the change of emissions
2	utilization?	2	that we anticipate. That's how I would phrase that. I don't
3	A. We would calculate the maximum potential of –	3	know if that answered your question or not.
4	of the operation that is presented to us. I'm not	4	Q. Well, the definition of modification refers
5	understanding.	5	specifically to potential emissions; correct?
6	Q. Okay. Well, if the source – if the source	6	A. Yes.
7	wasn't willing to take a synthetic minor limitation	7	Q. So when we're looking at whether emissions are
8	A. Right.	8	going to change, as you put it, isn't the rule directing MDNR
9	Q you, in making a potential to emit	9	and sources to look at whether there's going to be a change
10	determination, you would not consider actual plant	10	in potential emissions?
11	utilization, you would assume maximum utilization every day	11	A. Yes, that's definition of modification does
12	of the year; right?	12	state potential emission.
13	A. Yeah.	13	Q. And so when MDNR made applicability
14	MR. HANSON: Objection, lack of foundation,	14	determinations under this rule, was it looking at changes in
15	vague and ambiguous.	15	potential emissions, if any, of an emission unit?
16	BY MR. BONEBRAKE:	16	MR. HANSON: Objection, lack of foundation.
17	Q. I'm sorry, what was your answer?	17	THE WITNESS: Based on the definition, we
18	A. Yes, I mean, the potential emissions is just	18	would look at the increase in potential emissions, yes.
19	that. It's the potential the maximum amount possible that	19	BY MR. BONEBRAKE:
20	they could emit with that equipment without any conditions.	20	Q. And is that consistent with your understanding
21	Q. And – and when we go back to the definition	21	of MDNR's actual applicability determination practice from
22	of the term modification, it talks about any physical change	22	the mid-1990s up until the reform rule changes which you
23 24	or change in method of operation and it goes on to say which	23	mentioned earlier were adopted?
	-		-
20	A. UIHIIII.	25	IVIN. FIAINSOIN. Objection, Vague and amolguous.
23 24 25	or change in method or operation and it goes on to say which would cause an increase in potential emissions. A. Uh-huh.	23 24 25	A. Right. MR. HANSON: Objection, vague and ambigu

19 (Pages 70 to 73)

Case No. EF-2024-0021 Schedule CME-r8, Page 19 of 136

	Page 74		Page 76
1	THE WITNESS: That would fit my understanding	1	the situations, but there are a lot of specifics that I may
2	of of what we did and that we would look at a project that	2	not be thinking of that that could. So it everything
3	was submitted to us as a modification and look at the	3	is case by case in our world.
4	increase in potential emissions, yes.	4	BY MR. BONEBRAKE:
5	BY MR. BONEBRAKE:	5	Q. Uh-huh. Well, can you think of any others
б	Q. Okay. So if there were a physical or	6	than those three?
7	operational change, but that physical or operational change	7	A. Well, what you state like I can think of if
8	would not be expected to change the emission unit's potential	8	you change the type of fuel, and I don't know if that fits in
9	to emit, there would be no modification	9	one of your categories.
10	MR. HANSON: Objection, lack of foundation.	10	Q. Emission rates was one of my categories.
11	BY MR. BONEBRAKE:	11	A. Yeah, so that would probably fall into that.
12	Q correct?	12	Q. Let me go back to the manual, which we had
13	A. I would it I would need to look at a	13	marked earlier as Exhibit No. 5. And if I could turn your
14	specific case for that, but in general, that would fit the	14	attention to page 20 of that manual, it's internal 20 of 53
15	definition of modification, yes. But it's hard to say that	15 16	page marking.
16 17	that would apply in every case without looking at a case by	17	A. Okay.O. And I think we determined earlier that this
18	case example. Q. I'll have a few for you.	18	was the August 7, 2000 revised version of this – of this
19	A. I'm sure you will.	19	manual; is that correct?
20	Q. And absent a modification, there's no	20	A. Yes. It appears to be the case.
21	construction permit requirement, I think we talked about that	21	Q. All right. And does figure 3, applicability
22	before, but that's correct as well; is it not?	22	flowchart, does that – does that provide an indication of
23	A. Yes.	23	how construction permit applicability is to be determined?
24	Q. Is it is it true that the potential	24	A. This is one version of many flowcharts created
25	emissions of a unit can change in only one of two ways;	25	to try and explain the applicability process in permitting,
	Page 75		, Page 77
1	either an increase in design production capacity or a change	1	yes.
2	in the emission rate?	2	Q. Okay. The first is the first step to find
3	A. The potential emissions of the entire	3	the existing installation potential emissions?
4	installation or just a	4	A. That's correct.
5	Q. Of the emission unit is where I'm focused.		
-		5	Q. And the installation, is that MDNR's version
6	A. Of the emission unit? There is one other	6	Q. And the installation, is that MDNR's version of the – the word "source?"
7	A. Of the emission unit? There is one other situation that would come to mind and we refer to that as a	6 7	Q. And the installation, is that MDNR's version of the – the word "source?"A. I don't know the definition of source, but the
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. Of the emission unit? There is one other situation that would come to mind and we refer to that as a removal of a bottleneck. So if you have a piece of equipment that has a maximum amount of design rate but is limited lower than their maximum design rate by a previous piece of equipment and then you remove that piece of equipment and so the bottleneck is gone, that could also increase potential emissions. Q. Okay. So those are the three scenarios in which the potential emissions of an emission unit could change? A. Those are the most common. Q. Okay. But otherwise, changes to an existing emission unit that do not eliminate a bottleneck, do not change emission rate and do not change production capacity, don't change the potential to emit of the emission unit, is that correct? 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. And the installation, is that MDNR's version of the – the word "source?" A. I don't know the definition of source, but the definition of installation for MDNR is the – it encompasses the entire plant, if you will. Q. So when we talked earlier about whether or not a facility was a major source, it would be – at MDNR, the question would be whether the installation was major; is that correct? A. Yes, our regs use the term installation. Q. So installation would include all emission units at a given facility? A. That's correct. Q. And then the second step in the applicability determination flowchart is to calculate the potential emissions of the project; is that correct? A. Yes. Q. And as referred to I think in this document is capital P small c?
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 A. Of the emission unit? There is one other situation that would come to mind and we refer to that as a removal of a bottleneck. So if you have a piece of equipment that has a maximum amount of design rate but is limited lower than their maximum design rate by a previous piece of equipment and then you remove that piece of equipment and so the bottleneck is gone, that could also increase potential emissions. Q. Okay. So those are the three scenarios in which the potential emissions of an emission unit could change? A. Those are the most common. Q. Okay. But otherwise, changes to an existing emission unit that do not eliminate a bottleneck, do not change emission rate and do not change production capacity, don't change the potential to emit of the emission unit; is that correct? MR. HANSON: Objection, compound, lack of foundation. 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 Q. And the installation, is that MDNR's version of the – the word "source?" A. I don't know the definition of source, but the definition of installation for MDNR is the – it encompasses the entire plant, if you will. Q. So when we talked earlier about whether or not a facility was a major source, it would be – at MDNR, the question would be whether the installation was major; is that correct? A. Yes, our regs use the term installation. Q. So installation would include all emission units at a given facility? A. That's correct. Q. And then the second step in the applicability determination flowchart is to calculate the potential emissions of the project; is that correct? A. Yes. Q. And as referred to I think in this document is capital P small c? A. Uh-huh.

20 (Pages 74 to 77)

Case No. EF-2024-0021 Schedule CME-r8, Page 20 of 136

	Dage 78		Page 80
	Page 78		
1	THE WITNESS: Yes.		emission unit, okay?
2	BY MR. BONEBRAKE:	2	A. Uh-huh.
3	Q. If you could turn with me to page 15 of the	3	Q. That project will not increase the potential
4	manual. And does section B on page 15 provide guidance as to	4	emissions of the emission unit in which it occurs, okay?
5	how to determine the potential emissions of a project?	5	A. Okay.
6	MR. HANSON: Objection, document speaks for	6	Q. In that scenario, is the potential emissions
7	itself.	7	of the project zero?
8	THE WITNESS: Yes, this section is entitled	8	MR. HANSON: Same objection.
9	potential of new construction or modification and gives a	9	THE WITNESS: I wouldn't have enough
10	description of potential emissions.	10	information to answer that conclusively because the
11	BY MR. BONEBRAKE:	11	project – it would depend if that project is just effecting
12	Q. And how does MDNR determine the potential	12	that emission unit or if that project is effecting the entire
13	emissions of a project?	13 14	installation. So I would need to look at the application as
14	A. Well, the application would detail the		a whole to see whether those potential emissions were coming
15	emission units of that project and the design rates of each	15	from and what units that effect it.
16	emission unit, and we would calculate the potential emissions	16	BY MR. BONEBRAKE:
17	based on what we are given as the emission units, the	17	Q. Okay. So let's assume that there is no impact
18	equipment that they are proposing to install. We would use	18	to other emission units with respect to that physical change
19 20	emission factors that either the source provided or the best	19	at one emission unit.
20	emission factors available to us to calculate the emissions,	20	A. Okay.
21	and then the potential would be the 8,760 hours of operation	21	Q. In that scenario, would the potential
22	per year.	22	emissions of the project be zero?
23	Q. So when MDNR is using the term "potential	23	MR. HANSON: Objection, lack of foundation,
24	emissions of a project," is it using that term as shorthand	24	calls for hypothetical.
25	for the concept of whether or not there are changes in the	25	THE WITNESS: Again, I – I don't think I have
	Page 79		Page 81
1	potential emissions of the emission unit as a result of the	1	enough specifics to answer that, so.
	-		
2	project?	2	BY MR. BONEBRAKE:
2 3	Project? A. I'm not understanding the question. I we	2	
	A. I'm not understanding the question. I – we		Q. What else – what else would you need?
3	A. I'm not understanding the question. I we would the potential emissions of the project presented to	3	Q. What else – what else would you need?
3 4	A. I'm not understanding the question. I – we would – the potential emissions of the project presented to us in an application, we would look at the equipment that	3 4	Q. What else – what else would you need?A. Well, could you repeat the example? I'm not –
3 4 5	A. I'm not understanding the question. I we would the potential emissions of the project presented to	3 4 5	 Q. What else – what else would you need? A. Well, could you repeat the example? I'm not – Q. Okay. So – I know these are –
3 4 5 6	 A. I'm not understanding the question. I we would the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing Q. Uh-huh. 	3 4 5 6	 Q. What else – what else would you need? A. Well, could you repeat the example? I'm not Q. Okay. So – I know these are – A. It's very hard without an application in front
3 4 5 6 7	 A. I'm not understanding the question. I we would the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing Q. Uh-huh. A calculate the potential emissions of those 	3 4 5 6 7	 Q. What else – what else would you need? A. Well, could you repeat the example? I'm not – Q. Okay. So – I know these are – A. It's very hard without an application in front of me to step through the process, and also I haven't written
3 4 5 6 7 8	 A. I'm not understanding the question. I we would the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing Q. Uh-huh. 	3 4 5 6 7 8	 Q. What else – what else would you need? A. Well, could you repeat the example? I'm not – Q. Okay. So – I know these are – A. It's very hard without an application in front of me to step through the process, and also I haven't written a permit in 12 years, so.
3 4 5 6 7 8 9	 A. I'm not understanding the question. I – we would – the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing – Q. Uh-huh. A. – calculate the potential emissions of those pieces of equipment. Q. Calculate the potential emissions of those 	3 4 5 6 7 8 9	 Q. What else – what else would you need? A. Well, could you repeat the example? I'm not – Q. Okay. So – I know these are – A. It's very hard without an application in front of me to step through the process, and also I haven't written a permit in 12 years, so.
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3 4 5 6 7 8 9 10 11	 A. I'm not understanding the question. I – we would – the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing – Q. Uh-huh. A. – calculate the potential emissions of those pieces of equipment. Q. Calculate the potential emissions of those pieces of equipment? A. Yes. 	3 4 5 6 7 8 9 10 11	 Q. What else – what else would you need? A. Well, could you repeat the example? I'm not – Q. Okay. So – I know these are – A. It's very hard without an application in front of me to step through the process, and also I haven't written a permit in 12 years, so. Q. Right. And again, I'm asking for MDNR's position – A. Right, right.
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3 4 5 6 7 8 9 10 11 12 13 14	 A. I'm not understanding the question. I – we would – the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing – Q. Uh-huh. A. – calculate the potential emissions of those pieces of equipment. Q. Calculate the potential emissions of those pieces of equipment? A. Yes. Q. Okay. So if the project presented to MDNR did not impact the potential emissions of an existing emission unit, would there be zero potential emissions from the 	3 4 5 6 7 8 9 10 11 12 13 14	 Q. What else – what else would you need? A. Well, could you repeat the example? Im not – Q. Okay. So – I know these are – A. It's very hard without an application in front of me to step through the process, and also I haven't written a permit in 12 years, so. Q. Right. And again, I'm asking for MDNR's position – A. Right, right. Q. – because this is a 30(b)(6).
3 4 5 7 8 9 10 11 12 13 14 15 16	 A. I'm not understanding the question. I – we would – the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing – Q. Uh-huh. A. – calculate the potential emissions of those pieces of equipment. Q. Calculate the potential emissions of those pieces of equipment? A. Yes. Q. Okay. So if the project presented to MDNR did not impact the potential emissions of an existing emission unit, would there be zero potential emissions from the project? 	3 4 5 6 7 8 9 10 11 12 13 14 15	 Q. What else – what else would you need? A. Well, could you repeat the example? Im not – Q. Okay. So – I know these are – A. It's very hard without an application in front of me to step through the process, and also I haven't written a permit in 12 years, so. Q. Right. And again, I'm asking for MDNR's position – A. Right, right. Q. – because this is a 30(b)(6). A. Yes, I know. Q. We have an existing emission unit at a major source.
3 4 5 6 7 8 9 10 11 12 13 14 15	 A. I'm not understanding the question. I – we would – the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing – Q. Uh-huh. A. – calculate the potential emissions of those pieces of equipment. Q. Calculate the potential emissions of those pieces of equipment? A. Yes. Q. Okay. So if the project presented to MDNR did not impact the potential emissions of an existing emission unit, would there be zero potential emissions from the project? 	3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. What else – what else would you need? A. Well, could you repeat the example? Im not – Q. Okay. So – I know these are – A. It's very hard without an application in front of me to step through the process, and also I haven't written a permit in 12 years, so. Q. Right. And again, I'm asking for MDNR's position – A. Right, right. Q. – because this is a 30(b)(6). A. Yes, I know. Q. We have an existing emission unit at a major source. A. Okay.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. I'm not understanding the question. I – we would – the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing – Q. Uh-huh. A. – calculate the potential emissions of those pieces of equipment. Q. Calculate the potential emissions of those pieces of equipment? A. Yes. Q. Okay. So if the project presented to MDNR did not impact the potential emissions of an existing emission unit, would there be zero potential emissions from the project? MR. HANSON: Objection, lack of foundation, vague and ambiguous. THE WITNESS: I would have to ask for a – could you reclarify that? BY MR. BONEBRAKE: Q. Sure. Let me – let me take it in pieces. 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. What else – what else would you need? A. Well, could you repeat the example? Im not – Q. Okay. So – I know these are – A. It's very hard without an application in front of me to step through the process, and also I haven't written a permit in 12 years, so. Q. Right. And again, I'm asking for MDNR's position – A. Right, right. Q. – because this is a 30(b)(6). A. Yes, I know. Q. We have an existing emission unit at a major source. A. Okay. Q. The source proposes a physical change at the existing emission unit, okay? A. Okay. Q. That physical change would not change the potential to emit of the emission unit.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. I'm not understanding the question. I – we would – the potential emissions of the project presented to us in an application, we would look at the equipment that they are either modifying or installing – Q. Uh-huh. A. – calculate the potential emissions of those pieces of equipment. Q. Calculate the potential emissions of those pieces of equipment? A. Yes. Q. Okay. So if the project presented to MDNR did not impact the potential emissions from the project? MR. HANSON: Objection, lack of foundation, vague and ambiguous. THE WITNESS: I would have to ask for a – could you reclarify that? BY MR. BONEBRAKE: Q. Sure. Let me – let me take it in pieces. A. Okay. 	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. What else – what else would you need? A. Well, could you repeat the example? Im not – Q. Okay. So – I know these are – A. It's very hard without an application in front of me to step through the process, and also I haven't written a permit in 12 years, so. Q. Right. And again, I'm asking for MDNR's position – A. Right, right. Q. – because this is a 30(b)(6). A. Yes, I know. Q. We have an existing emission unit at a major source. A. Okay. Q. The source proposes a physical change at the existing emission unit, okay? A. Okay. Q. That physical change would not change the potential to emit of the emission unit. A. Okay.
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21 (Pages 78 to 81)

Case No. EF-2024-0021 Schedule CME-r8, Page 21 of 136

	Page 82	Page 84
1	MR. HANSON: Objection, vague and ambiguous,	1 not trigger any permitting action, then you don't need to do
2	lack of foundation, calls for hypothetical.	2 the net emissions change. It's a simplified
3	THE WITNESS: The potential emissions of that	3 Q. I see.
4	unit appear to be zero and if that is the only change that's	4 A calculation.
5	occurring, most likely the potential emissions at that	5 Q. So just to clarify, that if you have no
б	project would be zero.	6 potential project emission increase, you never need to get to
7	BY MR. BONEBRAKE:	7 the step two netting question; is that correct?
8	Q. Okay. And was that the applicability process	8 A. Or if the potential emissions of the project
9	that MDNR was using for construction permitting applicability	9 are below a threshold where it would not be beneficial to use
10	assessments for both major and minor sources, and again	10 a net emissions increase calculation, yes.
11	focused on the period from 1996 up until the time that any	11 Q. Okay. And then under this 2000 manual, if you
12	reform rule revisions were implemented in the state rules?	12 have an expected increase in potential emissions of the
13	A. Yes.	13 project and an expected net emission increase, then would you
14	Q. Question for you a little further down on page	14 look to confirm that you have a physical or operational
15	15, it's the third full paragraph. It starts with, at this	15 change that's not otherwise excluded? Would that be the next
16	point.	16 step in the process? 17 A. Could – could you restate? So you've
17 18	A. Uh-huh.	 A. Could – could you restate? So you've calculated potential emissions and then what's your question,
10	Q. And the second sentence reads, potential of construction should only include new equipment or additional	19 the next step?
20	capacity. Do you see that?	20 Q. Yeah, let's assume – let's step back a
20	A. Yes.	20 Q. Fear, it's assume – it's step back a 21 second. In order for there to be a modification, we need to
22	Q. And so the potential emissions of construction	 second: in order to under to be a medimentation, we need to have a physical or operational change that causes an emission
23	with respect to existing equipment would only change if there	23 increase; correct?
24	was an increase in capacity of that existing equipment;	24 A. Right.
25	right?	25 Q. So if – if under this manual we have an
	5 03	Dama 85
	Page 83	Page 85
1	Page 83	1 emission increase of the project –
2	MR. HANSON: Objection, lack of foundation, document call – speaks for itself.	1 emission increase of the project – 2 A. Yes.
2 3	MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of	 emission increase of the project A. Yes. Q and a net emission increase
2 3 4	MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of potential to construction in this document, yes.	 emission increase of the project – A. Yes. Q. – and a net emission increase – A. Yes.
2 3 4 5	MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of potential to construction in this document, yes. BY MR. BONEBRAKE:	 emission increase of the project – A. Yes. Q. – and a net emission increase – A. Yes. Q. – then would you also need to look to see if
2 3 4 5 6	MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of potential to construction in this document, yes. BY MR. BONEBRAKE: Q. Okay. If we go back to the flowchart on page	 emission increase of the project – A. Yes. Q. – and a net emission increase – A. Yes. Q. – then would you also need to look to see if you have a physical or operational change that's not
2 3 4 5 6 7	MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of potential to construction in this document, yes. BY MR. BONEBRAKE: Q. Okay. If we go back to the flowchart on page 21 – excuse me, on page 20. We were just talking about the	 emission increase of the project – A. Yes. Q. – and a net emission increase – A. Yes. Q. – then would you also need to look to see if you have a physical or operational change that's not otherwise excluded from permitting requirements under the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of potential to construction in this document, yes. BY MR. BONEBRAKE: Q. Okay. If we go back to the flowchart on page 21 – excuse me, on page 20. We were just talking about the step involved in the applicability process of assessing the potential emissions of the project; right? A. Yes. Q. Now, if there is an expected increase in potential emissions of the project, then would the next step in the applicability process be to look at whether or not there would be a net emissions change as well related to that project? MR. HANSON: Objection, document speaks for itself. THE WITNESS: Yes. You would look at – if this is for an existing facility, yes, you would look at –	1 emission increase of the project – 2 A. Yes. 3 Q. – and a net emission increase – 4 A. Yes. 5 Q. – then would you also need to look to see if 6 you have a physical or operational change that's not 7 otherwise excluded from permitting requirements under the 8 rule? 9 MR. HANSON: Objection, lack of foundation, 10 compound. 11 THE WITNESS: That would be part of the 12 review. I don't know if the next step, sometimes that's done 13 before you get to the potential emission calculation, so. 14 BY MR. BONEBRAKE: 15 Q. Fair enough. 16 A. Okay. 17 Q. But in any event, that's a step that needs to 0ccur? 19 19 A. Yes, you can review that, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of potential to construction in this document, yes. BY MR. BONEBRAKE: Q. Okay. If we go back to the flowchart on page 21 – excuse me, on page 20. We were just talking about the step involved in the applicability process of assessing the potential emissions of the project; right? A. Yes. Q. Now, if there is an expected increase in potential emissions of the project, then would the next step in the applicability process be to look at whether or not there would be a net emissions change as well related to that project? MR. HANSON: Objection, document speaks for itself. THE WITNESS: Yes. You would look at – if this is for an existing facility, yes, you would look at – if	1 emission increase of the project – 2 A. Yes. 3 Q. – and a net emission increase – 4 A. Yes. 5 Q. – then would you also need to look to see if 6 you have a physical or operational change that's not 7 otherwise excluded from permitting requirements under the 8 rule? 9 MR. HANSON: Objection, lack of foundation, 10 compound. 11 THE WITNESS: That would be part of the 12 review. I don't know if the next step, sometimes that's done 13 before you get to the potential emission calculation, so. 14 BY MR. BONEBRAKE: 15 Q. Fair enough. 16 A. Okay. 17 Q. But in any event, that's a step that needs to occur? Q. And by the way, while you were performing
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of potential to construction in this document, yes. BY MR. BONEBRAKE: Q. Okay. If we go back to the flowchart on page 21 – excuse me, on page 20. We were just talking about the step involved in the applicability process of assessing the potential emissions of the project; right? A. Yes. Q. Now, if there is an expected increase in potential emissions of the project, then would the next step in the applicability process be to look at whether or not there would be a net emissions change as well related to that project? MR. HANSON: Objection, document speaks for itself. THE WITNESS: Yes. You would look at – if this is for an existing facility, yes, you would look at – is by MR. BONEBRAKE: 	1 emission increase of the project – 2 A. Yes. 3 Q. – and a net emission increase – 4 A. Yes. 5 Q. – then would you also need to look to see if 6 you have a physical or operational change that's not 7 otherwise excluded from permitting requirements under the 8 rule? 9 MR. HANSON: Objection, lack of foundation, 10 compound. 11 THE WITNESS: That would be part of the 12 review. I don't know if the next step, sometimes that's done 13 before you get to the potential emission calculation, so. 14 BY MR. BONEBRAKE: 15 Q. Fair enough. 16 A. Okay. 17 Q. But in any event, that's a step that needs to 0ccur? Q. And by the way, while you were performing 20 Q. And by the way, while you were performing 21 duties either as a permit engineer or a manager, do you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of potential to construction in this document, yes. BY MR. BONEBRAKE: Q. Okay. If we go back to the flowchart on page 21 – excuse me, on page 20. We were just talking about the step involved in the applicability process of assessing the potential emissions of the project; right? A. Yes. Q. Now, if there is an expected increase in potential emissions of the project, then would the next step in the applicability process be to look at whether or not there would be a net emissions change as well related to that project? MR. HANSON: Objection, document speaks for itself. THE WITNESS: Yes. You would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, what do you mean by that? A. Well, the simplest matter is to look at the 	1 emission increase of the project – 2 A. Yes. 3 Q. – and a net emission increase – 4 A. Yes. 5 Q. – then would you also need to look to see if 6 you have a physical or operational change that's not 7 otherwise excluded from permitting requirements under the 8 rule? 9 MR. HANSON: Objection, lack of foundation, 10 compound. 11 THE WITNESS: That would be part of the 12 review. I don't know if the next step, sometimes that's done 13 before you get to the potential emission calculation, so. 14 BY MR. BONEBRAKE: 15 Q. Fair enough. 16 A. Okay. 17 Q. But in any event, that's a step that needs to occur? Q. And by the way, while you were performing 11 tuties either as a permit engineer or a manager, do you 12 recall ever relying upon the manual that is Exhibit 5 or any 13 version thereof? 14 A. Not extensively. As I mentioned earlier, this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 MR. HANSON: Objection, lack of foundation, document call – speaks for itself. THE WITNESS: That is the definition of potential to construction in this document, yes. BY MR. BONEBRAKE: Q. Okay. If we go back to the flowchart on page 21 – excuse me, on page 20. We were just talking about the step involved in the applicability process of assessing the potential emissions of the project; right? A. Yes. Q. Now, if there is an expected increase in potential emissions of the project, then would the next step in the applicability process be to look at whether or not there would be a net emissions change as well related to that project? MR. HANSON: Objection, document speaks for itself. THE WITNESS: Yes. You would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility, yes, you would look at – if this is for an existing facility is the project is existent. 	1 emission increase of the project – 2 A. Yes. 3 Q. – and a net emission increase – 4 A. Yes. 5 Q. – then would you also need to look to see if 6 you have a physical or operational change that's not 7 otherwise excluded from permitting requirements under the 8 rule? 9 MR. HANSON: Objection, lack of foundation, 10 compound. 11 THE WITNESS: That would be part of the 12 review. I don't know if the next step, sometimes that's done 13 before you get to the potential emission calculation, so. 14 BY MR. BONEBRAKE: 15 Q. Fair enough. 16 A. Okay. 17 Q. But in any event, that's a step that needs to occur? Q. And by the way, while you were performing 21 duties either as a permit engineer or a manager, do you 22 recall ever relying upon the manual that is Exhibit 5 or any 23 version thereof?

22 (Pages 82 to 85)

Case No. EF-2024-0021 Schedule CME-r8, Page 22 of 136

	Page 86		Page 88
1	it's dated 2000 and due to staffing workload, we didn't	1	BY MR. BONEBRAKE:
2	once this was drafted, we didn't have a lot of time and	2	Q. And what type of permit is addressed in
3	available time to update it and modify it. I would say I	3	section 5?
4	used the flowchart in its form multiple times in addition for	4	A. Section 5 refers to section 5 of our
5	drafting permits and reviewing permits, but also to explain	5	construction permit rule 6.060, which is our De Minimus
б	our permitting process to outside entities. Other than that,	6	permit review.
7	the document was available for review and guidance but it was	7	Q. And section 6?
8	not heavily relied upon until its recent configuration, which	8	A. Section 6 refers to our minor permits.
9	is what is on our Web site to date.	9	Q. And sections 7 and 8?
10	Q. Now, when you say you used the flowchart to	10	A. Seven and 8 are both the major permits. Eight
11	explain the process to outside entities, were any of those	11	would be the PSD permit rules, seven would be the
12	outside was US EPA among any of those outside entities?	12	non-attainment NSR rules.
13	A. I don't recall any specific – I mean, this is	13	Q. And this document is directing us, then, to
14	explaining the Missouri minor source permitting more so than	14	look at those sections to determine what should be in those
15	the PSD, but EPA would have been privy to this document, so	15	respective types of permits; correct?
16		16	A. Yes.
10	conversations on it may have come up.	17	
18	Q. Well, with respect to that that last	18	(Exhibit No. 7 was marked for identification.) BY MR. BONEBRAKE:
	answer, as we just were looking at the definition of		
19	modification as it's used in the applicability section	19	Q. Okay. We're showing to the witness has been
20	A. Yes.	20	marked as Deposition Exhibit No. 7 – 7 for identification.
21	Q and I think you've indicated before, did	21	A. Okay.
22	you not, that MDNR was using the concept of change in	22	Q. Can you take a moment to take a look at that
23	potential emissions to determine applicability of all	23	document, please?
24	construction permitting requirements, was that not correct?	24	MR. BONEBRAKE: And I'll note for the record
25	MR. HANSON: Objection.	25	that this is a multi-page exhibit bearing Bates-stamp
	Page 87		Page 89
1	THE WITNESS: Yes.	1	Nos. AM-00025867-MDNR through AM-00025884-MDNR. Make that
2	MR. HANSON: Vague and ambiguous.	2	885-MDNR.
3	BY MR. BONEBRAKE:	3	
4	Q. Yes? On page 21 in section 4, that section	· ·	BY MR. BONEBRAKE:
		4	Q. Have you had a chance to take a look at the
5	provides in the first sentence, once the applicability has	5	Q. Have you had a chance to take a look at the exhibit?
5 6		5 6	Q. Have you had a chance to take a look at the exhibit?A. Yes, briefly.
	provides in the first sentence, once the applicability has	5 6 7	Q. Have you had a chance to take a look at the exhibit?A. Yes, briefly.Q. And is this exhibit comprised of a no permit
6	provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5,	5 6 7 8	Q. Have you had a chance to take a look at the exhibit?A. Yes, briefly.
6 7	provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out	5 6 7 8 9	Q. Have you had a chance to take a look at the exhibit?A. Yes, briefly.Q. And is this exhibit comprised of a no permit
6 7 8	provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5,	5 6 7 8 9 10	Q. Have you had a chance to take a look at the exhibit?A. Yes, briefly.Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated
6 7 8 9	provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis	5 6 7 8 9 10 11	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents?
6 7 8 9 10	provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that?	5 6 7 8 9 10	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct.
6 7 8 9 10 11	provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes.	5 6 7 8 9 10 11	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a
6 7 8 9 10 11 12	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has 	5 6 7 8 9 10 11 12 13 14	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we
6 7 8 9 10 11 12 13	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related 	5 6 7 8 9 10 11 12 13	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by
6 7 8 9 10 11 12 13 14	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related permitting is, step one, you look at the definition of 	5 6 7 8 9 10 11 12 13 14	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by MDNR
6 7 8 9 10 11 12 13 14 15	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related permitting is, step one, you look at the definition of modification and determine if there's a physical or operational change that would cause an increase in potential 	5 6 7 8 9 10 11 12 13 14 15	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by MDNR A. Okay.
6 7 8 9 10 11 12 13 14 15 16	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related permitting is, step one, you look at the definition of modification and determine if there's a physical or operational change that would cause an increase in potential emissions and net emissions, and then step two, if the answer 	5 6 7 8 9 10 11 12 13 14 15 16	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by MDNR A. Okay. Q. So if you bear with me through some
6 7 8 9 10 11 12 13 14 15 16 17	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related permitting is, step one, you look at the definition of modification and determine if there's a physical or operational change that would cause an increase in potential emissions and net emissions, and then step two, if the answer is yes, you look to sections 5, 6, 7, and 8 of the 	5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by MDNR A. Okay. Q. So if you bear with me through some administrative questions here.
6 7 8 9 10 11 12 13 14 15 16 17 18	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related permitting is, step one, you look at the definition of modification and determine if there's a physical or operational change that would cause an increase in potential emissions and net emissions, and then step two, if the answer is yes, you look to sections 5, 6, 7, and 8 of the construction permitting rules to determine what the 	5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by MDNR A. Okay. Q. So if you bear with me through some administrative questions here. A. Yes.
6 7 8 9 10 11 12 13 14 15 16 17 18 19	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related permitting is, step one, you look at the definition of modification and determine if there's a physical or operational change that would cause an increase in potential emissions and net emissions, and then step two, if the answer is yes, you look to sections 5, 6, 7, and 8 of the construction permitting rules to determine what the permitting requirements would be for the required permit; is 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by MDNR A. Okay. Q. So if you bear with me through some administrative questions here. A. Yes. Q. The first page of this exhibit is a document
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related permitting is, step one, you look at the definition of modification and determine if there's a physical or operational change that would cause an increase in potential emissions and net emissions, and then step two, if the answer is yes, you look to sections 5, 6, 7, and 8 of the construction permitting rules to determine what the permitting requirements would be for the required permit; is that correct? 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by MDNR A. Okay. Q. So if you bear with me through some administrative questions here. A. Yes. Q. The first page of this exhibit is a document entitled permit action management system or parens PAMS, end
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related permitting is, step one, you look at the definition of modification and determine if there's a physical or operational change that would cause an increase in potential emissions and net emissions, and then step two, if the answer is yes, you look to sections 5, 6, 7, and 8 of the construction permitting rules to determine what the permitting requirements would be for the required permit; is that correct? MR. HANSON: Objection, compound. 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by MDNR A. Okay. Q. So if you bear with me through some administrative questions here. A. Yes. Q. The first page of this exhibit is a document entitled permit action management system or parens PAMS, end parens. What is this document? What's its purpose?
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 provides in the first sentence, once the applicability has been determined, permit reviewers will refer to the individual sections of the rule to find – rules to find out what is required. The main difference is in the sections 5, 6, 7, and 8 involve the extent of air quality impact analysis in the pipe, if any, of control evaluation. Do you see that? A. Yes. Q. So am I correct that the process that MDNR has employed for applicability assessments and then related permitting is, step one, you look at the definition of modification and determine if there's a physical or operational change that would cause an increase in potential emissions and net emissions, and then step two, if the answer is yes, you look to sections 5, 6, 7, and 8 of the construction permitting rules to determine what the permitting requirements would be for the required permit; is that correct? 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Have you had a chance to take a look at the exhibit? A. Yes, briefly. Q. And is this exhibit comprised of a no permit required letter dated July 21, 2006 from MDNR to Associated Electric Cooperative, Inc. and related documents? A. That's correct. Q. And I wanted to use this exhibit to talk a little bit about your file system to make sure that we understand the documents that have been produced to us by MDNR A. Okay. Q. So if you bear with me through some administrative questions here. A. Yes. Q. The first page of this exhibit is a document entitled permit action management system or parens PAMS, end parens. What is this document? What's its puppose? A. We have had some type of permit action

23 (Pages 86 to 89)

Case No. EF-2024-0021 Schedule CME-r8, Page 23 of 136

	Page 90		Page 92
1		1	
1	received. We assign as soon as a project comes in,	1 2	that comprise this exhibit have been kept in an individual
2 3	whether it's a permit application or a letter from a	3	file?
3 4	facility, anything that requires our response from the permit section in this case. It gets logged – it is logged in as	4	A. Yes. This appears to be the project file for that project. There's a fee work sheet as well as the
4 5	0 00 00	5	
6	a – with a project number. In this case, the review number is our project number. It's also logged in by facility ID.	6	original letter and any correspondence.
7		7	Q. Okay. So MDNR, then, would keep a file for
8	If we already have that facility in our system, if it's a	8	each project, whether it be an applicability determination inquiry or an issued permit?
9	brand new facility, we assign it a facility ID so it has the project number, facility ID, name of the facility, a – as	9	A. That's correct.
10	best as we can determine when the project comes in, it's	10	
11	1 0	11	Q. Okay. Now, what was your involvement – we talked about the fact that you signed this letter. What was
12	logged in as what type of project. In this case, the permit type is listed applicability determination request. And then	12	your involvement with the applicability determination
13	this is a tracking sheet that the permit writer staff member	13	reflected in MDNR's letter?
14		14	
14	assigned in this category, the DNR staff assigned was Lina	15	A. Most permit determinations letters that I
15 16	Kline, updates this and what stage the project is. And this is our – our internal review steps that are listed here.	15	signed, my involvement would not be until the very end when the letter was presented to me with a staff recommendation,
17	-	17	which is the letter. So the staff reviewed the document.
18	Q. Okay. Thank you. And in this particular case, the project number was 2006-05-022; correct?	18	submitted it to me with a draft letter with their
10 19	A. That's correct.	19	recommendation that no permit is required. And then I would
20	Q. And is the first number, the 2006, is that the	20	sign the letter based on their recommendation.
20	year of the inquiry that lead to the applicability	20	Q. Okay. And Lina Kline is indicated as the
22	determination?	22	
22	A. Yes. Since approximately 1998, our project	23	contact person. A. Yes.
23 24	numbers identify the year it was received, the month it was	23	Q. So what is the significance of her listing
24 25	received, and then the number of project received in that	25	there?
23		25	unit:
	Page 91		Page 93
1	month. So for example this 2006-05-022 was the 22nd project	1	A. That indicates she was the project reviewer on
2	we received in May, 2006.	2	this project, and that is also affirmed by the PAMS sheet on
3	Q. And and does project refer only to	3	the front, the staff member assigned was Lina Kline.
4	applicability determination inquiries or is it broader than	4	Q. And would you anticipate from the fact that
5	that?	5	she was listed as contact person, that she was the drafter of
6	A. No, it is every project we receive into the	6	the letter?
7	permit section. As I mentioned, any project that requires a	7	A. Yes. Also it indicates under the initials of
8	response: Permit applications, letters requesting whether we	8	my initials KLM, the first two initials is the drafter of the
9	concur with a permit determination request. At one time, we	9	letter. In the occasion that the person's name is not here,
10	also received sales tax exemption requests, so any project	10	those initials would indicate who drafted the letter, LK.
11	that we needed to take action on would be logged in as a	11	Q. Okay. And you're referring to the initials on
12	project.	12	the document the page with the Bates-stamp No. AM00025869;
13	Q. And then the next page of the exhibit and the	13	is that correct?
14	page thereafter, is that a copy of an MDNR letter dated	14	A. That's correct.
14	page unceated, is that a copy of all with the dated		
14 15	July 21, 2006?	15	Q. And you were permit section chief at the time
		15 16	Q. And you were permit section chief at the time you signed this letter?
15	July 21, 2006? A. That's correct.		- • •
15 16	July 21, 2006? A. That's correct.	16	you signed this letter?
15 16 17	July 21, 2006? A. That's correct. Q. And is that letter signed by you?	16 17	you signed this letter? A. Yes.
15 16 17 18	July 21, 2006? A. That's correct. Q. And is that letter signed by you? A. Yes.	16 17 18	you signed this letter? A. Yes. Q. And you were authorized at that point to issue
15 16 17 18 19	July 21, 2006? A. That's correct. Q. And is that letter signed by you? A. Yes. Q. And you recognize your signature there? A. Yes.	16 17 18 19	you signed this letter? A. Yes. Q. And you were authorized at that point to issue applicability determinations for MDNR?
15 16 17 18 19 20	July 21, 2006? A. That's correct. Q. And is that letter signed by you? A. Yes. Q. And you recognize your signature there? A. Yes. Q. And then the remainder of the exhibit contains	16 17 18 19 20	 you signed this letter? A. Yes. Q. And you were authorized at that point to issue applicability determinations for MDNR? A. Yes. Q. And is Lina Kline still with MDNR?
15 16 17 18 19 20 21	 July 21, 2006? A. That's correct. Q. And is that letter signed by you? A. Yes. Q. And you recognize your signature there? A. Yes. Q. And then the remainder of the exhibit contains e-mails as well as the requests for the applicability 	16 17 18 19 20 21	you signed this letter?A. Yes.Q. And you were authorized at that point to issue applicability determinations for MDNR?A. Yes.
15 16 17 18 19 20 21 22	July 21, 2006? A. That's correct. Q. And is that letter signed by you? A. Yes. Q. And you recognize your signature there? A. Yes. Q. And then the remainder of the exhibit contains	16 17 18 19 20 21 22	 you signed this letter? A. Yes. Q. And you were authorized at that point to issue applicability determinations for MDNR? A. Yes. Q. And is Lina Kline still with MDNR? A. No, she is not.

24 (Pages 90 to 93)

Case No. EF-2024-0021 Schedule CME-r8, Page 24 of 136

	Page 94		Page 96
1	Q. And do you know where she works currently?	1	metal casing that surrounds the inlet header and barrel
2	A. She currently works for Fred Weber in	2	tubes, and there's further description that it created a
3	St. Louis County.	3	corrosive environment on the barrel tubes.
4	Q. Is that Inc. or LLC?	4	Q. And so wall thickness of the tubes had been
5	A. I think it's just Fred Weber. It's a concrete	5	decreased to unacceptable levels; is that correct?
б	and asphalt plant company.	6	MR. HANSON: Objection, the document speaks
7	Q. Oh, I see. I was thinking consultant.	7	for itself.
8	A. Yeah, no, it is a facility.	8	THE WITNESS: I don't see the word
9	Q. Okay.	9	"unacceptable," but it does talk about the wall thickness and
10	A. So.	10	the the current thickness and the original thickness and
11	Q. So it's an actual production facility of some	11	then they are replacing the tubes and the shut-off and
12	kind?	12	control dampers, yes.
13	A. Yes, yes.	13	BY MR. BONEBRAKE:
14	Q. Now with respect to the applicability	14	Q. Now, was this one of the applicability
15	determination process, I think we talked a little bit about	15	determinations, you know, for which you did some related
16	that and the fact that MDNR generates a file then for	16	review to prepare for the deposition?
17	projects as as they come in. Is it true that in Missouri,	17	A. I do believe this is one of the documents if
18	a source can ask for an applicability determination for	18	it was on the list of the subpoena, yes, I would have read
19	construction permitting but is not required to do so?	19	the letter.
20	A. That's correct.	20	Q. And – and – and do you recall either from
21	Q. And that would be true for both PSD and other	21	looking at the letter or your related review whether or not
22	forms of construction permits; is that correct?	22	the causes, the reasons why the plant was wanting to change
23	A. Yes, that's correct.	23	the cyclone burners was to reduce outages or derates caused
24	Q. And turning to the details of this particular	24	by the tubes?
25	letter and looking at page AM-00025868-MDNR, MDNR's	25	MR. HANSON: Objection, the document speaks
	Page 95		, Page 97
1	determination as set forth in this letter related to	1	for itself, vague and ambiguous.
2	construction permit applicability for the replacement of	2	THE WITNESS: I didn't get into that much
3	cyclone burners for two units at the Thomas Hill plant	3	detail, and down in the weeds, if you will, but it just
4	operated by AECI; is that correct?	4	appears based on the letter that there was some operational
5	A. Yes.	5	issues that they were trying to take care of by replacing
6	Q. Was the Thomas Hill plant a major source at	6	these tubes.
7	the time of this determination?	7	BY MR. BONEBRAKE:
8	A. Yes.	8	Q. Do you know if MDNR ever inquired of AECI if
9	Q. And do you know why AECI was replacing the	9	the plant had been experiencing outages or derates as a
10	cyclone burners of those two units?	10	result of the cyclone tubes that the plant wanted to replace?
11	MR. HANSON: Objection, lack of foundation.	11	MR. HANSON: Objection, the document refers to
12	THE WITNESS: Other than what is in this	12	cyclone burners.
13	letter and the e-mails, no.	13	THE WITNESS: That would be a since this
14	BY MR. BONEBRAKE:	14	appears to be the entire project file, that would be in the
15	Q. Okay. And with respect to this letter, do we	15	documents here. There is an e-mail where Lina's asking for
16	see $a - a$ description of at least some of the reason why in	16	the capital cost. What was your question, if they were
17	the second paragraph?	17	doing?
18	MR. HANSON: Objection, document speaks for	18	BY MR. BONEBRAKE:
19	itself.	19	Q. Whether MDNR ever inquired of AECI about
20	THE WITNESS: Yes.	20	whether the cyclone burners to be replaced had caused outages
20 21	BY MR. BONEBRAKE:	21	or derates at Units 1 or 2 at the Thompson Hill plant.
21	Q. And what's your understanding based upon that	22	A. In glancing through, the e-mail correspondence
22	paragraph of why AECI was replacing the cyclones?	23	between Lina Kline and Todd Tolbert, I don't see offhand the
23 24	A. The letter states that they were replacing	23	
24 25		24	conversation on outages.
2.0	these because co-ash and slag have accumulated within the		Q. And back – back in 2006 when – when you
1			

25 (Pages 94 to 97)

Case No. EF-2024-0021 Schedule CME-r8, Page 25 of 136

	Page 98		Page 100
1	signed this letter, would that have been an inquiry you would		potential to emit, according to the applicant, the change
2	have expected MDNR to make of a source proposing this kind of	2	cannot be considered a modification per Missouri state rule.
3	project?	3	Do you see that?
4	A. Not necessarily. If the project engineer did	4	A. Yes.
5	not find that relevant to the determination, no, she would	5	Q. And the Missouri state rule that you are
6	not have asked that.	6 7	referencing in your letter here is 10 CSR 10-6.060; is that
7	Q. And there's nothing in the file, is there,	8	correct? And you can see –
8	that indicates that the project engineer thought that was	9	A. The particular state rule
9 10	relevant?	10	Q. Just point you to the first paragraph as well,
10	A. I'm not seeing that.	10	if that's helpful for you.
12	MR. HANSON: Objection, the document speaks for itself.	12	A. Right, the – I mean, the answer's yes, but
12		13	because the definition of modification is technically in 6020 , but use the 6000 is the neural rule.
13	BY MR. BONEBRAKE:	14	6.020, but yes, the 6.060 is the permit rule.
14	Q. About halfway down the first page of your	14	Q. So in your letter, then, you were – you were
16	letter, there's a there's a letter to reconstruction. Do	16	finding, you were making a determination – strike that. In this MDNR letter signed by you, MDNR was
17	you see that? A. Yes.	17	making a determination that the replacement of cyclone
18	A. res. Q. Is that an NSPS concept?	18	burners would not be a modification under Missouri's
19	A. Yes.	19	construction permitting rules, correct?
20	Q. That's capital N-S-P-S. Is the concept of	20	A. That's correct.
20	reconstruction relevant for construction permitting	20	Q. And that would mean there was no permit –
22	applicability assessments?	22	construction permit of any kind required for this project,
23	MR. HANSON: Objection, vague and ambiguous.	23	including no PSD permit; is that correct?
24	Also vague as to time.	24	A. That is the determination made at this time.
25	THE WITNESS: Well, it was part of the	25	Q. Okay. And the sentence that I just read
25	The wireless. Well, it was part of the		
	Page 99		Page 101
1	Page 99	1	Page 101
1	determination in this letter that it was not reconstruction	1	refers to the fact that there will be no increase in the
2	determination in this letter that it was not reconstruction and therefore no construction permit is required. So it is	2	refers to the fact that there will be no increase in the potential to emit. Do you see that?
2 3	determination in this letter that it was not reconstruction and therefore no construction permit is required. So it is relevant in this situation.	2 3	refers to the fact that there will be no increase in the potential to emit. Do you see that? A. Yes.
2 3 4	determination in this letter that it was not reconstruction and therefore no construction permit is required. So it is relevant in this situation. BY MR. BONEBRAKE:	2 3 4	refers to the fact that there will be no increase in the potential to emit. Do you see that? A. Yes. Q. And is it correct, then, that MDNR was looking
2 3 4 5	determination in this letter that it was not reconstruction and therefore no construction permit is required. So it is relevant in this situation. BY MR. BONEBRAKE: Q. Do you know if – if the NSPS program has any	2 3 4 5	refers to the fact that there will be no increase in the potential to emit. Do you see that? A. Yes. Q. And is it correct, then, that MDNR was looking for applicability review purposes at whether the proposed
2 3 4 5 6	determination in this letter that it was not reconstruction and therefore no construction permit is required. So it is relevant in this situation. BY MR. BONEBRAKE: Q. Do you know if – if the NSPS program has any permitting requirement?	2 3 4 5 6	refers to the fact that there will be no increase in the potential to emit. Do you see that? A. Yes. Q. And is it correct, then, that MDNR was looking for applicability review purposes at whether the proposed cyclone burner project would change the potential to emit of
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2 3 4 5 6 7 8	determination in this letter that it was not reconstruction and therefore no construction permit is required. So it is relevant in this situation. BY MR. BONEBRAKE: Q. Do you know if – if the NSPS program has any permitting requirement? A. The NSPS – MR. HANSON: Objection, outside the scope.	2 3 4 5 6 7 8	refers to the fact that there will be no increase in the potential to emit. Do you see that? A. Yes. Q. And is it correct, then, that MDNR was looking for applicability review purposes at whether the proposed cyclone burner project would change the potential to emit of the emission units effected by the cyclone burner project? A. Yes.
2 3 4 5 6 7 8 9	determination in this letter that it was not reconstruction and therefore no construction permit is required. So it is relevant in this situation. BY MR. BONEBRAKE: Q. Do you know if – if the NSPS program has any permitting requirement? A. The NSPS – MR. HANSON: Objection, outside the scope. THE WITNESS: The NSPS program, if you will,	2 3 4 5 6 7 8 9	refers to the fact that there will be no increase in the potential to emit. Do you see that? A. Yes. Q. And is it correct, then, that MDNR was looking for applicability review purposes at whether the proposed cyclone bumer project would change the potential to emit of the emission units effected by the cyclone bumer project? A. Yes. Q. And in this case, MDNR found that the proposed
2 3 4 5 6 7 8 9 10	determination in this letter that it was not reconstruction and therefore no construction permit is required. So it is relevant in this situation. BY MR. BONEBRAKE: Q. Do you know if – if the NSPS program has any permitting requirement? A. The NSPS – MR. HANSON: Objection, outside the scope. THE WITNESS: The NSPS program, if you will, is just different sets of rules and standards that sources	2 3 4 5 6 7 8 9 10	refers to the fact that there will be no increase in the potential to emit. Do you see that? A. Yes. Q. And is it correct, then, that MDNR was looking for applicability review purposes at whether the proposed cyclone burner project would change the potential to emit of the emission units effected by the cyclone burner project? A. Yes. Q. And in this case, MDNR found that the proposed replacement of cyclone burners would not change the potential
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 determination in this letter that it was not reconstruction and therefore no construction permit is required. So it is relevant in this situation. BY MR. BONEBRAKE: Q. Do you know if – if the NSPS program has any permitting requirement? A. The NSPS – MR. HANSON: Objection, outside the scope. THE WITNESS: The NSPS program, if you will, is just different sets of rules and standards that sources have to comply with. It has a role in permitting, but your question is does it require a permit? BY MR. BONEBRAKE: Q. Correct, when triggered. MR. HANSON: Same objection. THE WITNESS: Not necessarily. It would be case by case. The new source – the new source performance standard is not going to trigger a permit by itself, so. BY MR. BONEBRAKE: Q. Okay. All right. And then the next paragraph after the quote of reconstruction, I'd like to talk about that paragraph – A. Okay. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 refers to the fact that there will be no increase in the potential to emit. Do you see that? A. Yes. Q. And is it correct, then, that MDNR was looking for applicability review purposes at whether the proposed cyclone burner project would change the potential to emit of the emission units effected by the cyclone burner project? A. Yes. Q. And in this case, MDNR found that the proposed replacement of cyclone burners would not change the potential to emit of Units 1 and 2 at the Thompson – at the Thomas Hill plant; is that correct? A. There was no increase in the potential emissions, that is correct. Q. And as we discussed earlier in connection with the – the rule, when there is no increase in the potential to emit of the emission unit, there is no modification under Missouri's construction permitting rules; is that correct? A. Yes. Q. And do you know in reference to the – the phrase "increase in the potential to emit," whether MDNR was looking at the annual potential to emit of Units 1 and 2 at the Thomas Hill plant?

26 (Pages 98 to 101)

Case No. EF-2024-0021 Schedule CME-r8, Page 26 of 136

	Page 102		Page 104
1	the potential emissions of the – it would be annual, as you	1	A. Yes, I do.
2	state.	2	Q. And what is this document?
3	BY MR. BONEBRAKE:	3	A. This is a general overview of air permitting
4	Q. And it would be annual for what reason?	4	for the air pollution control program.
5	A. Well, it's the potential emissions as defined	5	Q. And were you involved in the preparation of
6	as 8,760 hours, so it would be annual.	6	this document?
7	Q. So as of 2006, then, MDNR is determining that	7	A. I was.
8	a change in an emission unit does not require a construction	8	Q. And what was that involvement?
9	permit of any kind unless that change increases the potential	9	A. I believe my recollection is I put this
10	to emit of the emission unit; is that correct?	10	together with the assistance of the other staff members
11	MR. HANSON: Objection, lack of foundation,	11	listed on here, Kendall Hale and Mike Stansfield, to give a
12	vague as to time.	12	mile-high view of the air permitting in Missouri.
13	THE WITNESS: The determination was made in	13	Q. And was this document intended to be provided
14	this case that that no permit was required based on no	14	to sources in Missouri to provide guidance regarding
15	increase in emissions, yes.	15	construction permitting?
16	BY MR. BONEBRAKE:	16	A. It was one piece of guidance. I think the
17	O. And the no increase in emissions was no	17	reason I put it together was for internal staff. My
18	increase in potential emissions of the emission units; right?	18	recollection is when we switched program directors, this was
10 19	A. Yes.	19	something I utilized to explain our permitting process to our
20		20	
20 21	Q. And do you know based upon your review how MDNR determined that there would be no increase in the	20	new program director.
22		21	Q. Was this – was this document posted on MDNR
	potential emissions of the emission units?	22	Web site at any time?
23	A. Based on the data in this project file, the		A. No, I don't believe so. It may have been
24 25	project reviewer, in this case Lina Kline, obtained that	24	included in our air advisory form Web site, but I would have
25	information through the letter and through subsequent e-mails	25	to check that history to know.
	Page 103		Page 105
1	with the facility.	1	Q. But it was provided to permit engineers as
2	Q. But would it be true based upon your	2	guidance to construction permitting requirements?
3	experience that the replacement of tubes within a boiler	3	A. It was utilized more for management. It was
4	would typically change the maximum emission capacity of a	4	available to permit staff because it was on our network, but
5	boiler?	5	it was more of a - attempt to simplify our permit process
б	MR. HANSON: Objection, calls for speculation,	6	for my upper management.
7	lack of foundation, also hypothetical.	7	Q. Okay. At the top of the second page, it's the
8	THE WITNESS: In this case, that was the	8	second bullet from the top. And the first sentence reads,
9	determination. As I mentioned earlier, everything we do is	9	potential emissions of proposed project determine type of
10	very case by case, so making that broad statement is not	10	construction permit needed. And the next sentence reads,
11	something I can do.	11	potential emissions are calculated based on maximum design
12	BY MR. BONEBRAKE:	12	capacity of the installation assuming continuous year-round
13	Q. By the way, do you know if cyclones in boilers	13	operation. Can you describe for us whether – whether this
14	are comprised of tubes?	14	is a description well, strike that.
15	A. No, I do not.	15	Is this $a - a$ description of the way to
16	Q. Okay.	16	determine whether or not a change at an existing source would
17	(Exhibit No. 8 was marked for identification.)	17	be a modification?
18	BY MR. BONEBRAKE:	18	A. Yes, this is – again, this is a very
19	Q. Okay. We're going to present to you a	19	simplified approach to construction permits and this is
20	document that's been marked as Deposition Exhibit No. 8.	20	describing potential emissions and that they are calculated
21	It's a three-page document bearing Bates-stamp Nos.	21	8,760 hours per year maximum design capacity. That is what
22	AM-00631952-MDNR through 1954. And if you could take a look	22	that bullet is for.
23	at that, please.	23	Q. Okay. So consistent with our – with our
24	-		- ·
25	-		-
	A. All right.Q. Have you had a chance to take a look?	24 25	earlier discussion when MDNR was assessing construction permit applicability and looking at the issue of change in

27 (Pages 102 to 105)

Case No. EF-2024-0021 Schedule CME-r8, Page 27 of 136

	Page 106		Page 108
1	potential emissions, it was looking at whether the potential	1	Q. Okay. These were produced to us in serial
2	to emit on an annual basis would be impacted by a project; is	2	Bates-stamp number with serial Bates stamp numbers and
3	that correct?	3	they all appear to us to be related to the same project
4	MR. HANSON: Objection, lack of foundation,	4	review by MDNR. Does that appear to be the case for you
5	calls for speculation, calls for hypothetical.	5	based upon your review?
6	THE WITNESS: Again, the purpose of this	6	A. Yes.
7	document was trying to boil down our somewhat complicated	7	Q. And do all the documents that comprise this
8	flowchart of permitting into a couple pages to explain to	8	exhibit relate to a no permit required determination by MDNR
9	management and others who were not at all familiar with	9	related to a project at the Sibley plant?
10	permits. So this bullet point in question on potential	10	A. All these documents are related to this
11	emissions is just to describe the concept of potential	11	project number 0840-003-006, which based on the permits
12	emissions, which for people who don't deal with air	12	detail report, this was the pre-PAMS database, it says no
13	permitting, it's very difficult to understand potential	13	permit required. There's no letter or determination from our
14	emissions unless you explain it as maximum design 8,760 hours	14	office. There are just documents from Missouri Public
15	per year. So that's the purpose of this bullet point.	15	Service, a testimony, and then the letter. And that is what
16	BY MR. BONEBRAKE:	16	I looked briefly for to see our letter in response, but I do
17	Q. Okay. So this this is an abbreviated	17	not see that here. And I have not reviewed it either.
18	description on applicability assessment that's more fully	18	Q. You mentioned that the first page of this
19	described in the manual we were talking about earlier?	19	exhibit, the permits detail report, that that was a
20	A. Yes, the manual would probably go into more	20	predecessor to the cover sheet that we were talking about
21	detail.	21	earlier with respect to the 2006 applicability determination?
22	Q. Okay.	22	A. Yes. This is a permit database tracking
23	THE WITNESS: Can I have a quick break to get	23	sheet, an earlier database to the one we use now, similar
24	some more water?	24	information.
25	MR. BONEBRAKE: Sure, let's go off the record.	25	Q. And when was that earlier database in place?
	Page 107		. Page 109
1	Page 107 VIDEOGRAPHER: Off the record at 11:09.	1	Page 109 A. It – I'm not sure when it started. It was in
2	VIDEOGRAPHER: Off the record at 11:09. (A break was held.)	2	A. It – I'm not sure when it started. It was in place – it was called PATS, permit area tracking system,
2 3	VIDEOGRAPHER: Off the record at 11:09. (A break was held.) (Exhibit No. 9 was marked for identification.)		 A. It I'm not sure when it started. It was in place it was called PATS, permit area tracking system, when I started in 1999. We switched to the PAMS, the version
2 3 4	VIDEOGRAPHER: Off the record at 11:09. (A break was held.) (Exhibit No. 9 was marked for identification.) VIDEOGRAPHER: We are back on the record after	2 3 4	A. It – I'm not sure when it started. It was in place – it was called PATS, permit area tracking system,
2 3 4 5	VIDEOGRAPHER: Off the record at 11:09. (A break was held.) (Exhibit No. 9 was marked for identification.) VIDEOGRAPHER: We are back on the record after a short break. It's 11:29 a.m.	2 3 4 5	A. It – I'm not sure when it started. It was in place – it was called PATS, permit area tracking system, when I started in 1999. We switched to the PAMS, the version that we reviewed earlier, in early 2000s. I don't know how long this database was in place.
2 3 4 5 6	VIDEOGRAPHER: Off the record at 11:09. (A break was held.) (Exhibit No. 9 was marked for identification.) VIDEOGRAPHER: We are back on the record after a short break. It's 11:29 a.m. BY MR BONEBRAKE:	2 3 4 5 6	 A. It – I'm not sure when it started. It was in place – it was called PATS, permit area tracking system, when I started in 1999. We switched to the PAMS, the version that we reviewed earlier, in early 2000s. I don't know how long this database was in place. Q. And the review number here, starting with 084
2 3 4 5 6 7	VIDEOGRAPHER: Off the record at 11:09. (A break was held.) (Exhibit No. 9 was marked for identification.) VIDEOGRAPHER: We are back on the record after a short break. It's 11:29 a.m. BY MR BONEBRAKE: Q. I'm going to present to you our next exhibit.	2 3 4 5 6 7	 A. It – I'm not sure when it started. It was in place – it was called PATS, permit area tracking system, when I started in 1999. We switched to the PAMS, the version that we reviewed earlier, in early 2000s. I don't know how long this database was in place. Q. And the review number here, starting with 084 on the top of the first page, is that correspond did that
2 3 4 5 6 7 8	VIDEOGRAPHER: Off the record at 11:09. (A break was held.) (Exhibit No. 9 was marked for identification.) VIDEOGRAPHER: We are back on the record after a short break. It's 11:29 a.m. BY MR BONEBRAKE: Q. I'm going to present to you our next exhibit. This is Exhibit No. 9 bearing Bates-stamp	2 3 4 5 6 7 8	 A. It – I'm not sure when it started. It was in place – it was called PATS, permit area tracking system, when I started in 1999. We switched to the PAMS, the version that we reviewed earlier, in early 2000s. I don't know how long this database was in place. Q. And the review number here, starting with 084 on the top of the first page, is that correspond did that correspond to the later project number?
2 3 4 5 6 7 8 9	VIDEOGRAPHER: Off the record at 11:09. (A break was held.) (Exhibit No. 9 was marked for identification.) VIDEOGRAPHER: We are back on the record after a short break. It's 11:29 a.m. BY MR. BONEBRAKE: Q. I'm going to present to you our next exhibit. This is Exhibit No. 9 bearing Bates-stamp No. AM-02317760-MDNR through 797-MDNR. Hand that to you.	2 3 4 5 6 7 8 9	 A. It – I'm not sure when it started. It was in place – it was called PATS, permit area tracking system, when I started in 1999. We switched to the PAMS, the version that we reviewed earlier, in early 2000s. I don't know how long this database was in place. Q. And the review number here, starting with 084 on the top of the first page, is that correspond did that correspond to the later project number? A. That is – yes, that was the project number at
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2 3 4 5 6 7 8 9 10 11 12 13 14	VIDEOGRAPHER: Off the record at 11:09. (A break was held.) (Exhibit No. 9 was marked for identification.) VIDEOGRAPHER: We are back on the record after a short break. It's 11:29 a.m. BY MR BONEBRAKE: Q. I'm going to present to you our next exhibit. This is Exhibit No. 9 bearing Bates-stamp No. AM-02317760-MDNR through 797-MDNR. Hand that to you. Will you take a look at that, please, for me? A. Okay. Q. Have you had a chance to take look at that exhibit? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14	 A. It – I'm not sure when it started. It was in place – it was called PATS, permit area tracking system, when I started in 1999. We switched to the PAMS, the version that we reviewed earlier, in early 2000s. I don't know how long this database was in place. Q. And the review number here, starting with 084 on the top of the first page, is that correspond did that correspond to the later project number? A. That is – yes, that was the project number at the time, which we then replaced with the more date-oriented project number. Q. And if you turn with me toward the back of the document, it's the Bates-stamp No. 02317793. A. Okay.
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28 (Pages 106 to 109)

Case No. EF-2024-0021 Schedule CME-r8, Page 28 of 136

	Page 110		Page 112
1	A. Yes.	1	A. It says the total cost of this these projects
2	Q. And does that correspond to the review number	2	is approximately 70 million dollars, yes.
3	listed on the permits detail report on the first page of this	3	Q. And was Randy Raymond the deputy director of
4	exhibit?	4	MDNR as of February 16th, 1990?
5	A. Yes.	5	A. That is the title listed on the document. To
б	Q. And does that indicate to you that the project	6	my knowledge, he was the permit section chief as well.
7	described in the Missouri Public Service letter of	7	Q. And is Mr. Raymond still with MDNR?
8	February 16, 1990, to Randy Raymond was the project addressed	8	A. No, he is retired.
9	by the permit detail report, which is the first page of this	9	Q. On the first page, the permits detail report,
10	exhibit?	10	there is an identification of a DNR staff.
11	A. Yes.	11	A. Yes.
12	Q. And as you noted, MDNR made a no permit	12	Q. Is that Karen Curtit, C-u-r-t-i-t?
13	required determination with respect to the activities	13	A. Yes.
14	described in Missouri Public Service Company's February 16th,	14	Q. Does that indicate that she was involved in
15	1990, letter; is that correct?	15	the decision?
16	A. The only thing I can lead to on that is that	16	A. Yeah, she was the staff member assigned to
17	the detail report does say it's closed out as a no permit	17	this project.
18	required project. There's not a letter explaining why no	18	Q. So she was a project engineer?
19	permit was required, but I would rely on that sentence that	19	A. Yes.
20	the status is no permit required. But there's no internal	20	Q. Is she with MDNR at this point in time?
21	review documents.	21	A. No, she is not.
22	Q. Okay. But if you were if MDNR wanted to	22	Q. Do you know if she's employed elsewhere?
23	determine the result of any review of the Missouri Public	23	A. She works for Shell Engineering in Columbia,
24	Service Company's activities for permit applicability, the	24	Missouri.
25	permit detail report would be a place that MDNR would go to	25	Q. So I take it based upon your review of the
		1	
	Page 111		. Page 113
1	Page 111 determine the status of the review?	1	available materials, you do not know why MDNR determined that
1 2	_	2	·
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 determine the status of the review? A. The way I would interpret this, because of the age of the project, is we didn't do any permit action and it was logged in as no permit required because we did not take any action. So because there's no determination, that was most likely a default in our system that no permit was issued or required, so. Q. But to your knowledge, no permit was required for this set of activities described in the Missouri Public Service Company letter; correct? A. That appears to be the action taken, yes. Q. Okay. And you said you had reviewed the Missouri Public Service Company letter prior to your deposition today? A. Yes, I did. Q. And is it true that in that letter, Missouri Public Service Company was describing for Randy Raymond a series of activities that were proposed that would cost approximately 70 million dollars? MR HANSON: Objection, lack of foundation, document speaks for itself. THE WITNESS: There is a letter detailing different projects. I don't see the total. BY MR. BONEBRAKE: 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 available materials, you do not know why MDNR determined that no permit was required in this particular instance? A. No, there is no determination here. There is just the project closed out with that statement. (Exhibit No. 10 was marked for identification.) BY MR BONEBRAKE: Q. We're presenting to you an exhibit that's been marked No. 10 for identification. Again, this is a multi-page exhibit Bates-stamped No. AM00024786-MDNR through 797. See if you could take a look at that, please, for me. A. Okay. Q. One question related to the last exhibit before we – before we turn to this one, with respect to the Sibley project, I think you mentioned that the exhibit did not include that a actual formal applicability determination by MDNR, instead we had a record, a summary record so indicating. Would it be in all instances that MDNR would issue a formal applicability determination or are there instances in which the record would reflect no permit required without a formal letter from MDNR? A. In recent years, there would be a formal letter from us to the source. I can't speak for every
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 determine the status of the review? A. The way I would interpret this, because of the age of the project, is we didn't do any permit action and it was logged in as no permit required because we did not take any action. So because there's no determination, that was most likely a default in our system that no permit was issued or required, so. Q. But to your knowledge, no permit was required for this set of activities described in the Missouri Public Service Company letter; correct? A. That appears to be the action taken, yes. Q. Okay. And you said you had reviewed the Missouri Public Service Company letter prior to your deposition today? A. Yes, I did. Q. And is it true that in that letter, Missouri Public Service Company was describing for Randy Raymond a series of activities that were proposed that would cost approximately 70 million dollars? MR. HANSON: Objection, lack of foundation, document speaks for itself. THE WTINESS: There is a letter detailing different projects. I don't see the total. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 available materials, you do not know why MDNR determined that no permit was required in this particular instance? A. No, there is no determination here. There is just the project closed out with that statement. (Exhibit No. 10 was marked for identification.) BY MR BONEBRAKE: Q. We're presenting to you an exhibit that's been marked No. 10 for identification. Again, this is a multi-page exhibit Bates-stamped No. AM00024786-MDNR through 797. See if you could take a look at that, please, for me. A. Okay. Q. One question related to the last exhibit before we – before we turn to this one, with respect to the Sibley project, I think you mentioned that the exhibit did not include that a actual formal applicability determination by MDNR, instead we had a record, a summary record so indicating. Would it be in all instances that MDNR would issue a formal applicability determination or are there instances in which the record would reflect no permit required without a formal letter from MDNR? A. In recent years, there would be a formal

29 (Pages 110 to 113)

Case No. EF-2024-0021 Schedule CME-r8, Page 29 of 136

	Page 114		Page 116
1	preference to have a complete document and explanation on if	1	determination for MDNR as of the date of this letter?
2	we concurred or not rather than just one step being listed in	2	A. Yes.
3	our permit database because anyone could click this step in	3	Q. And does this letter indicate that no
4	the database and say no permit required just to close out the	4	construction permit of any kind was required for a proposed
5	project and take it off our active project list.	5	project for the replacement of the front half of the Thomas
6	So the older projects are it's very	6	Hill Unit 3 boiler floor?
7	difficult when there's not something from staff concurring	7	MR. HANSON: Objection, document speaks for
8	with what the source says. In recent years, we would have a	8	itself.
9	response. For - the main reason is the source wants that	9	THE WITNESS: Yes, it says no construction
10	response in writing from us. So there would be very limited	10	permit is required from the Missouri air pollution control
11	times when we would not respond in writing, especially in	11	program.
12	recent years. I'd say in the last 15 years.	12	BY MR. BONEBRAKE:
13	Q. Okay. So like I said, that suggests to me	13	Q. And that would include no PSD permit; correct?
14	that there might have been a formal letter or not, just not	14	A. Yes, that would have been the initial
15	clear at this point in time?	15	determination.
16	A. Since it was 1990, I – I mean, if there was a	16	Q. And the Thomas Hill plant was a major source
17	formal letter, obviously not a lot was electronic at that	17	at this time; is that correct?
18	time, so paper copy could have existed at one time, but	18	A. Yes.
19	it's it's hard to say because there's not anything in the	19	Q. And was Associated Electric Cooperative, Inc.
20	file at this point.	20	proposing this particular project because of wear and tear on
21	Q. By the way, I think you earlier mentioned that	21	boiler tubes in the front half of the Unit 3 boiler floor?
22	a violation notice had been issued to strike that.	22	MR. HANSON: Objection, lack of foundation.
23	All right. I'd like to turn to Exhibit	23	THE WITNESS: Their letters to us stated that
24	No. 10. Does this exhibit appear to relate to an	24	they're considering replacing the boiler floor to increase
25	applicability determination issued by MDNR via a May 15,	25	the durability of the boiler tubes. And they're requesting a
	Page 115		. Page 117
1	2004, letter to Associated Electric Cooperative, Inc.?	1	determination, yes.
2	A. Yes.	2	BY MR. BONEBRAKE:
3	Q. And did you review the documents that comprise	3	Q. And and based upon your review in
4	this exhibit in preparation for your deposition today?	4	preparation for this deposition, was there any indication
5	A. Yes, I did.	5	
6	Q. And on the third page of this – this exhibit,		in in MDNR's records that the tubes that were proposed to
		6	in in MDNR's records that the tubes that were proposed to be replaced had caused any outages or derates at Thomas Hill
7	which is the page containing the signature line for the MDNR		
7 8		6	be replaced had caused any outages or derates at Thomas Hill
	which is the page containing the signature line for the MDNR	6 7	be replaced had caused any outages or derates at Thomas Hill Unit No. 3?
8	which is the page containing the signature line for the MDNR letter, do you recognize the signature to be that of Randy	6 7 8	be replaced had caused any outages or derates at Thomas Hill Unit No. 3? A. I reviewed their letter and our letter. I did
8 9	which is the page containing the signature line for the MDNR letter, do you recognize the signature to be that of Randy Raymond?A. That's correct.Q. And was he the permit section chief at that	6 7 8 9	be replaced had caused any outages or derates at Thomas HillUnit No. 3?A. I reviewed their letter and our letter. I didnot see the e-mails prior to today. I don't see any
8 9 10	which is the page containing the signature line for the MDNR letter, do you recognize the signature to be that of Randy Raymond? A. That's correct.	6 7 8 9 10	be replaced had caused any outages or derates at Thomas Hill Unit No. 3?A. I reviewed their letter and our letter. I did not see the e-mails prior to today. I don't see any description of outages in this correspondence. Oh, here's
8 9 10 11	which is the page containing the signature line for the MDNR letter, do you recognize the signature to be that of Randy Raymond?A. That's correct.Q. And was he the permit section chief at that	6 7 8 9 10 11	 be replaced had caused any outages or derates at Thomas Hill Unit No. 3? A. I reviewed their letter and our letter. I did not see the e-mails prior to today. I don't see any description of outages in this correspondence. Oh, here's one in the e-mail. Oh, this is just when they want to
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30 (Pages 114 to 117)

Case No. EF-2024-0021 Schedule CME-r8, Page 30 of 136

		-	
	Page 118		Page 120
1	to us. They say in their letter we do not anticipate a	1	on documents so they would know that the our final
2	significant emissions increase. And it does not look like	2	determination.
3	there's any additional calculations so we would have relied	3	Q. Okay. We need to make sure our paper is well
4	on the source's communication on that.	4	organized here.
5	Q. But MDNR as the permitting authority would	5	(Exhibit No. 11 was marked for
б	make its own judgment call on whether or not emissions would	6	identification.)
7	be expected to increase; wouldn't they?	7	BY MR. BONEBRAKE:
8	A. We would review what is submitted and in some	8	Q. Okay. I'll present you with what's been
9	cases we would do our own calculations and in others we would	9	marked as Exhibit No. 11 for identification. This is another
10	accept the justification of the source. I don't see any	10	multi-page exhibit with Bates-stamp Nos. AM00025858-MDNR
11	spreadsheets on calculations here, so it appears that we	11	through 864.
12	accepted the source's statement.	12	A. Uh-huh. Okay.
13	Q. Okay. I notice in the cc listing on the	13	Q. And did you have a chance to to review any
14	second page of the MDNR letter, John Noedel is listed as a cc	14	of the pages that comprise this exhibit in connection with
15	recipient. Do you see that?	15	your preparation for the deposition today?
16	A. Yes.	16	A. Yes, I reviewed the letter.
17	Q. Who is John Noedel?	17	Q. The MDNR March 29, 2006, letter?
18	A. He works for EPA Region 7. At that time,	18	A. That's correct.
19	2004, he was most likely Missouri's permitting contact for	19	Q. Any of the other pages?
20	EPA Region 7.	20	A. No.
21	Q. Would that have included contact for PSD	21	Q. And based upon your review of the pages that
22	permitting issues?	22	comprise this exhibit, do all the pages appear to be related
23	A. Yes.	23	to MDNR's applicability determination letter of March 29,
24 25	Q. And do you know if there was any discussion	24	2006, to Associated Electric Cooperative, Inc.?
25	between MDNR and US EPA relating to the applicability	25	A. Yes.
	Page 119		Page 121
1	determination found in the May 15th, 2004, MDNR letter?	1	Q. And on the third page of this exhibit, which
2	A. Based on the e-mails, it appears that Kendall	2	is the second page of the MDNR applicability determination
3	did have phone conversations with John Noedel just because he		
		3	
4	· ·	3	letter, there's a signature line. Is that your signature,
	references John Noedel in one of the e-mails. But other than		letter, there's a signature line. Is that your signature, malam?
5	references John Noedel in one of the e-mails. But other than that, there's no specific details of the communication.	4	letter, there's a signature line. Is that your signature, ma'am? A. Yes, it is.
	references John Noedel in one of the e-mails. But other than	4 5	letter, there's a signature line. Is that your signature, malam?
5 6	references John Noedel in one of the e-mails. But other than that, there's no specific details of the communication. Q. Did – did US EPA ever object to the May 15th,	4 5 6	letter, there's a signature line. Is that your signature, malam? A. Yes, it is. Q. And what was your involvement with this applicability determination?
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31 (Pages 118 to 121)

Case No. EF-2024-0021 Schedule CME-r8, Page 31 of 136

	Page 122		Page 124
1	A. He was the staff member assigned to this	1	explain the replacing of the boiler floor, what that consists
2	project.	2	of. So that is their reasoning for why they are replacing.
3	Q. So would he have been the author of the	3	BY MR. BONEBRAKE:
4	letter?	4	Q. And did MDNR inquire of Associated Electric
5	A. Yes.	5	Cooperative, Inc. in connection with this applicability
б	Q. And you would have then reviewed - reviewed	6	assessment whether the boiler floor tubes the plant wanted to
7	the letter before signing?	7	replace had been causing outages or derates?
8	A. Yes.	8	A. There does not appear to be any discussion of
9	Q. And do you recall this particular letter	9	outages. There is a question on asking for more detail on
10	from from the time of its its creation?	10	what is being replaced.
11	A. Presented with it, I recall it. That was a	11	Q. And what page are you looking at?
12	few years ago and I sign a lot of letters, so.	12	A. Page 2 of the e-mail.
13	Q. But is it your standard practice to make sure	13	Q. There's a Bates-stamp number at the bottom.
14	that the the letter is accurate and correct before you	14	That's easiest way for us all to get to the same place.
15	sign it?	15	A. AM-00025862 MDNR.
16	MR. HANSON: Objection, vague and ambiguous.	16	Q. Thank you.
17	THE WITNESS: To the extent I can. As permit	17	A. It's an e-mail from Todd Van Cleave to Tom
18	section chief, I would have supervised approximately 30 staff	18	Tolbert at AECI.
19	members at that time.	19	Q. Uh-huh.
20	BY MR. BONEBRAKE:	20 21	A. Just asking to provide more detail on what
21 22	Q. Uh-huh.	21	exactly is being replaced, and there's a letter referenced,
22	A. So I cannot do all the technical review myself so I rely on the technical expertise of the staff and I would	23	but I don't see that, so. Q. And by the way, just let me make sure that
23 24	have done that in this case.	24	we're using common terminology, I've used the term "outage"
25	Q. And were you authorized as of March 29, 2006,	25	in connection with boiler in a couple of occasions during the
			in connection with coner in a couple of occurrons during the
	Page 123		. Page 125
1	to issue applicability determinations regarding construction	1	deposition.
2	permits on behalf of MDNR?	2	A. Uh-huh.
3	A. Yes.	3	
4	0 + 1 + 1 + 1 + 1 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =	3	Q. Do you have an understanding of what an outage
-	Q. And did the MDNR March 26th March 29, 2006,	4	means with respect to a coal-fired electric generating unit?
5	applicability determination relate to the proposed replacing	4 5	
6	applicability determination relate to the proposed replacing of the boiler floor on Thomas Hill Unit No. 2?	4 5 6	means with respect to a coal-fired electric generating unit? A. A general shutdown of the facility for whatever reason.
6 7	applicability determination relate to the proposed replacing of the boiler floor on Thomas Hill Unit No. 2? A. Yes.	4 5 6 7	means with respect to a coal-fired electric generating unit?A. A general shutdown of the facility for whatever reason.Q. And we've also used the term "derate." Do you
6 7 8	applicability determination relate to the proposed replacing of the boiler floor on Thomas Hill Unit No. 2?A. Yes.Q. And was the Thomas Hill plant a major source	4 5 6 7 8	 means with respect to a coal-fired electric generating unit? A. A general shutdown of the facility for whatever reason. Q. And we've also used the term "derate." Do you have an understanding of what that term means?
6 7 8 9	applicability determination relate to the proposed replacing of the boiler floor on Thomas Hill Unit No. 2?A. Yes.Q. And was the Thomas Hill plant a major source at that time?	4 5 6 7 8 9	 means with respect to a coal-fired electric generating unit? A. A general shutdown of the facility for whatever reason. Q. And we've also used the term "derate." Do you have an understanding of what that term means? A. A what?
6 7 8 9 10	applicability determination relate to the proposed replacing of the boiler floor on Thomas Hill Unit No. 2?A. Yes.Q. And was the Thomas Hill plant a major source at that time?A. Yes.	4 5 6 7 8 9 10	 means with respect to a coal-fired electric generating unit? A. A general shutdown of the facility for whatever reason. Q. And we've also used the term "derate." Do you have an understanding of what that term means? A. A what? Q. Derate.
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6 7 8 9 10 11 12 13 14 15 16 17	 applicability determination relate to the proposed replacing of the boiler floor on Thomas Hill Unit No. 2? A. Yes. Q. And was the Thomas Hill plant a major source at that time? A. Yes. Q. And did MDNR conclude that no construction permit of any kind would be required with respect to replacing the boiler floor on Thomas Hill Unit No. 2? A. Yes, that is the determination. Q. And based upon this letter and any other materials that you have reviewed either today or in preparation for this deposition, do you know why the Thomas 	4 5 6 7 8 9 10 11 12 13 14 15 16 17	 means with respect to a coal-fired electric generating unit? A. A general shutdown of the facility for whatever reason. Q. And we've also used the term "derate." Do you have an understanding of what that term means? A. A what? Q. Derate. A. No. Q. For purposes of my questions to you, derate would mean a reduction in the generating capacity of a of a unit A. Okay. Q based upon some operational issue or constraint at the unit.
6 7 8 9 10 11 12 13 14 15 16 17 18	 applicability determination relate to the proposed replacing of the boiler floor on Thomas Hill Unit No. 2? A. Yes. Q. And was the Thomas Hill plant a major source at that time? A. Yes. Q. And did MDNR conclude that no construction permit of any kind would be required with respect to replacing the boiler floor on Thomas Hill Unit No. 2? A. Yes, that is the determination. Q. And based upon this letter and any other materials that you have reviewed either today or in preparation for this deposition, do you know why the Thomas Hill plant was proposing to replace the boiler floor? 	4 5 6 7 8 9 10 11 12 13 14 15 16	 means with respect to a coal-fired electric generating unit? A. A general shutdown of the facility for whatever reason. Q. And we've also used the term "derate." Do you have an understanding of what that term means? A. A what? Q. Derate. A. No. Q. For purposes of my questions to you, derate would mean a reduction in the generating capacity of a of a unit A. Okay. Q based upon some operational issue or constraint at the unit. A. Okay.
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 applicability determination relate to the proposed replacing of the boiler floor on Thomas Hill Unit No. 2? A. Yes. Q. And was the Thomas Hill plant a major source at that time? A. Yes. Q. And did MDNR conclude that no construction permit of any kind would be required with respect to replacing the boiler floor on Thomas Hill Unit No. 2? A. Yes, that is the determination. Q. And based upon this letter and any other materials that you have reviewed either today or in preparation for this deposition, do you know why the Thomas Hill plant was proposing to replace the boiler floor? MR. HANSON: Objection, this document speaks for itself. 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 means with respect to a coal-fired electric generating unit? A. A general shutdown of the facility for whatever reason. Q. And we've also used the term "derate." Do you have an understanding of what that term means? A. A what? Q. Derate. A. No. Q. For purposes of my questions to you, derate would mean a reduction in the generating capacity of a of a unit A. Okay. Q based upon some operational issue or constraint at the unit. A. Okay. Q. The top of the second page of the the MDNR
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32 (Pages 122 to 125)

Case No. EF-2024-0021 Schedule CME-r8, Page 32 of 136

	Page 126		Page 128
1	what was meant by the phrase "increased utilization of the	1	A. Yes, I reviewed the March 5th, 2008, letter,
2	boiler?"	2	the DNR letter.
3	A. Based on the understanding at the time, the	3	Q. And does it appear to you that all of the
4	main emphasis most likely was to make sure that the	4	pages that comprise this exhibit relate to the applicability
5	replacement of the parts was not giving AECI more capacity or	5	determination set forth in the March 5th, 2008, MDNR letter?
6	more utilization as the the word states.	6	A. Yes.
7	Q. And capacity would be change in the production	7	Q. I got a question, first, for you on this page
8	capacity of the unit?	8	AM-00014353. It's the instruction from the fees worksheet.
9	A. Yes.	9	A. Yes.
10	Q. And the sentence I read also contains the	10	Q. And I've seen a few of these in the
11	phrase "will not result in an increase in emission?"	11	applicability determinations -
12	A. Yes.	12	A. Uh-huh.
13	Q. How did MDNR determine that no emission	13	Q. – and can you tell us what the – what the
14	increase would occur as a result of the proposed emission of	14	purpose of the - the worksheet is?
15	the boiler floor?	15	A. For many of our construction permit projects,
16	A. Again, based on the documents, it appears that	16	we are able to charge a fee of \$50 an hour for review time,
17	is what AECI committed to us and in lieu of emission	17	so we track – the permit writers track their time on a fee
18	calculations, I would say we accepted their submission that	18	sheet. It's evolved over the years to become more
19	no emissions were increasing.	19	electronic, but at one time, I also asked and we still do,
20 21	Q. And is it true that if MDNR had reason to	20 21	permit writers also track their time on applicability
21	believe that that position was incorrect, it would not have	21	determinations. We cannot charge fees for them, but it is
22	accepted Associated Electric Cooperative, Inc.'s submission on emissions?	23	useful to know how much staff time we're taking on permit determinations.
23	A. Yes, if they – the permit writer, in this	23	Q. So this particular worksheet, does it indicate
25	case Mike Van Cleave, thought there was some questions, he	25	to you that two hours were – were spent by a permit engineer
23	case mine van cleave, undern unde was some questions, ne		b you that two notes were – were spent by a permit engineer
	Page 127		. Page 129
1	could have done emission calculations, estimated himself.	1	on on the work related to the applicability determination?
2	Q. And similarly, you could have requested him to	2	A. Yes.
3	do so because you were signing the letter; right?	3	Q. And who was the assigned staff engineer?
4	A. Yes.	4	A. Tim Hines.
5	Q. And did you request that he do any additional	5	Q. And did Tim Hines write the March 5th, 2008,
б	calculations?	6	MDNR applicability determination letter?
7	A. No.	7	A. Yes.
8	Q. So you were willing to accept, then, the	8	Q. What was his position at the time?
9	company's position as well that the replacement of the boiler	9	A. Environmental engineer in the construction
10	floor would not increase submissions?	10	permit unit.
11	A. Based on my staff's recommendations, yes.	11	Q. Is he with MDNR at this time?
12	(Exhibit No. 12 was marked for	12	A. No, he is not.
13	identification.)	13	Q. Do you know where he's employed?
14	BY MR. BONEBRAKE:	14	A. He is not. He's retired.
15 16	Q. Okay. We're showing you what's been marked	15	Q. And page 2 of the MDNR letter contains a
16 17	Deposition Exhibit No. 12 for identification.	16 17	signature block?
18	A. Okay.Q. If you can take a look at that, please.	18	A. Yes.
10	Q. If you can take a look at that, please.A. Yes.	19	Q. Is that your signature? A. Yes.
20	A. Tes.Q. Have you had a chance to take a look at that	20	Q. What was your involvement with this
20	exhibit?	20	applicability determination?
22	A. Yes.	22	A. I was the permit section chief at the time so
23	Q. And did you have a chance to review the pages	23	I signed this letter drafted based on technical staff
24	that comprise this exhibit in preparation for your – for the	24	recommendation.
25	deposition today?	25	Q. And were you authorized as of the date of this

33 (Pages 126 to 129)

Case No. EF-2024-0021 Schedule CME-r8, Page 33 of 136

	Jetterson	city, i	
	Page 130		Page 132
1	letter to issue applicability determinations regarding	1	expertise at the moment, but that sounds familiar.
2	construction permitting on behalf of MDNR?	2	Q. How did MDNR determine that the proposed
3	A. Yes.	3	modification would not increase emissions?
4	Q. And was the MDNR's determination as set forth	4	A. Again, based on the review of this project
5	in the March 5th, 2008, letter that no construction permit of	5	file, it appears that that is what Aquila at the time, who
6	any kind would be required with respect to the proposed	6	owned this plant, submitted. And the technical staff's
7	project on Unit 3 at the Sibley generating station?	7	expertise, and that was his statement and recommendation.
8	A. Yes.	8	Q. So MDNR accepted the position that the new
9	Q. And what was that proposed project?	9	boiler nose would not increase emissions?
10	A. It states that proposed project consists of	10	A. Yes.
11	changing the shape to form a dam or boiler nose in front of	11	Q. The last sentence in that paragraph reads,
12	the screen tubes.	12	this proposed construction or modification will not emit any
13	Q. And do you know, was that a change in design	13	pollutants. Does that indicate that the tubes the new
14	from the facility's original design?	14	tubes themselves would not emit any pollutants?
15	MR. HANSON: Objection.	15	MR. HANSON: Objection, I think that misstates
16	THE WITNESS: Since they're changing the shape	16	the document.
17	of the tube, I would assume that it is a – could be equated	17	THE WITNESS: It in my opinion, the
18	to a change of design, so.	18	statement is self-explanatory. It just says that the
19	BY MR. BONEBRAKE:	19	proposed construction will not emit pollutants, so the
20	Q. And are you familiar with the Sibley	20	description of the construction, the tubes shaping to form a
21	generating station in Missouri?	21 22	dam or boiler nose.
22	A. Yes.		BY MR. BONEBRAKE:
23 24	Q. And is it a major source?	23 24	Q. So does – does that mean that the – the new
24 25	A. Yes.Q. Do you know if the – based upon your review	24	tubes would not emit any pollutants? A. That's what this letter is stating, that the
20	Q. Do you know ii ule – based upon you review	25	A. That's what units letter is stating, that the
	Page 131		Page 133
1	of of documents or other information in preparation for	1	proposed construction will not emit any pollutants.
	the deposition today, if the proposed project was intended to		
2	ule deposition today, il ule proposed project was interficed to	2	O. Is that relevant to the modification inquiry?
2 3		2	Q. Is that relevant to the modification inquiry?A. I'm not sure I understand your question.
	increase the efficiency of the boiler at Unit 3 at the Sibley		Q. Is that relevant to the modification inquiry?A. I'm not sure I understand your question.Q. Is the the fact that the new tubes will not
3		3	A. I'm not sure I understand your question.
3 4	increase the efficiency of the boiler at Unit 3 at the Sibley generating station?	3 4	A. I'm not sure I understand your question.Q. Is the the fact that the new tubes will not
3 4 5	increase the efficiency of the boiler at Unit 3 at the Sibley generating station? A. There is not enough information in the	3 4 5	A. I'm not sure I understand your question.Q. Is the the fact that the new tubes will not emit any pollutants relevant to the determination of whether
3 4 5 6	increase the efficiency of the boiler at Unit 3 at the Sibley generating station?A. There is not enough information in the documents to answer that.	3 4 5 6	 A. I'm not sure I understand your question. Q. Is the the fact that the new tubes will not emit any pollutants relevant to the determination of whether the proposed project would be a modification?
3 4 5 6 7	increase the efficiency of the boiler at Unit 3 at the Sibley generating station?A. There is not enough information in the documents to answer that.Q. Do you have a recollection of this particular	3 4 5 6 7	 A. I'm not sure I understand your question. Q. Is the the fact that the new tubes will not emit any pollutants relevant to the determination of whether the proposed project would be a modification? MR. HANSON: Objection, vague and ambiguous.
3 4 5 6 7 8	increase the efficiency of the boiler at Unit 3 at the Sibley generating station?A. There is not enough information in the documents to answer that.Q. Do you have a recollection of this particular applicability determination?	3 4 5 6 7 8	 A. I'm not sure I understand your question. Q. Is the the fact that the new tubes will not emit any pollutants relevant to the determination of whether the proposed project would be a modification? MR. HANSON: Objection, vague and ambiguous. THE WITNESS: I mean, I don't there's not a
3 4 5 7 8 9	 increase the efficiency of the boiler at Unit 3 at the Sibley generating station? A. There is not enough information in the documents to answer that. Q. Do you have a recollection of this particular applicability determination? A. Not anything more specific than the letter. 	3 4 5 6 7 8 9	 A. I'm not sure I understand your question. Q. Is the the fact that the new tubes will not emit any pollutants relevant to the determination of whether the proposed project would be a modification? MR. HANSON: Objection, vague and ambiguous. THE WITNESS: I mean, I don't there's not a lot of information, obviously not a lot of time was spent by
3 4 5 7 8 9 10	 increase the efficiency of the boiler at Unit 3 at the Sibley generating station? A. There is not enough information in the documents to answer that. Q. Do you have a recollection of this particular applicability determination? A. Not anything more specific than the letter. Q. In the – I'd like to ask a couple questions relating to the second paragraph, which starts with, according to your letter. And the third sentence reads, this 	3 4 5 6 7 8 9 10	 A. I'm not sure I understand your question. Q. Is the the fact that the new tubes will not emit any pollutants relevant to the determination of whether the proposed project would be a modification? MR. HANSON: Objection, vague and ambiguous. THE WITNESS: I mean, I don't there's not a lot of information, obviously not a lot of time was spent by the permit review engineer, so I I would say that that
3 4 5 6 7 8 9 10 11 12 13	 increase the efficiency of the boiler at Unit 3 at the Sibley generating station? A. There is not enough information in the documents to answer that. Q. Do you have a recollection of this particular applicability determination? A. Not anything more specific than the letter. Q. In the I'd like to ask a couple questions relating to the second paragraph, which starts with, according to your letter. And the third sentence reads, this proposed modification to create a boiler nose will not 	3 4 5 6 7 8 9 10 11	 A. I'm not sure I understand your question. Q. Is the the fact that the new tubes will not emit any pollutants relevant to the determination of whether the proposed project would be a modification? MR. HANSON: Objection, vague and ambiguous. THE WITNESS: I mean, I don't there's not a lot of information, obviously not a lot of time was spent by the permit review engineer, so I I would say that that he did use that as a determination. BY MR. BONEBRAKE: Q. And so the permit engineer I want to make
3 4 5 7 8 9 10 11 12 13 14	 increase the efficiency of the boiler at Unit 3 at the Sibley generating station? A. There is not enough information in the documents to answer that. Q. Do you have a recollection of this particular applicability determination? A. Not anything more specific than the letter. Q. In the – I'd like to ask a couple questions relating to the second paragraph, which starts with, according to your letter. And the third sentence reads, this proposed modification to create a boiler nose will not increase maximum heat input or emissions in any criteria 	3 4 5 6 7 8 9 10 11 12 13 14	 A. I'm not sure I understand your question. Q. Is the the fact that the new tubes will not emit any pollutants relevant to the determination of whether the proposed project would be a modification? MR. HANSON: Objection, vague and ambiguous. THE WITNESS: I mean, I don't – there's not a lot of information, obviously not a lot of time was spent by the permit review engineer, so I I would say that that he did use that as a determination. BY MR. BONEBRAKE: Q. And so the permit engineer I want to make sure I understood what you just said. Did the permit
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34 (Pages 130 to 133)

Case No. EF-2024-0021 Schedule CME-r8, Page 34 of 136

_	Page 134		Page 136
1	two hours that were spent by the project engineer on this	1	exhibit, which is part of 10-6.060, section 1.
2	project; is that right?	2	A. Yes.
3	A. Yes.	3	Q. And we talked a little bit earlier this
4	Q. And does that indicate to you that this was a	4	morning about section 1, which is the applicability section.
5	fairly easy determination for MDNR?	5	A. Right.
б	MR. HANSON: Objection, vague and ambiguous.	6	Q. And we talked about 1(C). Id like to now
7	THE WITNESS: I don't know easy. It, on the	7	talk about 1(E), which is entitled excluded activities. And
8	surface, the applicant described what they were doing and we	8	do you see that? That's in the bottom of the middle column
9	concurred with it. So based on the technical staffs	9	on page 21.
10	knowledge, it was a reasonable claim and so they drafted the	10	A. Okay.
11	response.	11	Q. And there are a number of subparts for
12	BY MR. BONEBRAKE:	12	excluded activities.
13	Q. And by this point in time, MDNR had issued, as	13	A. Right.
14	we've seen, a number of applicability determinations to power	14	Q. And do you know, was the excluded activities
15	generators indicating that boilers tube replacement and	15	provision in the Missouri construction permitting rules added
16	change would not be a modification; correct?	16	in in the mid-1990s to the construction permit rules?
17	MR. HANSON: Objection, lack of foundation,	17	MR. HANSON: Objection, the rulemaking would
18	vague and ambiguous.	18	speak for itself.
19	THE WITNESS: I don't know if Tim Hines relied	19	THE WITNESS: I don't know the exact date of
20	on those past determinations or not or just on his knowledge	20	when this particular section was added.
21	of this project in this circumstance.	21	BY MR. BONEBRAKE:
22	BY MR. BONEBRAKE:	22	Q. Were the – were the exclusions set forth in
23	Q. A – a source can propose either to replace an	23	1(E) in place in the rules at the time that you were working
24	entire emission unit or something with within an emission	24	as a permit engineer at MDNR starting in 1999?
25	unit; right?	25	A. Yes.
	Page 135		Page 137
1	A. Uh-huh.	1	Q. And do you know what the intention was behind
2	Q. In instances where a source proposes to	2	adding excluded activities section to the construction permit
3	replace something within a unit as opposed to the whole unit,	3	rules?
4	has MDNR considered in making applicability determinations	4	A. I don't know the intention at the time this
5	whether the particular equipment changed within the unit	5	was added. We do have a similar section in our current
б	itself emits or has the potential to emit?	6	rules, though it's in a different location. It's in 6.061.
7	MR. HANSON: Objection, lack of foundation.	7	And our interpretation of the intention now is that these
8	THE WITNESS: Without reviewing every single	8	would be excluded activities. If the source does not trigger
9	file we do, I would say that probably fits something that we	9	a PSD permit, then this is another opportunity for exemptions
10	have done, but without a specific example, I couldn't speak	10	from permitting.
11	to that.	11	Q. You indicated that that's the intention now?
12	BY MR. BONEBRAKE:	12	A. Yes.
13	Q. Can you describe what you have in mind? It	13	Q. Which implied to me that the intention has
14	sounds like you have something in mind that - that would fit	14	had changed from some prior time. Is my surmise from your
15	that description.	15	answer correct?
16	A. I don't have anything in mind.	16	A. Well, I was just responding to your question
17	Q. Okay. All right. I'd like to draw your	17	on what was the intention for this in the rule. I I can't
18	attention back to Missouri Rule 1996 edition that we were	18	speak to why this was added at the time, but how we interpret
19	talking about earlier.	19	it now. That was my attempt to answer your question without
20	MR. BONEBRAKE: And David, what exhibit is	20	knowing what was going on in 1996.
21	this?	21	Q. And and when you say now, you mean as the
22	MR. LORING: Exhibit 6.	22	excluded activities are included in 6.061?
23	BY MR. BONEBRAKE:	23	A. Yes.
24 25	Q. Exhibit 6. Thank you. And specifically, page	24	Q. And and has MDNR's interpretation of the
25	21 of that exhibit. I should say it's page 21 of that	25	excluded activities now set forth in Section 061 changed from

35 (Pages 134 to 137)

Case No. EF-2024-0021 Schedule CME-r8, Page 35 of 136

	Page 138		Page 140
1	when those excluded activities were set forth in Section 060?	1	in 1(F); is that correct?
2	A. The first part of the question was?	2	MR. HANSON: Objection, same objection.
3	Q. Has there been a change in MDNR	3	THE WITNESS: It says replacement of engines,
4	interpretation?	4	compressors or turbines as part of a normal maintenance
5	A. Not that I'm aware of, no.	5	program, yes.
6	Q. Let's talk a little bit about about	6	BY MR. BONEBRAKE:
7	excluded activities section	7	Q. So has it been MDNR's position that boiler
8	A. Okay.	8	tube and turbine replacements are not expected to have an
9	Q. – then in E, and I'm going to come back, I	9	impact on the potential emissions of a unit or on air
10	think, and ask you some questions later on	10	quality?
11	A. Okay.	11	A. In this context of excluded activities from
12	Q about the interpretation. E(1) is an	12	minor source permitting, yes.
13	exclusion for routine routine maintenance parts,	13	(Exhibit No. 13 was marked for
14	replacement or relocation of emission units. And it goes on	14	identification.)
15	from there; correct?	15	BY MR. BONEBRAKE:
16	A. Uh-huh, yes.	16	Q. Showing you what's been marked as Deposition
17	Q. And subparts A through F are examples of	17	Exhibit No. 13 for identification, if you could take a look
18	changes that are deemed by the rule to be routine maintenance	18	at that, please.
19	parts, replacement or relocation of emission units; right?	19	A. Okay.
20	A. They are examples given, yes.	20	Q. And you've had a chance to take a look at this
21	Q. And by virtue of their being listed as	21	exhibit?
22	examples, MDNR is also in this rule determining that they	22	A. Yes.
23	would not have an expected impact on either the potential to	23	Q. And were you able to strike that.
24	emit or air quality; correct?	24	Did you have an opportunity to to review
25	MR. HANSON: Objection, the document speaks	25	any pages that comprised this exhibit in preparation for your
	Page 139		. Page 141
1	Page 139 for itself.	1	deposition today?
1 2	2	2	·
	for itself.	2 3	deposition today?
2	for itself. THE WITNESS: Basically this rule is stating	2 3 4	deposition today? A. I think I might have seen the October 10th, 2001 letter, but none of the rest of the documents. Q. You're referring to MDNR's October 10, 2001
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36 (Pages 138 to 141)

Case No. EF-2024-0021 Schedule CME-r8, Page 36 of 136

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	Page 142		Page 144
1	Q. And Tech Systems in its June 6th, 2001, letter	1	determination; is that correct?
2	to MDNR was asking for a PSD applicability determination with	2	A. I do believe Lake City is a major source, yes.
3	respect to proposed work on the boilers at its Alliant Lake	3	Q. So MDNR determined based upon the excluded
4	City Small Caliber Ammunition plant; correct?	4	activities provision found in section 6.060(1)(E)(1) that a
5	MR. HANSON: Objection, the document speaks	5	major source do not require a PSD permit because the proposed
6	for itself.	6	project was routine maintenance; is that correct?
7	BY MR. BONEBRAKE:	7	MR. HANSON: Objection, this document speaks
8	Q. And MDNR's October 10, 2001, letter to Alliant	8	for itself.
9	Tech Systems was a response to that applicability	9	THE WITNESS: That is what the letter states,
10	determination request; is that correct?	10	yes.
11	MR. HANSON: Same objection.	11	BY MR. BONEBRAKE:
12	THE WITNESS: Yes.	12	Q. Now you were earlier mentioning when I was
13	BY MR. BONEBRAKE:	13	asking you questions about section 1(E) that the excluded
14	Q. And MDNR determined that no construction	14	activities section was related to minor source permit.
15	permit of any kind would be required for the project proposed	15	A. Yes.
16	by Alliant Tech Systems, Inc. as described in Tech System	16	Q. But this is an MDNR October 10th, 2001, letter
17	Inc.'s letter; is that correct?	17	was a major NSR applicability determination, was it not?
18	MR. HANSON: Objection, same objection.	18	A. When you talk about major applicability, we
19	THE WITNESS: Yes.	19	we probably have different terms. If a PSD permit was not
20	BY MR. BONEBRAKE:	20	required, then the next step is do they require a minor
21	Q. The MDNR letter has a signature block for	21	permit, which is when we would use this exclusion because the
22	Randy Raymond, do you see that?	22	excluded activities under (E) is not allowed for if a PSD
23	A. Yes.	23	permit is required. And that's in (F), exception to excluded
24	Q. Does that appear to you to be Randy Raymond's	24	activities.
25	signature?	25	So if the activity would be subject to PSD,
	Page 143		Page 145
1	A. Yes.	1	then these excluded activities are not. So it was my
2	Q. And was he permit section chief as of 2001?	2	interpretation of this letter is that it was determined the
3	A. Yes.	3	activity was not triggered – a PSD permit was not triggered
4	Q. And was he authorized as of 2001 to issue	4	and therefore they applied the exemption under the excluded
5	applicability determinations for MDNR?	5	activities of 6.060(1)(E).
6	A. Yes.	6	Q. Where in – where in this letter do you see an
7	Q. The third paragraph of MDNR's October 10,	7	indication that there was a PSD applicability determination
8	2001, letter, first sentence reads, upon review of all of the	8	other than by reference to the boiler tube - boiler tube
9	information submitted by LCAAP, the APCP has determined that	9	exclusion or other exclusion in section 6.0601)(E)(1)?
10	this project constitutes, quote, routine maintenance, end	10	A. I am drawing the conclusion that because they
11	quote, which is an excluded activity under Missouri State	11	reference this rule, that they had determined that a PSD
12	Rule 10 CSR 10-6.0 6.060(1)(E)(1). Do you see that?	12	permit was not required and therefore they could use this
13	A. Yes.	13	exemption.
14	Q. And that is the routine maintenance provision	14	Q. Are you aware of a separate applicability
15	of the excluded activities section of Missouri's construction	15	determination with respect to this project?
16	permitting rules, is it not? And if you would like to take a	16	A. No.
17	look at the Missouri construction permit rules, please do so.	17	Q. So that's your inference based upon your
18	I think it's page 21.	18	current interpretation of the Missouri rules?
19	A. Okay. I'm sorry?	19	A. Yes.
20	Q. Page 21 of the rules. And the letter	20	Q. Are you aware of whether – well, strike that.
21	references $6.060(1)(E)(1)$.	21	I think we'll get to the related questions when we get to
22	A. That is the correct citation for that, yes.	22	some related documents.
23	Q. So MDNR was determining strike that.	23	A. Okay.
24	The Lake City Ammunition – Army Ammunition	24	MR. BONEBRAKE: We're about 12:30, so why
25	plant was a major source requesting an applicability	25	don't we go off the record and take a lunch break.
1	, J I C II		0

37 (Pages 142 to 145)

Case No. EF-2024-0021 Schedule CME-r8, Page 37 of 136

	Page 146	Page 148
1		
2	MR. HANSON: Okay. VIDEOGRAPHER: We're off the record. It's	1 Q. And Mr. Noedel, I think we discussed this 2 morning, is still with Region 7; is that correct?
3	12:34.	3 A. Yes.
4	(A lunch break was held.)	4 Q. And do you know, is he Region 7's NSR
5	VIDEOGRAPHER: We are back on the record after	5 coordinator?
6	a lunch break. It's 1:48 p.m.	6 A. He does a lot with NSR. I don't know if he's
7	BY MR. BONEBRAKE:	 7 termed the NSR coordinator, what his role is right now.
8	Q. Good afternoon.	8 Q. The first sentence of the top e-mail from John
9	A. Yes.	9 Noedel reads, I think the agency generally acknowledges that
10	Q. I had a couple of follow-up questions from	10 boiler tube replacement is routine; therefore, not a
11	this morning's discussion before turning to some new issues.	11 modification. Do you see that?
12	One is I – I realized when I – when I was going back over	12 A. Yes.
13	my notes that I – I didn't ask at all about your – your	13 Q. And would you agree with me that in light of
14	education and I just was kind of curious about that. Do you	14 the the author and recipient of this e-mail, that the
15	have a college degree?	15 agency at issue in this e-mail is US EPA?
16	A. I do. I have a bachelor's in chemical	16 MR. HANSON: Objection, the document speaks
17	engineering from the University of Missouri-Columbia.	17 for itself.
18	Q. And do you have any post-graduate degrees?	18 THE WITNESS: John works for EPA, so if he's
19	A. No.	19 responding as his employer, the agency, I'd say yes.
20	Q. And are you a PE?	20 BY MR. BONEBRAKE:
21	A. No.	21 Q. And were you aware back in the time frame that
22	Q. We were talking this morning about	22 you started working with with MDNR back in 1999, of an US
23	applicability determinations issued by MDNR. Is it MDNR's	23 EPA position that boiler tube replacement was routine?
24	understanding that sources that receive those determinations	24 A. No.
25	will rely upon them?	25 Q. Do you know if since 1997, US EPA and NSR
	Page 147	Page 149
1	A. Yes.	1 enforcement litigation has offered a different view, that is
2	(Exhibit No. 14 was marked for	2 boiler tube replacement is not routine?
3	identification.)	3 MR. HANSON: Objection, lack of foundation.
4	BY MR. BONEBRAKE:	4 THE WITNESS: I don't recall if it's that
5	Q. And I'll hand you what's been marked as	5 specific. I would say with a lot of things that we do,
6	Deposition Exhibit No. 14 for identification. Take a moment	6 interpretations change and evolve with regulations. So I
7	and take a look at that, please.	7 can't speak to that.
8	A. Okay.	8 BY MR. BONEBRAKE:
9 10	Q. Have you had a chance to take a look at the	9 Q. The second sentence refers to increased
	document?	10 deficiency of the turbine. And again, we're at the top
11 12	A. Yes. O Have you seen this document before?	11e-mail. Do you see that?12A. Yes.
13	Q. Have you seen this document before?A. No.	12 A. Yes. 13 Q. And the third sentence says, they may produce
14	Q. We talked this morning about a John Noedel at	15 Q. And the unit sentence says, they may produce 14 more electricity per unit than fuel, but that seems like a
15	Region 7.	15 good thing. Does MDNR believe that efficiency improvements
16	A. Yes.	16 are a good thing for power plants?
17	Q. Is that John Noedel's name spelled as the same	17 A. Sure. I mean, efficiency improvements in –
± /		
18	as the the name indicated in the from box?	18 in most things are good.
	as the – the name indicated in the from box? A. Yes.	 in most things are good. Q. And why would they be good for a power
18		6 6
18 19	A. Yes.	19 Q. And why would they be good for a power
18 19 20	A. Yes.Q. And do you recognize the name Dan Rodriguez?A. Yes.Q. And who is Dan Rodriguez?	19Q. And why would they be good for a power20generator?
18 19 20 21	A. Yes.Q. And do you recognize the name Dan Rodriguez?A. Yes.	19Q. And why would they be good for a power20generator?21A. Well, in in most cases, if you're more
18 19 20 21 22	A. Yes.Q. And do you recognize the name Dan Rodriguez?A. Yes.Q. And who is Dan Rodriguez?	19 Q. And why would they be good for a power 20 generator? 21 A. Well, in in most cases, if you're more 22 efficient, then you are using less resources. I just equate

38 (Pages 146 to 149)

Case No. EF-2024-0021 Schedule CME-r8, Page 38 of 136

	Page 150		Page 152
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1	make on that.		sign applicability determinations on behalf of MDNR?
2	Q. And do you know as of 1997, if US EPA had a	2	A. Yes.
3	protocol on the process for making routine determinations?	3	Q. And who was the involved engineering staff
4	MR. HANSON: I'm sorry, I didn't hear the	4	on on this project?
5	question.	5	A. Lina Kline drafted the letter.
6	MR. BONEBRAKE: If EPA had a protocol in the	6 7	Q. And that's L-i-n-a-?
7	process for making routine determinations.		A. Yes.
8	MR. HANSON: Objection, lack of foundation.	8	Q. And is she still with MDNR?
9	THE WITNESS: A protocol, I'm not sure I would	9	A. No, she is with Fred Weber.
10	call it a protocol. There is a document there is a	10 11	Q. Okay. I think you mentioned that this
11	database of many documents on many different topics and so		morning. Thank you.
12	that would probably be addressed in their database, their	12	This MDNR determination via the December 23,
13	analysis on routine or any other subject.	13	2003, letter indicates that no construction permit of any
14	(Exhibit No. 15 was marked for	14	kind is required for the replacement of boiler tubes that was
15	identification.)	15	replaced – that was proposed by Columbia Municipal Power
16	BY MR. BONEBRAKE:	16	Plant; right?
17	Q. We're presenting to you what's been marked as	17	A. That's correct.
18	Deposition Exhibit No. 15 for identification, if you could	18	Q. And this municipal – strike that.
19	take a look at that, please.	19	The proposed project was described in Shell
20	A. Okay.	20	Engineering's letter of November 7, 2003, to Ms. Kyra Moore
21	Q. Did you review any of the documents that	21	and I'm looking at Bates-stamp AM00025847-MDNR?
22	comprise this exhibit in preparation for MDNR's deposition	22	A. Yes, that's correct.
23	today?	23	Q. That's correct?
24	A. I did see the MDNR letter December 23rd, 2003.	24	A. Yes.
25	I have not reviewed the others, but recently, but I did at	25	Q. And based upon your review of the documents,
	Page 151		. Page 153
1	the time of the project issuance.	1	what was the project that was proposed for MDNR's
1 2	the time of the project issuance. Q. So you're you're referring to the December	2	what was the project that was proposed for MDNR's determination?
	 the time of the project issuance. Q. So you're – you're referring to the December 23, 2003, letter from MDNR to Mr. Tad Johnson at the Columbia 	2 3	what was the project that was proposed for MDNR's determination? A. It is the replacing of boiler tubes on the
2 3 4	the time of the project issuance. Q. So you're you're referring to the December	2 3 4	what was the project that was proposed for MDNR's determination? A. It is the replacing of boiler tubes on the back wall and lower part of the economizer of Boiler No. 7 at
2 3	the time of the project issuance. Q. So you're you're referring to the December 23, 2003, letter from MDNR to Mr. Tad Johnson at the Columbia Municipal Power Plant? A. Yes.	2 3 4 5	what was the project that was proposed for MDNR's determination? A. It is the replacing of boiler tubes on the back wall and lower part of the economizer of Boiler No. 7 at the Columbia Power Plant.
2 3 4 5 6	the time of the project issuance. Q. So you're you're referring to the December 23, 2003, letter from MDNR to Mr. Tad Johnson at the Columbia Municipal Power Plant? A. Yes. Q. And that related to project number	2 3 4 5 6	 what was the project that was proposed for MDNR's determination? A. It is the replacing of boiler tubes on the back wall and lower part of the economizer of Boiler No. 7 at the Columbia Power Plant. Q. And the cost information in paragraph three in
2 3 4 5 6 7	the time of the project issuance. Q. So you're you're referring to the December 23, 2003, letter from MDNR to Mr. Tad Johnson at the Columbia Municipal Power Plant? A. Yes.	2 3 4 5 6 7	 what was the project that was proposed for MDNR's determination? A. It is the replacing of boiler tubes on the back wall and lower part of the economizer of Boiler No. 7 at the Columbia Power Plant. Q. And the cost information in paragraph three in the first page of the December 23, 2003 letter, is that
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2 3 4 5 6 7 8 9	 the time of the project issuance. Q. So you're you're referring to the December 23, 2003, letter from MDNR to Mr. Tad Johnson at the Columbia Municipal Power Plant? A. Yes. Q. And that related to project number 2003-11-040; correct? A. That's correct. Q. And does it appear to you based upon your 	2 3 4 5 6 7 8 9	 what was the project that was proposed for MDNR's determination? A. It is the replacing of boiler tubes on the back wall and lower part of the economizer of Boiler No. 7 at the Columbia Power Plant. Q. And the cost information in paragraph three in the first page of the December 23, 2003 letter, is that accurate cost information, to your knowledge? A. To my knowledge, we would have received that
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 the time of the project issuance. Q. So you're – you're referring to the December 23, 2003, letter from MDNR to Mr. Tad Johnson at the Columbia Municipal Power Plant? A. Yes. Q. And that related to project number 2003-11-040; correct? A. That's correct. Q. And does it appear to you based upon your review of these documents that all the documents that comprise this exhibit relate to the applicability determination set forth in MDNR's December 23, 2003 letter? A. Yes. Q. And the second page of MDNR's December 23, 2003, letter there's a signature block? A. Yes. Q. And is that your signature? A. Yes. Q. And what was your involvement with this applicability determination? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 what was the project that was proposed for MDNR's determination? A. It is the replacing of boiler tubes on the back wall and lower part of the economizer of Boiler No. 7 at the Columbia Power Plant. Q. And the cost information in paragraph three in the first page of the December 23, 2003 letter, is that accurate cost information, to your knowledge? A. To my knowledge, we would have received that cost analysis from the source, most likely, so yes. Q. In the second paragraph of the first page of the MDNR letter – A. Uh-huh. Q. – there's a sentence I want to talk with you about, it's the last sentence of that paragraph. A. Yes. Q. And it reads, replacement of the boiler tubes is considered to be routine maintenance by the state of Missouri and is excluded from permitting per Missouri state rule 10 CSR 10-6.061(3)(B)(1)(d). Now that's the boiler tube
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39 (Pages 150 to 153)

Case No. EF-2024-0021 Schedule CME-r8, Page 39 of 136

	Page 154		Page 156
1	permit, was required because boiler tube projects are routine	1	it did not trigger under the definitions in our section 8
2	under that exclusion of the Missouri rules?	2	rules or definition of major modification. It did not
3	A. That's a full question, so I'm going to answer	3	trigger a PSD analysis.
4	it in pieces. We would have determined that the project did	4	Q. So if I'm hearing you correctly, you're saying
5	not trigger PSD permitting and then therefore would have	5	that there's a determination for PSD non-applicability, the
б	turned to our 6.061 rule to determine if it needed a minor	6	basis for which is nowhere set forth in this letter?
7	source permit for any reason, and that is the exemption that	7	A. Well, the basis is the knowledge of technical
8	is listed here, that it falls under that exemption. So yes,	8	staff to know that what they're looking at is not triggering
9	no permit is required.	9	PSD.
10	Q. Are you suggesting that there was a separate	10	Q. And as the representative of MDNR at this
11	or different applicability determination for PSD that's not	11	deposition, what knowledge of engineering staff informed them
12	set forth in this March 23, 2003, letter?	12	that no PSD permit would be required for this boiler project?
13	A. No.	13	A. The knowledge that they acquired on the job
14	Q. So if the non-applicability determination for	14	and working in the permit section and reviewing permit
15	PSD is found in this letter, where do you see that	15	projects and knowing what PSD regulations require.
16	determination, other than by reference to the boiler tube	16	Q. Is there any document that sets forth the
17	exclusion?	17	basis for the MDNR's determination that no PSD permit was
18	A. It's inferred in that we were doing a no	18	required?
19	construction permit required letter for a major source,	19	A. This is the document that sets that forth.
20	therefore it was inferred that a PSD permit is not required.	20	Q. And you're referring to the general statement
21	Then we would go forward to determine if a minor source	21	that no construction permit is required
22	permit is required, and that's what the next step is. So	22	A. Yes.
23	it's all part of the same applicability process.	23	Q which includes no PSD permit?
24	Q. So – so you're inferring that there was a PSD	24	A. Yes.
25	non-applicability determination not set forth in the	25	Q. But is there $a - is$ there $a - I$ guess my
	Page 155		, Page 157
1	December 23, 2003, letter?	1	question, then, for you, is: Is there any document that sets
2	A. I'm inferring that it's all-inclusive, that in	2	forth the rationale for the conclusion that there is no PSD
3	order for us to use our exemptions in 6.061 on a major	3	permit required for this project?
4	source, we're talking this project itself is not subject to	4	A. Well, the permit writer would review what's
5	PSD and therefore we can use the 6.061 exemption.	5	being done and the activity and determine if this activity
6	Q. Okay.	6	would trigger PSD permitting. And in this case, she
7	A. It's semantics, but that's our interpretation	7	determined it did not and moved forward with the no permit
8	of it currently.	8	required.
9	Q. Well, what do you mean by by "currently?"	9	Q. In the second to last paragraph on the first
10	A. That's how we issue our applicability	10	page of the MDNR letter, there's a reference to EPA's routine
		1 11	
11	determinations.	11	maintenance repair and replacement guidance. Do you see
11 12	determinations. Q. What about back in 2003, the date of this	12	maintenance repair and replacement guidance. Do you see that?
12	Q. What about back in 2003, the date of this letter? A. That – that is the inference just because we	12	that?
12 13	Q. What about back in 2003, the date of this letter?	12 13	that? A. Yes.
12 13 14	Q. What about back in 2003, the date of this letter?A. That – that is the inference just because we	12 13 14 15 16	that? A. Yes. Q. To what guidance were you referring to?
12 13 14 15	 Q. What about back in 2003, the date of this letter? A. That – that is the inference just because we reference 6.061. There is a paragraph as we saw earlier in 	12 13 14 15	that?A. Yes.Q. To what guidance were you referring to?A. Well, the consultant for the Columbia power
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12 13 14 15 16 17 18 19 20 21 22 23	 Q. What about back in 2003, the date of this letter? A. That – that is the inference just because we reference 6.061. There is a paragraph as we saw earlier in 6.061 that it cannot be utilized if it's a project subject to our Section 7, 8, or 9, which is our major source permitting rules. So by inference, because we are using 6.061, then we are assuming this is not a PSD project and citing the 6.061 exemption – Q. Okay. A. – from any other permit needed. Q. And then what was the basis for MDNR's 	12 13 14 15 16 17 18 19 20 21 22 23	 A. Yes. Q. To what guidance were you referring to? A. Well, the consultant for the Columbia power plant requested that we agree with our opinion that this falls under EPA's routine maintenance repair and replacement guidance. At one time, there was a proposed rule, but I believe it was never finalized and I'm assuming that's the guidance they're referring to. Q. Can we take a look at the Shell letter – A. Yes. Q. – in page AM00025847?

40 (Pages 154 to 157)

Case No. EF-2024-0021 Schedule CME-r8, Page 40 of 136

	Page 158	Page 160
1	it is also our opinion that this procedure falls under EPA's	1 although it had not adopted it?
2	routine maintenance repair and replacement, RMRR guidance, do	2 A. We use guidance documents all the time in
3	you see that?	3 everything we do. We use guidance from EPA, verbal and
4	A. Yes.	4 written, and all this is saying is that we are not saying in
5		
_	Q. And there they list a number of factors. They	
6	say the RMRR guidance weighs the nature, the extent, the	
7	purpose, the frequency and the cost of the work. Do you see	7 Q. So do you – do you know if MDNR determined
8	that?	8 that the project at issue in the December 23, 2003 letter was
9	A. Yes.	9 or was not determined to be routine maintenance repair or
10	Q. And now you were referring to a proposed rule.	10 replacement for purposes of PSD applicability?
11	Were you thinking about the ERP rule, equipment replacement	11 A. Based on this letter, we did not make that
12	rule?	12 determination.
13	A. There were many documents on routine	13 Q. Does that mean necessarily that MDNR
14	maintenance repair and replacement, so I'm not I can't	14 determined that that project was not did not trigger PSD
15	speak to which particular document this is, so.	15 because it would not be expected to cause an emission
16	Q. Do you know if the factors that that I just	16 increase?
17	read into the record from the Shell letter, do you know if	17 A. I can't answer that based on what's here. I
18	those were part of the WEPCo applicability determination that	18 don't – I don't know the interpretations used at the time,
19	we talked about this morning?	19 so there's not enough information in this file to answer that
20	A. Yes.	20 question.
21	Q. They are, to your knowledge?	21 Q. And the reference to US EPA's guidance
22	A. Yes. Those are very common terms in routine	22 regarding routine would have only been relevant for a PSD
23	maintenance and repair.	23 applicability determination; right?
24	Q. Going back to your letter, and again the	24 A. Yes.
25	second to last paragraph on the bottom of the first page,	25 Q. So this letter is addressing PSD applicability
	Page 159	. Page 161
1	_	Page 161 1 explicitly; is that correct?
1 2	reads, the state of Missouri has not adopted the guidance	
	reads, the state of Missouri has not adopted the guidance into the state implementation plan at this time. Therefore,	 explicitly; is that correct? A. Yes. As we discussed, it the assumption is
2	reads, the state of Missouri has not adopted the guidance	 explicitly; is that correct? A. Yes. As we discussed, it the assumption is that the determination of PSD applicability was made and
2 3	reads, the state of Missouri has not adopted the guidance into the state implementation plan at this time. Therefore, concurrence is unnecessary. A. Uh-huh.	 explicitly; is that correct? A. Yes. As we discussed, it the assumption is that the determination of PSD applicability was made and there was not a PSD permit triggered and therefore we went on
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41 (Pages 158 to 161)

Case No. EF-2024-0021 Schedule CME-r8, Page 41 of 136

	Page 162		Page 164
1	Q. So going back to the time frame in in in	1	handwritten notes.
2	2003, then. Was there was there a process or protocol	2	A. Yes.
3	that was used by MDNR to determine whether or not a project	3	Q. Do you know whose handwriting that is?
4	was RMRR for purposes of PSD applicability?	4	A. I'm not positive, but I would surmise that
5	A. Was there an official process? No. I mean,	5	that is Susan Heckenkamp's writing.
6	we would use the EPA documents and the guidance and the	6	Q. But it's not your writing?
7	factors as spelled out in Shell Engineering's letter on	7	A. No, it is not mine.
8	routine maintenance.	8	Q. And in this applicability determination,
9	Q. Was there anything in MDNR's rules that told	9	Missouri Department of Natural Resources determined that no
0	the public how that determination would be made?	10	construction permit of any kind would be required for the
1	A. That what determination?	11	placement of a portion of the boiler tubes and all the
L2	Q. How determinations were going to be made by	12	superheater dependent tubes on Independence Power & Light's
.3	MDNR.	13	Missouri city Unit No. 2; is that correct?
.4	A. Not $-$ no.	14	A. That's correct.
L5	(Exhibit No. 16 was marked for	15	Q. And based upon your review of the the
.6	identification.)	16	documents in preparation for the deposition, what was the
.7	BY MR. BONEBRAKE:	17	scope of the project, then, that MDNR was addressing in this
L8	Q. We're showing you what's been marked as	18	applicability determination?
L9	Deposition Exhibit No. 16 for identification. Have you had a	19	A. The scope of the project?
20	chance to take a look at the exhibit?	20	Q. Right.
21	A. Yes.	21	A. Is the replacement of boiler tubes and
22	Q. And did you have an opportunity in preparation	22	superheater pendent tubes.
23	for the deposition today to review any of the documents that	23	Q. Do you know if superheaters are a component of
24	comprise this exhibit?	24	a boiler?
25	A. Yes.	25	A. Yes.
	Page 163		, Page 165
1	Q. And which of the documents?	1	Q. And are they comprised of tubes?
2	A. I believe I reviewed all of them: The letter	2	A. I would assume so.
3	written by DNR and the letter submitted to us by Independence		
Λ		3	Q. Okay. Let's talk about the some text on
4	Power & Light.	3	Q. Okay. Let's talk about the – some text on page 2 of the MDNR letter.
4 5	Power & Light. Q. All right. And the MDNR letter you're		
	-	4	page 2 of the MDNR letter. A. Okay.
5	Q. All right. And the MDNR letter you're	4 5	page 2 of the MDNR letter.
5 6	Q. All right. And the MDNR letter you're referring to is the July 7th, 2009, letter to City of	4 5 6	page 2 of the MDNR letter. A. Okay. Q. And I'm looking at the text below table 1.
5 6 7	Q. All right. And the MDNR letter you're referring to is the July 7th, 2009, letter to City of Independence?	4 5 6 7	page 2 of the MDNR letter.A. Okay.Q. And I'm looking at the text below table 1.A. Uh-huh.
5 6 7 8 9	Q. All right. And the MDNR letter you're referring to is the July 7th, 2009, letter to City of Independence?A. July 17th, yes.	4 5 6 7 8	page 2 of the MDNR letter.A. Okay.Q. And I'm looking at the text below table 1.A. Uh-huh.Q. And the first sentence reads, the air
5 6 7 8 9	Q. All right. And the MDNR letter you're referring to is the July 7th, 2009, letter to City of Independence?A. July 17th, yes.Q. Thank you. July 17th. And is that your	4 5 6 7 8 9	 page 2 of the MDNR letter. A. Okay. Q. And I'm looking at the text below table 1. A. Uh-huh. Q. And the first sentence reads, the air pollution control program concurs that the replacement of the
5 7 8 9 10	 Q. All right. And the MDNR letter you're referring to is the July 7th, 2009, letter to City of Independence? A. July 17th, yes. Q. Thank you. July 17th. And is that your signature on page 4 of MDNR's July 17th, 2009, letter? A. Yes. 	4 5 6 7 8 9 10	 page 2 of the MDNR letter. A. Okay. Q. And I'm looking at the text below table 1. A. Uh-huh. Q. And the first sentence reads, the air pollution control program concurs that the replacement of the boiler tubes and superheater pendent tubes appears to be
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. All right. And the MDNR letter you're referring to is the July 7th, 2009, letter to City of Independence? A. July 17th, yes. Q. Thank you. July 17th. And is that your signature on page 4 of MDNR's July 17th, 2009, letter? A. Yes. Q. And you were permit section chief at that time? A. Yes, that's correct. Q. And at that time, were you authorized to issue applicability determinations for MDNR? A. Yes. Q. And was there a technical person involved in connection for this applicability determination for DNR? A. Yes, Susan Heckenkamp. Q. And what was her involvement? A. She was the permit writer assigned to this 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 page 2 of the MDNR letter. A. Okay. Q. And I'm looking at the text below table 1. A. Uh-huh. Q. And the first sentence reads, the air pollution control program concurs that the replacement of the boiler tubes and superheater pendent tubes appears to be routine repair. Do you see that? A. Yes. Q. What was the basis for the air pollution control program's conclusion? A. I would say based on the information Independence Power & Light gave to us in their documentation stating that it was routine. On the surface, we agreed with that. That's what that sentence refers to. Q. And did MDNR apply a process or factors or other means to assess whether or not the proposed project was routine? A. No, because as the next statement goes on, we
5 6 7 8	 Q. All right. And the MDNR letter you're referring to is the July 7th, 2009, letter to City of Independence? A. July 17th, yes. Q. Thank you. July 17th. And is that your signature on page 4 of MDNR's July 17th, 2009, letter? A. Yes. Q. And you were permit section chief at that time? A. Yes, that's correct. Q. And at that time, were you authorized to issue applicability determinations for MDNR? A. Yes. Q. And was there a technical person involved in connection for this applicability determination for DNR? A. Yes, Susan Heckenkamp. Q. And what was her involvement? 	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 page 2 of the MDNR letter. A. Okay. Q. And I'm looking at the text below table 1. A. Uh-huh. Q. And the first sentence reads, the air pollution control program concurs that the replacement of the boiler tubes and superheater pendent tubes appears to be routine repair. Do you see that? A. Yes. Q. What was the basis for the air pollution control program's conclusion? A. I would say based on the information Independence Power & Light gave to us in their documentation stating that it was routine. On the surface, we agreed with that. That's what that sentence refers to. Q. And did MDNR apply a process or factors or other means to assess whether or not the proposed project was routine?

42 (Pages 162 to 165)

Case No. EF-2024-0021 Schedule CME-r8, Page 42 of 136

		-	
	Page 166	Page 1	68
1	Q. Well, as of July 17, 2009, did MDNR have a	1 A. Yes.	
2	process or protocol for making routine determinations for	2 Q. What did you mean in this letter by the phrase	
3	purposes of the PSD applicability?	3 "there is no clear definition or policy on what should be	
4	A. I'm sorry, after July?	4 considered routine maintenance and repair?"	
5	Q. As of July 2009, which is the date of this	5 A. Well, routine maintenance and repair is not	
6	letter.	6 defined. There's not a list in EPA regs, PSD regulations	
7	A. Did we have a process? No.	7 that list the list of routine maintenance and repair, so to	
8	Q. So was there was there a way for a source	8 be conservative, the program determined that no PSD was	
9	to determine as of 2009 whether a project would be considered	9 required due to the projected-actuals-to-actuals test.	
10	routine by MDNR?	10 Q. To your knowledge, has has MDNR made an	
11	A. The – what we would tell installations is the	11 applicability determination based upon a conclusion that a	
12	same thing our staff uses is to review EPA guidance documents	12 project proposed was RMRR for purposes of PSD applicability	?
13	on what they consider routine and that we would review those	13 A. Could you restate that?	
14	same guidance documents.	14 Q. Sure. Let me try it again.	
15	Q. So in connection with this particular	15 A. Okay.	
16	applicability determination, when MDNR was saying that they	16 Q. Has MDNR made a PSD non-applicability	
17	concurred that the replacement of the boiler tubes and	17 determination based upon a finding that the proposed change	
18	superheater pendent tubes appear to be routine repair, that	18 at an existing unit was routine maintenance repair and	
19	would have been based upon MDNR's understanding of the US EPA	19 replacement?	
20	RMRR guidance; is that correct?	20 A. I would say most likely. We make a lot of	
21	A. I can't speak for Susie – Susan's inference	21 permanent determinations and as everything in our realm,	
22	on that statement, but I would give my opinion that she was	22 things evolve. And in recent years, the routine maintenance	
23	basing it more on Independence Power & Light's submittal and	23 has become more important determination. So in past	
24	their justification that it is routine based on the different	24 determinations, we most likely did state that and then some	
25	factors they submitted and that is what that statement is	that we reviewed this morning, we used the term routine	
	Page 167	Page 1	69
1		Page 1	69
1	agreeing with. Since she doesn't go on to explain the	1 maintenance. We are more conservative now and want to make	69
2	agreeing with. Since she doesn't go on to explain the guidance documents from EPA, I would say she's relying more	 maintenance. We are more conservative now and want to make sure that we have a firm basis to issue a no permit required, 	69
2 3	agreeing with. Since she doesn't go on to explain the guidance documents from EPA, I would say she's relying more on Independence Power & Light's submittal.	 maintenance. We are more conservative now and want to make sure that we have a firm basis to issue a no permit required, so our sources are not subject to different interpretations 	69
2 3 4	agreeing with. Since she doesn't go on to explain the guidance documents from EPA, I would say she's relying more on Independence Power & Light's submittal. Q. The next page, page 3, in the middle paragraph	 maintenance. We are more conservative now and want to make sure that we have a firm basis to issue a no permit required, so our sources are not subject to different interpretations from EPA as from us and that's why in this determination, we 	69
2 3 4 5	agreeing with. Since she doesn't go on to explain the guidance documents from EPA, I would say she's relying more on Independence Power & Light's submittal. Q. The next page, page 3, in the middle paragraph starting with additionally.	 maintenance. We are more conservative now and want to make sure that we have a firm basis to issue a no permit required, so our sources are not subject to different interpretations from EPA as from us and that's why in this determination, we made the made the no permanent determination based on the 	69
2 3 4 5 6	agreeing with. Since she doesn't go on to explain the guidance documents from EPA, I would say she's relying more on Independence Power & Light's submittal. Q. The next page, page 3, in the middle paragraph starting with additionally. A. Uh-huh.	 maintenance. We are more conservative now and want to make sure that we have a firm basis to issue a no permit required, so our sources are not subject to different interpretations from EPA as from us and that's why in this determination, we made the made the no permanent determination based on the projected-actuals-to-actuals. 	69
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43 (Pages 166 to 169)

Case No. EF-2024-0021 Schedule CME-r8, Page 43 of 136

	Page 170		Page 172
1	Q. Has has MDNR ever applied the WEPCo factors	1	a need to change, that I recall.
2	in a PSD applicability determination?	2	Q. Are you aware of the interpretation of routine
3	A. Again, as I answered earlier, I would say most	3	maintenance repair and replacement being espoused by the
4	likely. We have attempted to make that determination,	4	United States in the Ameren litigation?
5	especially probably in older permit determinations. In more	5	A. Yes.
6	recent determinations, probably 2009 and to date, we are more	6	Q. And what's your understanding of that
7	conservative and involve EPA in those determinations, so we	7	position?
8	are speaking as one, EPA and MDNR.	8	A. My limited understanding and it has been
9	Q. Why did MDNR become more conservative in 2009?	9	awhile since I've read the the violation, is that EPA is
10	A. Well, I don't know if that's when it happened.	10	alleging that some of the actions that occurred were not
11	I just – I remember this project in particular. I was	11	routine and should have triggered PSD.
12	heavily involved with that. For several reasons, one, we do	12	Q. Are you aware of the basis for the US's
13	our best to interpret EPA's rules and as they're put into our	13	assertion of non-routineness?
14	state regs, but we are making a determination on federal	14	A. I – what do you mean by assertions?
15	rules as in our state rules. EPA can interpret that	15	Q. Well, do you know the grounds on which they're
16	differently. We want to make sure our sources are covered	16	claiming that the projects at issue in the Ameren case were
17	and we are not giving a determination that could be	17	not routine?
18	interpreted differently from EPA.	18	A. I'm still not understanding. I mean, I
19	So because of a lot of facilities asking us to	19	what I read in the determination is that the activities that
20	make these routine repair determinations, we ask for EPA	20	occurred should have triggered a PSD permit and a PSD permit
21	guidance. That's one of the reasons we asked for training.	21	was not obtained. Was that?
22	And we involve them in some of these determinations. It	22	Q. Okay. My question, I guess, was a was a
23	became more frequent and we became more conservative kind of	23	level of detail below that.
24	as a two-part because of some issues that EPA was enforcing	24	A. Okay.
25	on sources in Missouri and others, but also sources were	25	Q. And my question is whether you were you
	Page 171		. Page 173
1	asking for this determination more frequently in the in	1	were aware of the basis upon which the United States was
2	the last couple years.	2	claiming that the projects were not routine?
3	Q. So did MDNR change in 2009 or thereabouts the	3	MR. HANSON: That's I'm going to object.
4	way in which it went about making RMRR determinations for PSD	4	That's beyond the scope.
5	applicability?	5	THE WITNESS: Yeah, I - I would have to look
6	A. I would say we evolved. I'm not sure I would	6	at the document again to it's been awhile since I read it,
7	use the word changed. We made every effort to interpret the	7	so I did not read it in preparation for this.
8	regs at the time of any determination made. Those	8	(Exhibit No. 17 was marked for
9	determinations evolved with coordination with the EPA and	9	identification.)
10	with other states and that's where we are today.	10	BY MR. BONEBRAKE:
11	Q. Were you involved in the training that EPA	11	Q. All right. We are presenting for you for
12	provided on the RMRR?	12	review Deposition Exhibit No. 17 for identification.
13	A. Yes.	13	A. Okay.
14	Q. And I'm sorry, I might have missed it, did you	14	MR. HANSON: If no one else is going to say
15	say when that occurred?	15	it, I'm going to say that you can review the document.
16	A. I wasn't sure of the exact date. I'm guessing	16	THE WITNESS: Oh, yeah, it's a it's a lot.
17	the time frame was around this possibly time frame, probably	17	I'm aware of what it is. I'll wait until you ask me a
18	between 2008 and 2010. I don't know exactly.	18	question.
19	Q. Did did EPA ever indicate to MDNR that MDNR	19	BY MR. BONEBRAKE:
20	needed to change the way it was making routine determinations	20	Q. Okay. Have you have you seen this exhibit
21	to bring MDNR in line with the positions it was taking in its	21	before?
22	enforcement cases?	22	A. Yes.
22			
23	A. No, it wasn't presented that way. We were	23	Q. Okay. And – and what is this exhibit?
		23 24 25	Q. Okay. And – and what is this exhibit?A. It is the report issued by EPA Region 7 for the Missouri air program in 2004. This would be the final

44 (Pages 170 to 173)

Case No. EF-2024-0021 Schedule CME-r8, Page 44 of 136

	Page 174		Page 176
1	report after EPA's review of the program in 2004.	1	A. Yes.
2	Q. And so this would have would strike	2	Q. Would these files that are indicated on on
3	that.	3	this page include no permit required determinations?
4	Did this review include a US EPA review of the	4	A. They could. This list does not tell me that,
5	construction permitting program implemented by MDNR?	5	and based on the title list of minor source reconstruction
6	A. Yes, that was one piece of the review.	6	permit files, I would surmise that these are all permits. I
7	Q. So it would have included review of the	7	would have to go there is a detail of each project and
8	implementation of the PSD program in Missouri?	8	each company then, and I would have to just look through each
9	A. Again, the the EPA review does not touch in	9	one to determine if there was a permit determination as
10	depth on the PSD permit program. They may choose to comment	10	opposed to a permit. And just based on this chart, I would
11	on it. The basis of the program review is to cover the minor	11	look at the ones where preconstruction waiver is zero because
12	source permitting program because EPA reviews our PSD permits	12	if a preconstruction waiver was issued, that would mean
13	at the time they are drafted and issued and they have that	13	indicate it was a permit, not a permit determination.
14	ability. So it is more a review of the minor source but they	14	Q. I see.
15	can touch on the PSD as well.	15	A. So did you have a specific question?
16	Q. Well, I think as we discussed this morning,	16	Q. I was interested in whether or not they were
17	that the PSD permits are sent to US EPA on a regular basis	17	looking at those files, and I guess the answer is maybe?
18	but the PSD applicability determinations may or may not be?	18	A. Yes.
19	A. Right.	19	Q. Was the – was the text of the program review
20	Q. So the review period would be an opportunity	20	report, setting aside what's in the appendices, but the
21	for US EPA to review PSD non-applicability determinations;	21	narrative of the draft
22	correct?	22	A. Right.
23	A. Yes. I guess I would clarify that no permit	23	Q is that drafted by EPA Region 7?
24	required letters, I don't and that's why I answer the way	24	A. Yes.
25	I do is I view them as separate from the PSD permitting, so	25	Q. There is an attendance sheet at 00128710.
			C
	D 105		
	Page 175		, Page 177
1	-	1	``
1 2	Page 175 they're a separate piece, so that's why I answered that way earlier.	1	Page 177 MR. HANSON: Can you repeat that again? MR. BONEBRAKE: Yes, 00128710.
	they're a separate piece, so that's why I answered that way earlier.		MR. HANSON: Can you repeat that again? MR. BONEBRAKE: Yes, 00128710.
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2 3 4	they're a separate piece, so that's why I answered that way earlier. Q. Okay. And let's see if we can kind of clarify the record on that point.	2 3 4	MR. HANSON: Can you repeat that again? MR. BONEBRAKE: Yes, 00128710. THE WITNESS: Here we go, yes. BY MR. BONEBRAKE:
2 3 4 5	they're a separate piece, so that's why I answered that way earlier. Q. Okay. And let's see if we can kind of clarify the record on that point. A. Okay.	2 3 4 5	MR. HANSON: Can you repeat that again? MR. BONEBRAKE: Yes, 00128710. THE WITNESS: Here we go, yes. BY MR. BONEBRAKE: Q. And you'll see – I believe that's your name
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45 (Pages 174 to 177)

Case No. EF-2024-0021 Schedule CME-r8, Page 45 of 136

	Page 178		Page 180
1	the appendix that's found at 00128734. It's appendix 1014-4?	1	the letter from 2000?
2	A. Yes.	2	A. I would have to look at that the letter. I
3	Q. And the title of this appendix is new source	3	know there's a letter in EPA's database, the Detroit Edison,
4	review, NSR, program review questionnaire and responses. And	4	but I can't speak to the date without it in front of me.
5	in looking at the appendix, it looks like there's a number of	5	Q. Okay. The answer to number three is no, and
б	questions and then responses provided. Do you know if the	6	that question is: Do you have a formal protocol for making
7	questions in this appendix were drafted by EPA and the	7	RMRR exemption determinations; correct?
8	responses provided by MDNR?	8	A. Yes.
9	A. Yes, that's correct.	9	Q. So does that mean that as of that time, you
10	Q. And do you know who provided the responses in	10	were not following MDNR was not following the protocols
11	this questionnaire on behalf of MDNR?	11	set forth in either the EPA letter to Henry Nickel regarding
12	A. If these are yes, these are the NSR	12	Detroit Edison or the WEPCo case RMRR documents?
13	questions, so it would have been the permit section staff,	13	A. I would say that means that we don't have a
14	myself, and most likely Kendall Hale, the unit chief at the	14	formal document, an MDNR document, that steps through this is
15	time.	15	what you have to do. Our protocol in a lot of determinations
16	Q. Do you have a recollection of reviewing and	16	is to review guidance available, whether it's EPA guidance or
17	responding to the questionnaire?	17	other documents from industry. That's how I would interpret
18	A. Yes.	18	that question.
19	Q. You do?	19	Q. Number – No. 7 asks about the purpose
20	A. Yes.	20	evaluation factor in RMRR exemption evaluation. And the
21	Q. On the on the cover sheet for the	21	answer is yes, if emissions increase is due to the increase
22	appendix 4, at the bottom, it says completed by MDNR May	22	in capacity. Can you explain what that answer means?
23	2004, and then in parens questionnaire does not address NSR	23	A. Let me read it all.
24	reform issues. Do you see that?	24	MR. HANSON: Just object that I think that
25	A. Yes.	25	misstates the document.
1	Page 179	1	Page 181
1 2	Q. What NSR reform issues are – are being referenced there?	2	THE WITNESS: I don't think I can explain this anymore than the statement here because I – I don't remember
3	A. The NSR reform rules, that's the rules issued	3	why we would have answered that.
4	by EPA a couple years prior to that. I don't believe at this	4	BY MR. BONEBRAKE:
5	time frame we were probably still going through the process	5	Q. All right. And Question No. 8 asks about the
6	of adopting those into our state regulations. I think my	6	frequency evaluation factors?
7	recollection is that's why we that comment is there.	7	A. Yes.
8	Q. So so is that a reference to the rules	8	Q. And the answer is: Some combination of these
9	adopted by US EPA as a matter of federal law in late 2002	9	histories. Does that mean that MDNR's consideration of
10	that contained an actual-to-projected emission test for all	10	frequency including – included the frequency of particular
11	major sources?	11	kinds of projects in the same industry?
12	A. Yes, that's correct.	12	MR. HANSON: Objection, vague and ambiguous.
13	Q. I'd like to turn your attention to the third	13	THE WITNESS: I would interpret the answer as
14	page of this appendix, it's appendix page C1-2, Bates-stamp	14	we do everything that's listed here. We consider the history
15	00128736. And the heading for section 1.1, routine	15	of the unit in question, the history of similar units at the
16	maintenance repair and replacement, and were you involved in	16	same facility, and history of similar units at other
17	providing the responses in this section on behalf of MDNR?	17	facilities in the same industry, so.
18	A. Yes, I would have been.	18	BY MR. BONEBRAKE:
19	Q. The first question is has a reference to	19	Q. Okay.
20	the EPA letter to Henry Nickel of Hunton & Williams	20	A. All of the above.
21	concerning Detroit Edison and the WEPCo case on our	21	Q. So to determine frequency, you were looking at
22	documents, and the question is whether you have knowledge and	22	histories of the unit, the plant and the industry?
23	there's an indication of of yes. Do you know if if the	23	A. Yes.
24	2002 letter referenced to with respect to the Detroit	24	Q. And can you think of an applicability
25	Edison letter was incorrect and whether that was, in fact,	25	determination by MDNR, in fact, where it applied that

Alderson Reporting Company 1-800-FOR-DEPO 46 (Pages 178 to 181)

	Page 182		Page 184
1	approach to determine frequency?	1	mention that what I'm most interested in in this document is
2	A. Not specifically, no.	2	found at AM0043316-MDNR, which is about three-quarters of the
3	Q. The answer to the Question No. 9 regarding	3	way through the document.
4	cost is what percentage of the total cost is considered. Can	4	A. Can you restate that number?
5	you explain for us what that answer means?	5	Q. Sure, it's 3316.
6	A. I would think that I would answer the question	6	A. Okay.
7	now regarding the cost evaluation factor and RMRR exemption	7	Q. And you're at the April 5, 2010, letter?
8	evaluation, what procedure do you take cost into account.	8	A. Yes.
9	You would take the total cost as a reflection of the	9	Q. And did you have a chance to review that
10	percentage cost, and I think that's what that statement is	10	letter in preparation for your deposition today?
11	trying to get at.	11	A. I did.
12	Q. The percentage of the total cost of what?	12	Q. Is that a letter from you on behalf of MDNR to
13	A. If you were talking about the replacement of	13	Independence Power & Light?
14	the insulation, for example, the entire boiler instead of a	14	A. That's correct.
15	boiler tube or one or a hundred tubes. I think that's what	15	Q. And that's your signature on page 2 of the
16	this is saying. You take the percentage of the replacement	16	April 5, 2010, letter?
17	in comparison to the total cost of if you had to replace the	17	A. Yes.
18	entire equipment.	18	Q. I noted in looking through the permitting
19	Q. I see. So kind of like a reconstruction	19	materials in your applicability determinations that there was
20	approach where you're looking at the cost of a project versus	20	an earlier determination issued by MDNR for Independence
21	the cost of replacing a unit?	21	Power & Light on grounds other than RMRR with respect to the
22	A. Right.	22	project that's addressed in the April 5, 2010, letter. Do
23	Q. And I guess that has the value of making	23	you recall that?
24	relative the cost out of any particular unit because the	24	A. Yes.
25	bigger the unit, the smaller a fixed cost would be; right?	25	Q. And the grounds in that earlier determination
	Page 183		. Page 185
1		1	· ·
1 2	MR. HANSON: Objection, vague and ambiguous.	1 2	for non-applicability was that emissions were not expected to
	MR. HANSON: Objection, vague and ambiguous. THE WITNESS: I think it's important to look		· ·
2	MR. HANSON: Objection, vague and ambiguous.	2	for non-applicability was that emissions were not expected to increase. Do you recall that?
2 3	MR. HANSON: Objection, vague and ambiguous. THE WITNESS: I think it's important to look at the entire picture in addition to the small picture in	2 3	for non-applicability was that emissions were not expected to increase. Do you recall that? A. Yes, I believe it was a
2 3 4	MR. HANSON: Objection, vague and ambiguous. THE WITNESS: I think it's important to look at the entire picture in addition to the small picture in relative to the large picture. I think that's what that is	2 3 4	for non-applicability was that emissions were not expected to increase. Do you recall that? A. Yes, I believe it was a projected-actual-to-actual, yes.
2 3 4 5	MR. HANSON: Objection, vague and ambiguous. THE WITNESS: I think it's important to look at the entire picture in addition to the small picture in relative to the large picture. I think that's what that is getting at.	2 3 4 5	for non-applicability was that emissions were not expected to increase. Do you recall that? A. Yes, I believe it was a projected-actual-to-actual, yes. Q. And in that earlier determination, MDNR had
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47 (Pages 182 to 185)

Case No. EF-2024-0021 Schedule CME-r8, Page 47 of 136

	Page 186		Page 188
1	discuss that at that time.	1	A. That's correct.
2	Q. Did MDNR ever make a RMRR determination	2	Q. So you cut and pasted from EPA's letter,
3	following its April 5, 2010, letter?	3	italicized language and inserted it in your letter of
4	A. No.	4	April 5, 2010?
5	Q. Okay. Did what was the reason that no	5	A. Yes.
б	decision was issued by MDNR?	6	Q. And did you have any discussion with with
7	A. I don't believe we received anything from	7	EPA about why all those factors needed to be reviewed for
8	Independence Power & Light. If we did, it wasn't enough to	8	RMRR determinations at that time?
9	make that determination and the project stopped at that	9	A. The discussion was giving us guidance on
10	point.	10	routine maintenance and repair and using the these four
11	Q. Did – did EPA tell MDNR that all of the	11	factor analysis and they were helping us lay out the four
12	factors listed in MDNR's April 5th April 5, 2010, letter	12	factors in relation to Independence Power & Light. That's
13	needed to be considered to make an RMRR determination?	13	what the discussion was on how this applies to this project
14	A. Yes.	14	and how Independence Power & Light was asking us for a
15	Q. Had MDNR ever set forth all of those factors	15	determination so we worked with EPA on how we could respond
16	in any prior applicability determination, guidance or rule	16	to Independence Power & Light and this was the initial
17	advising sources of all of those factors to be used for	17	response.
18	making RMRR determinations?	18	Q. Are you aware of any court decisions regarding
19	A. Not in this detail, no.	19	the validity of all the factors set forth in the April 5,
20	Q. Do you know if the level of detail provided in	20	2010, letter?
21	MDNR's April 5, 2010, letter was set forth in the US EPA	21	A. There are several court decisions that I'm
22	letter to DTE that was referenced in the 2004 questionnaire?	22	remembering and I can't remember the names. Other than the
23	A. The 2004 letter, I'm not sure. This language	23	WEPCo that we already talked about, there's several others, I
24	came from communication between MDNR and EPA on this issue.	24	believe, that detailed court decisions from EPA using these
25	This is pretty much taken from an EPA letter to us on this	25	factors.
	Page 187		. Page 189
1	Page 187 question.	1	Page 189 Q. And was there any discussion between MDNR and
1 2	_	1 2	`
	question.		Q. And was there any discussion between MDNR and
2	question. Q. Okay. So EPA instructed you to use	2	Q. And was there any discussion between MDNR and US EPA about the need for MDNR to use these factors to bring
2 3	question. Q. Okay. So EPA instructed you to use instructed MDNR to use these factors?	2 3	Q. And was there any discussion between MDNR and US EPA about the need for MDNR to use these factors to bring MDNR's RMRR determination process in conformity with the
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48 (Pages 186 to 189)

Case No. EF-2024-0021 Schedule CME-r8, Page 48 of 136

	Page 190		Page 192
1	and everything we do kind of evolved over time based on rule	1	And the first paragraph of this letter refers
2	changes, based on enforcement cases, and we want to give the	2	to a letter dated February 25th, 2005, from MDNR that
3	sources in Missouri the best answer possible based on the	3	requested the US EPA to amend Missouri state's implementation
4	information we have at the time they request.	4	plan to reflect changes made to the construction permitting
5	And at this time, we knew EPA was looking at	5	rules in Missouri. Do you see that?
б	these issues and were working with EPA so we could answer	6	A. Yes.
7	Independence Power & Light's questions and be assured that	7	Q. And do you know if as of February 25th, 2005,
8	EPA would back us on that same statement.	8	MDNR had asked US EPA to incorporate into the Missouri SIP
9	BY MR. BONEBRAKE:	9	provisions added to the Missouri construction rules that
10	Q. Has MDNR applied the factors set forth in the	10	incorporated by reference certain elements of 40 CFR 52.21?
11	April 5, 2010, letter for any other applicability	11	A. Yes. That's that's what this letter is in
12	determinations?	12	reference to, so yes.
13	A. Not that I can recall. I don't know that	13	
14		14	Q. The last sentence in the first paragraph
	anyone has asked us recently since this to go into this much		states, this ruling vacated the clean unit exclusion,
15	detail and to define it as routine maintenance.	15	provides a cite and the pollution control project provision,
16	MR. BONEBRAKE: Let's take a short break. Off	16	against provides the cite, and remanded to EPA for further
17	the record, please.	17	justification in the record-keeping provisions for the
18	VIDEOGRAPHER: We're off the record. It's	18	actual-to-projected-actual emission projections parens 40 CFR
19	3:01 p.m.	19	52.21 R6. Do you see that?
20	(A break was held.)	20	A. Yes.
21	(Exhibit No. 19 was marked for	21	Q. And when a remand occurs from a review in
22	identification.)	22	court in connection with an EPA rule, do you know if the rule
23	VIDEOGRAPHER: We're back on the record at	23	remains in effect during the pendency of the remand?
24	3:17 p.m.	24	MR. HANSON: Objection, calls for a legal
25		25	conclusion.
1	Page 191	1	Page 193
1 2	BY MR. BONEBRAKE:	2	THE WITNESS: The rule in Missouri state rules
3	Q. Representing to you an exhibit that's been	3	or federal rules?
	marked No. 19 for identification. It's a two-page letter		BY MR. BONEBRAKE:
4	from MDNR.	4	Q. Well, if you look at the letter for context,
5	A. Okay. Yes.	5	there's a there's a reference in that first paragraph to a
6	Q. Have you seen this letter before?	6	decision by the US Court of Appeals for the District of
7	A. I have.	7	Columbia
8	Q. Were you involved in the preparation of this	8	A. Yes.
9	letter?	9	Q in a June 25th June 24, 2005, ruling.
10	A. I was not.	10	Do you see that?
11	Q. Okay. This letter appears to be signed by	11	A. Yes.
12	James Cavanaugh. Do you recognize his signature on page 2?	12	Q. And it said the ruling vacated the clean unit
	A. Yes, I do.	13	exclusion and the pollution control project provision, but
13	A. 103,100.	1	
13 14	Q. And was he director of the air pollution	14	remanded to EPA for further justification the record-keeping
		14 15	remanded to EPA for further justification the record-keeping provision.
14	Q. And was he director of the air pollution		• • • • •
14 15	Q. And was he director of the air pollution control program at MDNR as of February 8th, 2006?	15	provision.
14 15 16	Q. And was he director of the air pollution control program at MDNR as of February 8th, 2006?A. Yes, he was.	15 16	provision. A. Right.
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14 15 16 17 18	 Q. And was he director of the air pollution control program at MDNR as of February 8th, 2006? A. Yes, he was. Q. And is he with MDNR at this point in time? A. No, he is not. Q. Is he retired? 	15 16 17 18	provision. A. Right. Q. So my question for you is: When a remand occurs, like in this case on the record-keeping provisions, whether those record-keeping provisions of the federal rule
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49 (Pages 190 to 193)

Case No. EF-2024-0021 Schedule CME-r8, Page 49 of 136

	Page 194		Page 196
1	record-keeping provisions for the actual-to-projected-actual	1	A. Okay.
2	emission provisions?	2	Q. And has – has MDNR notified
3	A. Yes, that's correct.	3	electric-generating plants in Missouri about when, if ever,
4	Q. Do you know if sometime after February 28,	4	they should submit emission projections to MDNR?
5	2006, US EPA adopted a definition of quote-unquote reasonable	5	A. Not to that much specificity. We have
6	possibility?	6	provided guidance to our stakeholders of the reform rules and
7	A. Yes.	7	how to do calculations of PSD applicability and general
8	Q. And do you know when US EPA adopted that	8	conversations, but your question was pretty specific to
9	definition?	9	utility industry and I would say no, we have not issued that
10	A. I would have to look at the document, but it's	10	specific guidance just to the utility industry.
11	I believe 2012. It's more recent.	11	Q. Okay.
12	Q. Is there a document that's in the binder that	12	(Exhibit No. 20 was marked for
13	would refresh your recollection on that?	13	identification.)
14	A. I can't remember if it was in the binder or	14	BY MR. BONEBRAKE:
15	not. I've looked at the Fact Sheet of the rule, and I do	15	Q. All right. We're presenting to you a
16	know that's not in here, and I don't think I brought that.	16	deposition exhibit marked No. 20 for identification.
17	But yes, it is more recent than this that they proposed that	17	A. Uh-huh.
18	reasonable possibility. Is that what you're asking?	18	Q. And if you could take a look at that exhibit,
19	Q. Yes.	19	please.
20	A. Okay.	20	A. Okay.
21	Q. And has MDNR adopted EPA's definition of	21	Q. Have you had a chance to review the exhibit?
22	reasonable possibility into MDNR's construction permitting	22	A. Yes.
23	rules?	23	Q. And did you have an opportunity to review any
24	A. Yes, I do believe that is in our rules.	24	of the pages that comprised this exhibit in anticipation of
25	Q. Okay. Is there a requirement in the	25	this deposition?
1 2	reasonable possibility rule that under some circumstances electric generating units submit emission projections to the	1 2	A. Yes.Q. And which of these pages did you review?
3	-	3	A. I believe both the April 17th, 2009, letter
4	COURT REPORTER: I'm sorry, to the what?	4	from DNR to City Utilities as well as the September 19th,
5	MR. HANSON: Objection.	5	2007, letter from City Utilities to MDNR.
6	MR. BONEBRAKE: Permitting authority.	6	Q. And in that City Utilities letter, was City
7	MR. HANSON: Objection, calls for a legal	7	Utilities requesting an applicability determination from MDNR
8	conclusion.	8	regarding the replacement of economizer tubes on James Power
9	THE WITNESS: My understanding of the	9	Station Unit 5?
10	reasonable possibility rule is that it allows facilities to	10	A. Yes.
11	make that determination themselves without necessarily	11	Q. Okay. And with respect to the MDNR letter
12	submitting it, but they must keep records of that under	12	dated April 17, 2009, on page 2, there's a signature block?
	certain circumstances.	13	A. Yes.
13	BY MR. BONEBRAKE:	14	Q. Is that your signature?
14			A. Yes.
14 15	Q. Has – has MDNR received any emission	15	
14 15 16	Q. Has – has MDNR received any emission projections from electric generating plants in Missouri under	16	Q. And were you permit section chief as of the
14 15 16 17	Q. Has – has MDNR received any emission projections from electric generating plants in Missouri under the reasonable possibility provision?	16 17	date of this letter?
14 15 16 17 18	Q. Has – has MDNR received any emission projections from electric generating plants in Missouri under the reasonable possibility provision?A. I believe so. We have responded to some	16 17 18	date of this letter? A. Yes, that's correct.
14 15 16 17 18 19	 Q. Has – has MDNR received any emission projections from electric generating plants in Missouri under the reasonable possibility provision? A. I believe so. We have responded to some requests for determinations and I do think some of those were 	16 17 18 19	date of this letter?A. Yes, that's correct.Q. And in that capacity, were you authorized to
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14 15 16 17 18 19 20 21 22	 Q. Has – has MDNR received any emission projections from electric generating plants in Missouri under the reasonable possibility provision? A. I believe so. We have responded to some requests for determinations and I do think some of those were from utilities. I would have to look at our projects specifically, but we have analyzed that reasonable possibility projections. 	16 17 18 19 20 21 22	 date of this letter? A. Yes, that's correct. Q. And in that capacity, were you authorized to issue applicability determinations on behalf of MDNR? A. Yes. Q. And was Susan Heckenkamp the engineer at MDNR

50 (Pages 194 to 197)

Case No. EF-2024-0021 Schedule CME-r8, Page 50 of 136

	Page 198		Page 200
1	on a construction permit fees worksheet?	1	but they could not provide calculations so then we gave the
2	A. That's correct.	2	guidance that they need to maintain the records outlined in
3	Q. Is the strike that.	3	the federal regs to support that conclusion.
4	As of April 21st, 2009, was the James River	4	Q. But MDNR concurred with City Utilities, did it
5	Power Station a major source?	5	not, that emission increase would not be expected?
6	A. Yes.	6	A. We reiterated what they provided to us, so we
7	Q. So it was potentially subject to PSD	7	took the determination and justification from the source and
8	permitting if it performed a modification that triggered PSD;	8	agreed that was a reasonable analysis and in order to support
9	correct?	9	that, requested them to keep records.
10	A. That's correct.	10	Q. Because MDNR has an independent obligation to
11 12	Q. And the April 17, 2009, MDNR letter determined	11 12	apply and enforce its construction permitting rules; correct?
13	that no construction permit of any kind was required with respect to the City Utilities' proposal to replace economizer	13	A. Yes.
14	tubes on James Power Station Unit 5; correct?	14	Q. Now you mentioned the – the obligation to maintain records, which is also referenced in that same
15	A. That's correct.	15	paragraph?
16	Q. In looking at paragraph 2 of your April 17,	16	A. Yes.
17	2009, letter, was it correct that the economizer tube	17	Q. And you noted that that was pursuant to 40 CFR
18	replacement was intended to increase the heat exchange area	18	52.21; is that correct?
19	of the boiler?	19	A. That's correct.
20	A. Yes, that is the statement.	20	Q. And MDNR wanted the source to maintain annual
21	Q. And would that increase in the heat exchange	21	emissions information for five years after the change; is
22	area increase the efficiency of the boiler?	22	that right?
23	MR. HANSON: Objection, lack of foundation.	23	A. Yes, that's correct.
24	THE WITNESS: As it is stated, it is expected	24	Q. What is the relevancy of annual actual
25	to help the boiler be more efficient, yes.	25	emissions after a project?
	Page 199		D
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1		1	、 、
1	BY MR. BONEBRAKE:	1	MR. HANSON: Objection, vague and ambiguous.
2	BY MR. BONEBRAKE: Q. And when a boiler is more efficient, does that	2	MR. HANSON: Objection, vague and ambiguous. THE WITNESS: The relevancy? We were – the
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51 (Pages 198 to 201)

Case No. EF-2024-0021 Schedule CME-r8, Page 51 of 136
	Page 202		Page 204
1		1	
1 2	made any determination about the significance of the Detroit	2	they can, you know, keep their actual emissions steady for two years or five years and then increase after five years
3	Edison decision on the relevancy of post-project emissions?	3	and that trigger PSD, that – that's trying to recall
4	MR. HANSON: Same objection.	4	specific conversations with multiple sources and I can't
5	THE WITNESS: No. I mean, specifically to	5	speak to that specifically.
6	that case, no, we would not have made any determination. BY MR. BONEBRAKE:	6	Q. In the April 17, 2009, applicability
7		7	determination by MDNR, did it determine that no emission
8	Q. Has there been any discussion between MDNR and US EPA about the Sixth Circuit decision in the Detroit Edison	8	increase would be expected based upon the actual-to-projected
9	case?	9	emission test?
10	A. Not that I've been privy to. There may be	10	A. Based on the way the letter is written, we
11	some discussions from permit staff and EPA staff. They talk	11	were saying there was no emission increase and that is what
12	a lot, so I'm not sure if that came up in conversation or	12	City Utilities was presenting. They said this project should
13	not, so.	13	not increase emissions. Our technical staff concurred with
14	Q. Do you know if the Sixth Circuit decision	14	that possibility and proposal and then restated that emission
15	allowed sources to hold their actual emissions post-project	15	increase is not expected. However, in lieu of calculations,
15 16	to projected levels in order to avoid NSR review?	16	that we did not have and City Utilities cannot provide,
17	MR. HANSON: Objection, calls for a legal	17	that's when we asked for the maintaining of records. I don't
18	conclusion.	18	know if I answered your question, but that's what the letter
19	THE WITNESS: I would have to look at the	19	and analysis was.
20		20	Q. Well, my question was: Did MDNR consider the
20	COURT CASE.	20	assertions by City Utilities regarding emission changes or
22	BY MR. BONEBRAKE:	22	not through an actual-to-projected or some other emission
22	Q. I'm sorry?A. I would have to look at the court case to	23	test approach?
23 24	confirm that, but.	23	MR. HANSON: Objection, asked and answered.
25	Q. You have no recollection?	25	THE WITNESS: There's – there's nothing in
20		25	THE WITNESS. THEES – the should give
	Page 203		Page 205
1		1	· ·
1 2	A. I don't remember.	1	this project file that indicates a detailed calculation was
2	A. I don't remember. MR. HANSON: Objection, calls for a legal	2	this project file that indicates a detailed calculation was done, so again, we relied on the source's projection that
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. I don't remember. MR. HANSON: Objection, calls for a legal conclusion. BY MR. BONEBRAKE: Q. And MDNR has not been asked to offer a view on that question by any source in Missouri? A. Not that I recall specific to that. Sources ask us our opinion on what their projects are, so I don't – I don't remember any specific request on a source on that. Q. Well, let me change my question, make sure we have a common understanding. A. Okay. Q. Has any source in Missouri asked for Missouri natural department – MDNR's view on whether the source can hold its actual post-project emissions consistent with its projected emissions in order to avoid NSR review? A. So you're asking if the source – if a source in question has asked us if they can hold steady the emissions and still meet the projected-actual-to-actual test by holding their emissions steady? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 this project file that indicates a detailed calculation was done, so again, we relied on the source's projection that emissions would not increase and then in order to ensure compliance, requested the source keep the records of actual-to-projected-actual. BY MR BONEBRAKE: Q. Okay. A. There's a conservative approach to agreeing with their no emissions increase. VIDEOGRAPHER: I'm going to have to go off the record for just a second. Off the record at 3:39. (An off-the-record discussion was held.) VIDEOGRAPHER: Okay. We're back on the record at 3:40 pm. BY MR BONEBRAKE: Q. I'd like to talk a little bit more about an exhibit that we talked briefly about earlier this afternoon and it's Exhibit 16. A. Okay. Q. All right. And we earlier were talking some about the text on the top of page 2 and I'd like to turn to page 2 again and look at some slightly different text. The second full paragraph on page 2 of this letter refers to IPL.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. I don't remember. MR. HANSON: Objection, calls for a legal conclusion. BY MR. BONEBRAKE: Q. And MDNR has not been asked to offer a view on that question by any source in Missouri? A. Not that I recall specific to that. Sources ask us our opinion on what their projects are, so I don't – I don't remember any specific request on a source on that. Q. Well, let me change my question, make sure we have a common understanding. A. Okay. Q. Has any source in Missouri asked for Missouri natural department – MDNR's view on whether the source can hold its actual post-project emissions consistent with its projected emissions in order to avoid NSR review? A. So you're asking if the source – if a source in question has asked us if they can hold steady the emissions and still meet the projected-actual-to-actual test by holding their emissions steady? Q. Below significance. A. Below significance thresholds? That particular statement, I'm not sure. I'm mean, we've had – 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 this project file that indicates a detailed calculation was done, so again, we relied on the source's projection that emissions would not increase and then in order to ensure compliance, requested the source keep the records of actual-to-projected-actual. BY MR BONEBRAKE: Q. Okay. A. There's a conservative approach to agreeing with their no emissions increase. VIDEOGRAPHER: I'm going to have to go off the record for just a second. Off the record at 3:39. (An off-the-record discussion was held.) VIDEOGRAPHER: Okay. We're back on the record at 3:40 p.m. BY MR BONEBRAKE: Q. I'd like to talk a little bit more about an exhibit that we talked briefly about earlier this afternoon and it's Exhibit 16. A. Okay. Q. All right. And we earlier were talking some about the text on the top of page 2 again and look at some slightly different text. The

52 (Pages 202 to 205)

Case No. EF-2024-0021 Schedule CME-r8, Page 52 of 136

	Page 206		Page 208
1	A. Yes.	1	project review. It is not documented in writing here, so it
2	Q. And this was July of – of 2009. Were you	2	is not in the file so I cannot state that that occurred
3	aware - are you aware of any use by MDNR of the	3	conclusively.
4	actual-to-projected-actual test under 40 CFR 52.21 prior to	4	Q. But as you noted, the file does not indicate
5	July 2009?	5	that that conversation occurred; correct?
6	MR. HANSON: Objection, vague and ambiguous.	6	A. That's correct.
7	THE WITNESS: I I don't know about the date	7	Q. Has - has MDNR, in fact, considered the
8	prior to 2009. We did multiple permit determinations in a	8	outage history of a boiler component in connection with any
9	month, so it is possible. I can't answer that.	9	of the applicability determinations that it's made for
10	BY MR. BONEBRAKE:	10	electric generating units?
11	Q. Is it correct that under the	11	A. Considered it? I would say that wouldn't
12	actual-to-projected-actual test under 40 CFR 52.21, the	12	necessarily be a part of the applicability determination. We
13	baseline emission periods is a five year period immediately	13	would review the equipment being replaced, not necessarily
14	proceeding the proposed project?	14	the need for the equipment replacement, so it may come up in
15	A. That's correct.	15	the conversation and in the project review in the many
16	Q. And is it also correct that the source could	16	applicability determinations we do, but I can't state how
17	elect to use any 24 consecutive months during that five-year	17	many or when we had those conversations.
18	period as a baseline period?	18	Q. So it – it wouldn't be a standard approach by
19	MR. HANSON: Objection, calls for a legal	19	MDNR to require information about whether a particular
20	conclusion.	20	component had caused outages as part of its applicability
21	THE WITNESS: It is my understanding that that	21	determination process?
22	is allowed, yes.	22	A. That wouldn't be necessary to make our
23	BY MR. BONEBRAKE:	23	determination on whether a permit is required.
24	Q. And again, this is a 30(b)(6) deposition of	24	Q. Okay. So so component outage information
25	MDNR, so I'm asking is that MDNR's position?	25	is is not relevant to MDNR's applicability determinations?
	Page 207		, Page 209
1	A. Yes.	1	A. Most of the time, no, it would not be.
2	Q. Thank you.	2	Q. Are you – are you familiar with the – the
3	Q. And in this case, again, was IPL's emission	3	emission test that the United States has proposed to be the
4	projection approach satisfactory to MDNR?	4	applicable emission test in the Ameren lawsuit?
5	A. The emission approach laid out on page 2?	5	MR. HANSON: Objection, vague and ambiguous.
6	Q. Correct.	6	THE WITNESS: The - I'm not sure of the
7	A. Yes.	7	question. The emissions test in the lawsuit? No, I would -
8	Q. And based upon your review of the exhibit and	8	the emissions test in a permit review or I'm not sure what
9	your preparation for the deposition, do you know if the unit	9	you're asking.
10	at issue in this applicability determination by MDNR was	10	BY MR. BONEBRAKE:
11	experiencing outages or derates as a result of the tubes	11	Q. The question I'm asking is if you're aware of
12	which were proposed to be replaced?	12	the emission test that the United States asserts in the
13	A. I do not recall if they got into that much	13	lawsuit should be used to determine whether or not the
14	detail. They state in their letter that they're merely	14	projects at issue in that case triggered PSD?
15	performing preventative maintenance to ensure operations can	15	MR. HANSON: Objection, vague and ambiguous.
16	be maintained, so I am not aware of the outages were a part	16	THE WITNESS: I would with any permit
17	of this - part of the reason for the equipment, if that's	17	determination follow EPA's guidance on what is the
18	what you're asking.	18	appropriate emissions test, so I don't remember the exact
19	Q. Part of the reason why the proposal was made	19	wording in the lawsuit, so we would just follow EPA's
20	to replace the equipment?	20	guidance on any emissions test.
21	A. Right.	21	(Exhibit No. 21 was marked for
22	Q. And did MDNR ask the company whether or not	22	identification.)
23	the tubes which were proposed to replace to be replaced	23	BY MR. BONEBRAKE:
24	had caused any outages or derates?	24	Q. All right. We're presenting to you a
25	A. That conversation may have occurred during the	25	multi-page document that's been marked as Deposition Exhibit
25			

53 (Pages 206 to 209)

Case No. EF-2024-0021 Schedule CME-r8, Page 53 of 136

	Page 210		Page 212
1	No. 21 for identification.	1	
2		2	A. We keep files for each project number, so yes.Q. Okay. So consistent with what we said before,
3	A. Okay.Q. If you could take a look at that, please.	3	for a given source for what you said before, for a given
4	Have you had a chance to take a look at this exhibit?	4	source, you will keep a separate file for each – each
5	A. Yes.	5	project, whether that be a permit or applicability
6	Q. And did you have a chance to review any of the	6	determination or some other separate action?
7	pages comprising this exhibit in preparation for the	7	A. That's correct.
8	deposition today?	8	Q. Okay. With respect to the – the PSD permit
9	A. Yes. I have glanced through and reviewed	9	in turning to the second page of the exhibit, there's a
10	briefly the permit that is contained in here.	10	letter dated October 5, 2010, from Kendall Hale to – to ADM.
11	Q. And by "permit," what pages are you referring	11	A. Yes.
12	to?	12	Q. And I think you mentioned Kendall this morning
13	A. The cover letter of October 5th, 2010, letter,	13	as well. As of the date of this letter, he was the new
14	DNR letter and then the following pages start the official	14	source review unit chief?
15	permit to construct to Arthur Daniels Midland.	15	A. That's correct.
16	Q. Okay. And does the official permit to	16	Q. And that letter identifies Michael Mittermeyer
17	construct extend through page – page 29, which is	17	as the contact person?
18	Bates-stamp No. AM00442891?	18	A. That's correct.
19	A. That is the permit, that's correct, and then	19	Q. So would Michael Mittermeyer have been
20	there's an attachment following that that would also be	20	involved in this permitting process?
21	considered part of the permit that is the ambient air quality	21	A. Yes, he would have been the permit reviewer
22	and analysis.	22	for this project.
23	Q. Okay. And that takes us through	23	Q. We turn to page 29 of the PSD permit which is
24	Bates-stamp that attachment takes us through Bates-stamp	24	00442891.
25	No. 2896; correct?	25	A. Yes.
	Page 211		. Page 213
1	A. That's correct.	1	Q. Does that appear to you to be Michael
2	Q. And after that is a letter to MDNR excuse	2	Mittermeyer's signature?
3	me, from MDNR to ADM dated March 27, 2007. Is that also a	3	A. Yes, it does.
4	part of the permit?	4	Q. And did Michael Mittermeyer draft the text of
5	A. That would be prior to the permit issuance.	5	the PSD permit?
6	It's 2007. So this is a discussion of their preconstruction	6	A. Yes.
7	monitoring, I believe, or the modeling analysis. Yeah, this	7	Q. And did he do the emission calculations that
8	is for this is prior to their permit.	8	are reflected in the PSD permit?
9	Q. Okay. So what do what portion of this	9	A. Yes.
10	exhibit, then, do you view to be the PSD permit?	10	Q. And what was his position at the time of this
11	A. Well, including the cover letter, which is	11	PSD permit?
12	00442862	12	A. He was an environmental engineer in the
13	Q. Uh-huh.	13	construction permit for new source review unit.
14	A and then through the ambient air quality	14	Q. And can you tell from this information or do
15	analysis, which ends the 00442896.	15	you otherwise know what level he was? I think you mentioned
16	Q. Okay. Thank you. The first page of this	16	this morning there were Is, IIs, and IIIs?
17	exhibit was a looked like a file cover as as produced	17	A. At this time, I'm not sure because he was an
18	to us?	18	engineer II and then passed his PE and became an engineer
19 20	A. Yes.	19	III. I don't recall if this was if he was a PE at this
20	Q. Does that look like the file in which the PSD	20	time or not.
21	permit and related materials were contained?	21	Q. And do you know when Mr. Meyer Mr.
22	A. Yes, this is a copy of our file folder from	22	Mittermeyer started with MDNR?
23	the file room, it looks like.	23	A. I don't know the dates of his start time. He
24	Q. And are separate files kept for each PSD	24	worked for the program about five years and has been gone
		05	
25	permit issued?	25	about two, so he had been with the program several years by

54 (Pages 210 to 213)

Case No. EF-2024-0021 Schedule CME-r8, Page 54 of 136

	Page 214		Page 216
1	this time, based on my estimations.	1	the permit, would Kendall have been involved in those?
2	Q. Okay. And do you know where Mr. Mittermeyer	2	A. Typically, the project engineer does all the
3	currently works?	3	calculations. If they have questions or need assistance or
4	A. He's with a consulting firm in St. Louis, but	4	guidance, they frequently ask their co-workers and their
5	I don't remember which one.	5	supervisor, so he may have been – he was involved in, you
б	Q. Okay. And do you know why he left MDNR?	6	know, provided oversight and any guidance that Mike needed,
7	A. His wife wanted to live somewhere besides Jeff	7	but it would have been Mike's draft.
8	City.	8	Q. And were you personally involved in this
9	Q. I'll reserve comment on that.	9	permitting action?
10	A. Yeah.	10	A. I was aware of it as I am of most PSD projects
11	Q. Based upon your review of this exhibit and	11	because they are major permits, but most of the technical
12	your – and your preparation for the deposition, do you know	12	review and oversight would have been done by Mike and/or
13	what project ADM was proposing that is the subject of the	13	Kendall.
14	permitting action? And if it helps, there's a project	14	Q. Now, as you mentioned, there's – there's a
15	description on page 14.	15	document late in this exhibit that was dated I think in 2007.
16	A. Yes, that's what I rely on because I review a	16	A. Yes.
17	lot of projects, especially for this deposition. They were	17	Q. And the PSD permit is issued in October, 2010?
18	expanding their oil extraction plant and this is the facility	18	A. Yes.
19	in Mexico, Missouri.	19	Q. So I guess this permit took – took more than
20	Q. Mexico, Missouri?	20	two and a half years to to issue; is that correct?
21	A. Yes, sony.	21	A. Based on the project number of the application
22	Q. I was wondering if your jurisdiction was	22	it was received in May of 2007, that's correct, and issued in
23	reaching - reaching -	23	October of 2000 - well, October, 2010, yes.
24	A. No, Mexico, Missouri.	24	Q. Now, the this PSD permit not only applied
25	Q. You said they were expanding their plant?	25	PSD requirements with respect to certain pollutants but also
	Page 215		, Page 217
1	Page 215 A. Yes.	1	Page 217
1 2	_	1 2	、 、
	A. Yes.		made non-applicability determinations with respect to others;
2	A. Yes.Q. And so I don't forget, the second page of the	2	made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table
2 3	A. Yes.Q. And so I don't forget, the second page of the permit with the title permit to construct	2 3	made non-applicability determinations with respect to others; correct? A. Yes.
2 3 4	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. 	2 3 4	made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table
2 3 4 5	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for 	2 3 4 5	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD
2 3 4 5 6	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of 	2 3 4 5 6	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit.
2 3 4 5 6 7	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? 	2 3 4 5 6 7	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay.
2 3 4 5 6 7 8	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. 	2 3 4 5 6 7 8	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per
2 3 5 6 7 8 9	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? 	2 3 4 5 6 7 8 9	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the
2 3 4 5 6 7 8 9	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is 	2 3 4 5 6 7 8 9 10 11 12	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay.
2 3 4 5 7 8 9 10 11	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? 	2 3 4 5 6 7 8 9 10 11	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the
2 3 4 5 6 7 8 9 10 11 12	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. 	2 3 4 5 6 7 8 9 10 11 12 13 14	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table.
2 3 4 5 6 7 8 9 10 11 12 13	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale involved in the permitting action? 	2 3 4 5 6 7 8 9 10 11 12 13	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the required – excuse me, regulatory De Minimus levels in
2 3 4 5 6 7 8 9 10 11 12 13 14	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the
2 3 4 5 7 8 9 10 11 12 13 14 15	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale involved in the permitting action? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the required – excuse me, regulatory De Minimus levels in
2 3 4 5 7 8 9 10 11 12 13 14 15 16	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale involved in the permitting action? A. Yes, he would have been involved as the new 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the required – excuse me, regulatory De Minimus levels in columns second from the right, are those the PSD significance
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale involved in the permitting action? A. Yes, he would have been involved as the new source reviewer construction permit unit chief, especially on 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the required – excuse me, regulatory De Minimus levels in columns second from the right, are those the PSD significance thresholds?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director; yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale involved in the permitting action? A. Yes, he would have been involved as the new source reviewer construction permit unit chief, especially on a PSD review. He would have been involved in the analysis 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the required – excuse me, regulatory De Minimus levels in columns second from the right, are those the PSD significance thresholds? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale involved in the permitting action? A. Yes, he would have been involved as the new source reviewer construction permit unit chief, especially on a PSD review. He would have been involved in the analysis and assisting and supervising Mike Mittermeyer's review. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the required – excuse me, regulatory De Minimus levels in columns second from the right, are those the PSD significance thresholds? A. Yes. Q. And the next column is existing potential
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale involved in the permitting action? A. Yes, he would have been involved as the new source reviewer construction permit unit chief, especially on a PSD review. He would have been involved in the analysis and assisting and supervising Mike Mittermeyer's review. Q. Do you know if he was involved in preparation 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the required – excuse me, regulatory De Minimus levels in columns second from the right, are those the PSD significance thresholds? A. Yes. Q. And the next column is existing potential emissions. Is that the potential emissions of the entire
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale involved in the permitting action? A. Yes, he would have been involved as the new source reviewer construction permit unit chief, especially on a PSD review. He would have been involved in the analysis and assisting and supervising Mike Mittermeyer's review. Q. Do you know if he was involved in preparation of the narrative of the PSD permit? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the required – excuse me, regulatory De Minimus levels in columns second from the right, are those the PSD significance thresholds? A. Yes. Q. And the next column is existing potential emissions. Is that the potential emissions of the entire source? A. The – yes, it would be the potential emissions of the entire
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Yes. Q. And so I don't forget, the second page of the permit with the title permit to construct A. Yes. Q and it's 863, there's a signature line for the director. Does that appear to you to be the signature of James Cavanaugh? A. That's correct. Q. And I think you indicated before, but PSD permits for issuance needed to be signed by the director; is that is that correct? A. All permits are signed by the director, yes. Q. And other than issuing the cover letter of October 5, 2010, to ADM with the PSD permit, was Kendall Hale involved in the permitting action? A. Yes, he would have been involved as the new source reviewer construction permit unit chief, especially on a PSD review. He would have been involved in the analysis and assisting and supervising Mike Mittermeyer's review. Q. Do you know if he was involved in preparation of the narrative of the PSD permit? A. No, Mike would have drafted that narrative. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 made non-applicability determinations with respect to others; correct? A. Yes. Q. And I'd like to turn your attention to table 11. It's on page 27 of the internal numbering on the PSD permit. A. Okay. Q. And the heading is emission summary tons per year. A. Okay. Q. And I'd like to ask some questions about the columns that are in this table. A. Okay. Q. The first question I have for you is the required – excuse me, regulatory De Minimus levels in columns second from the right, are those the PSD significance thresholds? A. Yes. Q. And the next column is existing potential emissions. Is that the potential emissions of the entire source? A. The – yes, it would be the potential

55 (Pages 214 to 217)

Case No. EF-2024-0021 Schedule CME-r8, Page 55 of 136

	Page 218		Page 220
1	A. That's correct.	1	entitled prevention of significant deterioration PSD
2	Q. And the next column is existing actual	2	applicability that ADM chose to exclude PM and PM ton
3	emissions parens 2009 EIQ. What's the EIQ?	3	emissions, that the certain equipment could have accommodated
4	A. I think it's 2008, unless it's	4	prior to the expansion.
5	Q. Oh, I'm sorry, I think you're right?	5	Q. And then it goes on to say ADM calculated
б	A. The shading affects it. The EIQ is stands	6	these emissions by determining the highest monthly crush rate
7	for emission inventory questionnaire. It is the	7	during the baseline period and extrapolating the rate to an
8	questionnaire that every polluted pollutant source in	8	annual rate. Do you see that?
9	Missouri that is required to, anyway, submits to us annually	9	A. That's correct.
10	or every three years. The smaller sources don't have to do	10	Q. And was that calculation, then, by ADM
11	it annually. And basically, they report their annual	11	accepted by MDNR and used in the capable of accommodating
12	emissions by this questionnaire and we maintain that document	12	column in table 11?
13	and that is where these numbers are from.	13	A. Yes.
14	Q. Are those are those relevant to the PSD	14	Q. And does the term "could have accommodated"
15	applicability assessment?	15	have a particular regulatory meaning within 40 CFR 52.21?
16	A. The actual emissions, it's I'd have to read	16	A. Yes, his explanation is this increase over the
17	the emission factors. Existing actual emissions of the	17	baseline emissions was subtracted as allowed by 52.21, so
18	installation were taken from the 2008 EIQ. Baseline actual	18	yes.
19	emissions were calculated using the emission factors	19	Q. So Mr. Mittermeyer was subtracting from the
20	described above. So it's relevant to the facility and their	20	projected actual emissions the amount that the unit could
21	actual emissions but it does not look like the 2008 actual	21	have accommodated?
22	emissions were used in this analysis. They used the baseline	22	A. That's correct.
23	of 2005 to 2006.	23	Q. Well let's go to table 11 and maybe do a
24	Q. Okay. And the baseline actual emissions as	24	little math and make sure we understand this correctly. If
25	you say from 2005 and 2006 were calculated?	25	we go to the row with with PM, we have baseline actual
20	you say non 2005 and 2000 were calculated.		we go to the fow white white first, we have outseline declar
	Page 219		Page 221
1	A Vec	1	emissions of 77.14 tons?
1 2	A. Yes. O And Mr. Mittermeyer would have made those	1	emissions of 77.14 tons?
2	Q. And Mr. Mittermeyer would have made those	2	A. That's correct.
2 3	Q. And Mr. Mittermeyer would have made those calculations?	2 3	A. That's correct.Q. Projected actual emissions of 103.61 tons?
2 3 4	Q. And Mr. Mittermeyer would have made those calculations?A. That's correct.	2 3 4	A. That's correct.Q. Projected actual emissions of 103.61 tons?A. Right.
2 3 4 5	Q. And Mr. Mittermeyer would have made those calculations?A. That's correct.Q. There are also projected actual emissions,	2 3 4 5	A. That's correct.Q. Projected actual emissions of 103.61 tons?A. Right.Q. And if we subtract the actual from the
2 3 4 5 6	Q. And Mr. Mittermeyer would have made those calculations?A. That's correct.Q. There are also projected actual emissions, that's the next column over?	2 3 4 5 6	 A. That's correct. Q. Projected actual emissions of 103.61 tons? A. Right. Q. And if we subtract the actual from the projected, we get 26.47; correct?
2 3 4 5 6 7	 Q. And Mr. Mittermeyer would have made those calculations? A. That's correct. Q. There are also projected actual emissions, that's the next column over? A. Right. 	2 3 4 5 6 7	 A. That's correct. Q. Projected actual emissions of 103.61 tons? A. Right. Q. And if we subtract the actual from the projected, we get 26.47; correct? A. Right.
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2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. And Mr. Mittermeyer would have made those calculations? A. That's correct. Q. There are also projected actual emissions, that's the next column over? A. Right. Q. And do you know the methodology by which those emissions were projected? A. According to the permit, it was they were calculated using emission factors and projected throughputs provided by ADM. Q. And the next column is could have accommodated emissions? 	2 3 4 5 6 7 8 9 10 11 12 13 14	 A. That's correct. Q. Projected actual emissions of 103.61 tons? A. Right. Q. And if we subtract the actual from the projected, we get 26.47; correct? A. Right. Q. Now that would be above the PSD significance threshold for PM; correct? A. That's correct. Q. So without an adjustment for what could have been accommodated for this particular proposed activity, ADM would have been subject to PSD for PM; correct? A. That's correct. A. That's correct.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. And Mr. Mittermeyer would have made those calculations? A. That's correct. Q. There are also projected actual emissions, that's the next column over? A. Right. Q. And do you know the methodology by which those emissions were projected? A. According to the permit, it was they were calculated using emission factors and projected throughputs provided by ADM. Q. And the next column is could have accommodated emissions? A. Yes. Q. Could you explain what could have accommodated 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 A. That's correct. Q. Projected actual emissions of 103.61 tons? A. Right. Q. And if we subtract the actual from the projected, we get 26.47; correct? A. Right. Q. Now that would be above the PSD significance threshold for PM; correct? A. That's correct. Q. So without an adjustment for what could have been accommodated for this particular proposed activity, ADM would have been subject to PSD for PM; correct? A. That's correct. Q. But MDNR went on to subtract 9.23 tons of emissions of PM emissions that could have been
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. And Mr. Mittermeyer would have made those calculations? A. That's correct. Q. There are also projected actual emissions, that's the next column over? A. Right. Q. And do you know the methodology by which those emissions were projected? A. According to the permit, it was – they were calculated using emission factors and projected throughputs provided by ADM. Q. And the next column is could have accommodated emissions? A. Yes. Q. Could you explain what could have accommodated emissions means? A. I would hope that he would have explained that because I'm not. Q. Maybe if we go to page 14, that might provide some help. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 A. That's correct. Q. Projected actual emissions of 103.61 tons? A. Right. Q. And if we subtract the actual from the projected, we get 26.47; correct? A. Right. Q. Now that would be above the PSD significance threshold for PM; correct? A. That's correct. Q. So without an adjustment for what could have been accommodated for this particular proposed activity, ADM would have been subject to PSD for PM; correct? A. That's correct. Q. But MDNR went on to subtract 9.23 tons of emissions of – PM emissions that could have been accommodated from the 26.47 to yield 17.24 tons; is that correct? A. That's correct. Q. And so the net result after subtracting out the could have accommodated PM emissions was that PSD was not
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56 (Pages 218 to 221)

Case No. EF-2024-0021 Schedule CME-r8, Page 56 of 136

	Page 222		Page 224
1	Q. Do you know if there were any communications	1	A. I did.
2	between US EPA and MDNR regarding the ADM permitting action	2	Q. And what is the document that comprises this
3	reflected in this permit in advance of permit issuance?	3	permit?
4	A. Specific conversations, I can't detail, but	4	A. This is a permit issued to Dogwood Energy. It
5	based on my experience in PSD permits, there's always	5	is what we would consider a De Minimus permit under our
б	communication between us and EPA during a PSD application	6	construction permit rules, section 5.
7	process.	7	Q. And what do you mean by De Minimus permit?
8	Q. And a public notice version of the PSD permit	8	A. It is a permit to an existing major source in
9	would have been sent to US EPA -	9	this situation, but it did, for various reasons, was not a
10	A. That's correct.	10	PSD permit. The De Minimus permit indicates that the
11 12	Q. – before it went final; correct?	11	emissions of the project with conditions or controls were
13	A. That's correct.	12	below the regulatory De Minimus levels, which are the same as
14	Q. And did US EPA provide any comments including	13	the federal significance levels.
15	any objections back to MDNR regarding the PSD permit issued	14	Q. Okay. So the Dogwood Energy facility at issue
16	to ADM? A. Without the file in property of me, I would	15	in this permit was a major source?
17	say most likely yes, because again, most PSD permit	16	A. Yes.
18	applications do receive comments instead of – we have that	17 18	Q. And there's a determination of PSD
19	in here.	18	non-applicability that in this minor De Minimus permit; is
20	Q. So you're not aware of any – any comments?	20	that correct? A. Yes.
21	A. Well, I said I would speculate that there were	20	
22	comments, I just don't see them here because most PSD	22	Q. And what was the the change to the existing stationary source that was proposed and permitted in this De
23	projects we did receive comments from EPA, but.	23	Minimus permit?
24	Q. And if we had specific questions about how,	24	A. This was an upgrade to some existing combined
25	for instance, the 9.23 tons of could have accommodated PM	25	cycle turbines, combustion turbines that as related in the
			-,
	Page 223		Page 225
1	emissions was determined	1	project description on page 9 of the permit, accommodation of
2	A. Uh-huh.	2	hardware and control logic changes intended to increase
3	Q who would who would you ask that	3	efficiency and output of the gas and steam turbine
4	question of at this point?	4	generators.
5	A. I would look at the file review since Mike	5	Q. On the first page of this exhibit, there's a
6	Mittermeyer is not there anymore, and see if there were	-	
		6	signature block for the director of the Department of Natural
7	calculations in the file. Also, since it was provided by	6 7	signature block for the director of the Department of Natural Resources. And do you recognize that to be James Cavanaugh's
7 8	calculations in the file. Also, since it was provided by ADM, there were most likely calculations in the file from ADM	7	· ·
8 9	ADM, there were most likely calculations in the file from ADM supporting that nine tons.	7 8 9	Resources. And do you recognize that to be James Cavanaugh's signature? A. That's correct.
8 9 10	ADM, there were most likely calculations in the file from ADM supporting that nine tons. Q. Oh, by the way, one related question, I	7 8 9 10	Resources. And do you recognize that to be James Cavanaugh's signature? A. That's correct. Q. And so does this permit to be the final and
8 9 10 11	ADM, there were most likely calculations in the file from ADM supporting that nine tons.Q. Oh, by the way, one related question, I believe there was a spreadsheet or spreadsheets that	7 8 9 10 11	Resources. And do you recognize that to be James Cavanaugh's signature? A. That's correct. Q. And so does this permit to be the final and effective De Minimus permit for Dogwood?
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 ADM, there were most likely calculations in the file from ADM supporting that nine tons. Q. Oh, by the way, one related question, I believe there was a spreadsheet or spreadsheets that Mr. Mittermeyer prepared with respect to this permit; is that correct? A. Yes, I would say. Q. Would it have detailed his calculations? A. That's correct. (Exhibit No. 22 was marked for identification.) BY MR. BONEBRAKE: Q. I'm showing you what's been marked as Deposition Exhibit No. 22 for identification. Have you had a chance to take look at this exhibit? 	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Resources. And do you recognize that to be James Cavanaugh's signature? A. That's correct. Q. And so does this permit to be the final and effective De Minimus permit for Dogwood? A. That's correct. Q. And on the second to last page, there is a staff recommendation with Emily Wilber's name? A. Yes, that's correct. Q. And is she an environmental engineer with MDNR? A. That's correct. Q. And what level engineer was she at the time that she signed this? A. In 2009, Emily would have been an environmental engineer III with a PE license.

57 (Pages 222 to 225)

Case No. EF-2024-0021 Schedule CME-r8, Page 57 of 136

	Page 226		Page 228
1	our SIP, state implementation plan, unit chief in our	1	Q. You indicated that Dogwood took a permit limit
2	planning section.	2	on potential emissions. Would that limit, then, be reflected
3	Q. And when did she start with MDNR?	3	in the PTE number in the third column from the left in this
4	A. She has worked for the Department for about 12	4	table?
5	years, so that would be about 2001.	5	A. The easiest way to look at the limit is
6	Q. Now looking at page 9 of the permit.	6	actually on page 7 of the permit, which is the special
7	A. Uh-huh.	7	condition which would be the enforceable part of the permit.
8	Q. The upgrade that was proposed resulted in an	8	Q. Okay.
9	overall power output increase in plant of approximately 29	9	A. The rest of the permit tries to explain the
10	megawatts; is that correct?	10	permit conditions. I think it's easier to understand when
11	A. That's correct.	11	you look at the condition on what they are limited to, which
12	Q. And then it goes on to note that these	12	on page 7 of the permit, No. 25, Condition No. 25 says,
13	upgrades have resulted in increase in potential emissions and	13	Dogwood shall not exceed the future actual emissions used to
14	they're considered modifications under construction permits?	14	determine the projected actual emissions of this project.
15	A. That's correct.	15	And it lists out the different levels for the different
16	Q. On page 10, did MDNR use the	16	pollutants. And these levels match the existing potential
17	actual-to-projected-actual emission test to determine PSD	17	emission in the table 1.
18	applicability for the project at issue in this permit?	18	Q. Okay. So let me – let me see if I can
19	A. Yes.	19	summarize this so I understand. There was an existing PTE
20	Q. And did that include application of the could	20	limit for the source; correct?
21	have accommodated provision of the actual-to-projected-actual	21	A. I don't know that this was a limit. This was
22	test?	22	the potential emissions of this source prior to this permit.
23	A. Yes, it did.	23	Q. Prior to this permit?
24	Q. In the third paragraph, the last sentence	24	A. Yes.
25	reads, therefore the maximum future actual emissions will be	25	Q. Okay. So the – and the source agreed to take
-	Page 227		Page 229
1	the same as the potential emissions found in Permit	1	a limit in the permit that would hold the future emissions of
2	the same as the potential emissions found in Permit No. 0899-030.	2	a limit in the permit that would hold the future emissions of the source consistent with the potential emissions of the
2 3	the same as the potential emissions found in Permit No. 0899-030. A. That's correct.	2 3	a limit in the permit that would hold the future emissions of the source consistent with the potential emissions of the source prior to the permitting action?
2 3 4	the same as the potential emissions found in Permit No. 0899-030. A. That's correct. Q. Can you explain for us why that would be the	2 3 4	a limit in the permit that would hold the future emissions of the source consistent with the potential emissions of the source prior to the permitting action? A. Right.
2 3 4 5	the same as the potential emissions found in PermitNo. 0899-030.A. That's correct.Q. Can you explain for us why that would be the case, that the maximum future actual emissions and the	2 3 4 5	a limit in the permit that would hold the future emissions of the source consistent with the potential emissions of the source prior to the permitting action?A. Right.Q. And that level of potential emissions was
2 3 4 5 6	 the same as the potential emissions found in Permit No. 0899-030. A. That's correct. Q. Can you explain for us why that would be the case, that the maximum future actual emissions and the potential emissions in the prior permit would be the same? 	2 3 4 5 6	 a limit in the permit that would hold the future emissions of the source consistent with the potential emissions of the source prior to the permitting action? A. Right. Q. And that level of potential emissions was considerably above the actual emissions of the source,
2 3 4 5 6 7	 the same as the potential emissions found in Permit No. 0899-030. A. That's correct. Q. Can you explain for us why that would be the case, that the maximum future actual emissions and the potential emissions in the prior permit would be the same? A. Dogwood requested that voluntary limit, if you 	2 3 4 5 6 7	 a limit in the permit that would hold the future emissions of the source consistent with the potential emissions of the source prior to the permitting action? A. Right. Q. And that level of potential emissions was considerably above the actual emissions of the source, correct?
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58 (Pages 226 to 229)

Case No. EF-2024-0021 Schedule CME-r8, Page 58 of 136

	Page 230		Page 232
1	A. Except we would say the condition is a	1	A. Right, right. As it states here, Dogwood
2	projected actual to match the language in 52.21. The	2	utilized the exclusion of emissions attributed to demand
3	projected actual emissions are what the condition 25 is.	3	growth as stated and allowed in 40 CFR 52.21 when they were
4	Q. Okay. So the projected actual was the level	4	calculating the emissions. This plant had historically
5	of permitted emissions post-project?	5	operated as a small peaking facility and therefore only 24
6	A. Yes.	6	percent of the current capacity. However, they were
7	Q. And that was compared to the potential	7	intending to operate at more than that and by using the
8	emissions pre-project?	8	demand growth exclusion in 52.21 contended that they were
9	A. Yes.	9	fully capable of operating at the maximum, which was the same
10	Q. And that resulted in a zero	10	as the projected actual emissions limit that they accepted,
11	A. Yes.	11	then. So I'm not sure I'm answering your question because
12	O emission increase?	12	I'm not sure what the question was.
13	A. Yes.	13	Q. I think that was very helpful.
14	Q. Was a copy of this permit sent to US EPA?	14	A. Okay.
15	A. I'm not – I'm sure that it was at some point	15	Q. So let me – let me ask you a couple
16	because I know they were involved in this discussion because	16	questions.
17	as you can probably surmise, this was not a normal permit, so	17	A. It was a complicated project at the time, so.
18	this is one case where we would have involved EPA in the	18	Q. So the MDNR's calculated could have
19	discussion of the proposed path forward and the documentation	19	accommodated level was the same as the PTE of the project
20	of this demand growth exclusion, so EPA most likely asked for	20	pre-project – excuse me, PTE of the unit pre-project?
21	and received a copy of the permit.	21	A. We agreed that the potential emissions of the
22	Q. And was the – was the demand growth – strike	22	facility prior to this project was essentially the projected
23	that.	23	actual emissions and that the plant could actually operate at
24	The page 10 in the in addition paragraph?	24	that level and they were accepting that limit as their
25	A. Yes.	25	projected actuals, so yes, I think in answer to your
23	A. 105.		projected actuals, so yes, runnk in answer to your
	Page 231		Page 233
1	Q. In the second sentence, it reads, based on the	1	question.
2	exclusion, Dogwood can exclude emissions that the existing		1
		2	Q. Okay. And so – and so because the source
3	unit could have accommodated prior to the project including	3	could have operated at the permitted level post-project in
4	unit could have accommodated prior to the project including any in including any increased utilization due to product	3 4	could have operated at the permitted level post-project in the in the baseline period, there was no emission
	unit could have accommodated prior to the project including any in including any increased utilization due to product demand growth. Do you see that?	3 4 5	could have operated at the permitted level post-project in the – in the baseline period, there was no emission increase?
4 5 6	unit could have accommodated prior to the project including any in including any increased utilization due to product demand growth. Do you see that? A. Yes.	3 4 5 6	could have operated at the permitted level post-project in the – in the baseline period, there was no emission increase? A. That's correct.
4 5 6 7	unit could have accommodated prior to the project including any in including any increased utilization due to product demand growth. Do you see that? A. Yes. Q. And was the could have accommodated provision	3 4 5 6 7	could have operated at the permitted level post-project in the – in the baseline period, there was no emission increase?
4 5 6 7 8	unit could have accommodated prior to the project including any in including any increased utilization due to product demand growth. Do you see that? A. Yes. Q. And was the could have accommodated provision then the mechanism by which MDNR reached the conclusion that	3 4 5 6 7 8	could have operated at the permitted level post-project in the in the baseline period, there was no emission increase? A. That's correct. MR. BONEBRAKE: All right. Let's take a short break.
4 5 6 7 8 9	unit could have accommodated prior to the project including any in including any increased utilization due to product demand growth. Do you see that? A. Yes. Q. And was the could have accommodated provision then the mechanism by which MDNR reached the conclusion that it could compare potential emissions pre-project to the	3 4 5 6 7 8 9	could have operated at the permitted level post-project in the in the baseline period, there was no emission increase? A. That's correct. MR. BONEBRAKE: All right. Let's take a short break. VIDEOGRAPHER: Okay. We're off the record at
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59 (Pages 230 to 233)

Case No. EF-2024-0021 Schedule CME-r8, Page 59 of 136

	Page 234	Page 236
1	always be attached to the permit, but it would be in the	1 Q. And based upon your review of the exhibit and
2	project file if they submitted comments, yes.	2 any additional preparation that you performed for the
3	Q. And to the extent there was a change required	 deposition, what what was the project for which City
4	to the PSD permit as a result of the comments, that would	4 Utilities sought from MDNR the applicability determination?
5	have been reflected in the final effected version of the PSD	5 A. They were requesting a determination to
6	permit?	6 upgrade there's more detail in their letter than in ours,
7	A. Yes, that's correct.	7 it looks like, upgrade the existing turbine rotor and inner
8	(Exhibit No. 23 was marked for	8 casing and other ancillary provisions on the Southwest Power
9	identification.)	9 Station Unit 1.
10	BY MR. BONEBRAKE:	10 Q. And there's a reference in the City Utilities
11	Q. All right. Showing you what's been marked as	11 letter in the first paragraph, the dense-packed turbine
12	Deposition Exhibit No. 23 for identification.	12 project on our Southwest station. Do you see that?
13	A. Okay. Okay.	13 A. Yes.
14	Q. And have you had a chance to review the pages	14 Q. Was the Southwest station a major source?
15	that comprise this exhibit in preparation for the deposition	15 A. Yes.
16	today?	16 Q. And so it would have been subject to PSD
17	A. Yes, I did.	17 permitting had that station been proposing a modification
18	Q. And what – what is contained in this	18 that triggered PSD; correct?
19	deposition exhibit?	19 A. That's correct.
20	A. This is a letter from MDNR to City Utilities	20 Q. And dense-packed turbine is in initial caps.
21	of Springfield. The permit applicability determination in	21 Do we know does MDNR know if City Utilities was proposing
22	response to your request from them.	22 to replace existing turbines at Unit 1 with dense-packed
23	Q. Okay. And so all the documents in this	23 turbines?
24	exhibit relate to the MDNR applicability determination	A. It says to necessary to support the
25	provided in its letter of July 2, 2008 to City Utilities of	25 dense-packed turbine project, and then they go on to explain
	Page 235	. Page 237
1		,
1 2	Page 235 Springfield? A. Yes.	1 the project includes replacement of an existing unit with an
	Springfield?	1 the project includes replacement of an existing unit with an
2	Springfield? A. Yes.	 the project includes replacement of an existing unit with an enhanced model, redesign the turbine blade and geometry.
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60 (Pages 234 to 237)

Case No. EF-2024-0021 Schedule CME-r8, Page 60 of 136

	Page 238		Page 240
1	BY MR. BONEBRAKE:	1	BY MR. BONEBRAKE:
2	Q. Okay. Well, the second paragraph in the first	2	Q. Okay. Showing you what's been marked as
3	page of of your letter	3	Deposition Exhibit No. 24 for identification.
4	A. Uh-huh.	4	A. Okay.
5	Q the second to last sentence reads, the	5	Q. If you could take a look at that, please.
б	proposed modifications are expected to increase turbine	6	A. Yes.
7	performance without impacting the turbine steam flow.	7	Q. Have you had a chance to review the exhibit?
8	A. Okay.	8	A. Yes.
9	Q. Do you recall what what you meant with the	9	Q. And did you have an opportunity to review any
10	phrase "increased turbine performance?"	10	of the pages that comprise this exhibit in preparation for
11	A. Reading the Utilities letter, it looks like	11	your deposition today?
12	the language was taken almost it says, the last sentence	12	A. I did.
13	in the first paragraph City Utilities letter, the result will	13	Q. And which of the pages did you have a chance
14	be an increase in turbine output without increasing the	14	to review in advance of the deposition?
15	output of the boiler or any increase in any emissions. So	15	A. I reviewed the letter we wrote, the
16	that that is a statement that City Utilities provided to	16	November 18th, 2009, MDNR letter to ADM. I believe I also
17	us. We agreed with their justification enough and put it in	17	reviewed some of the e-mail correspondence on this project as
18	our letter, so we were just restating what the source	18	well as ADM's August 5th, 2009, letter.
19	provided to us.	19	Q. And does the first page of this exhibit
20	Q. And did did MDNR strike that.	20	reflect the - a file cover for the file that contains the
21	What was what was the basis upon which MDNR	21	documents for the applicability determination set forth in
22	determined that no PSD permit would be required for the	22	MDNR's November 18th, 2009, letter?
23	proposed turbine project?	23	A. Yes, that's correct.
24	A. Based on the letter, it was based on the	24	Q. And with respect to the November 18, 2009,
25	projected-actual-to-actual emissions test, which City	25	letter, did you sign that letter?
	Page 239		5 041
	rage 259		. Page 241
1		1	A. Idid.
1 2	Utilities provided to us and then we put the same results in the letter. So it was the projected-actual-to-actual	1 2	· ·
	Utilities provided to us and then we put the same results in		A. I did.
2	Utilities provided to us and then we put the same results in the letter. So it was the projected-actual-to-actual	2	A. I did.Q. And at the time you signed the letter, you
2 3	Utilities provided to us and then we put the same results in the letter. So it was the projected-actual-to-actual emissions test.	2 3	A. I did.Q. And at the time you signed the letter, you were permit section chief?
2 3 4	Utilities provided to us and then we put the same results in the letter. So it was the projected-actual-to-actual emissions test. Q. And you're referring to table 1 of the MDNR	2 3 4	A. I did.Q. And at the time you signed the letter, you were permit section chief?A. That's correct.
2 3 4 5	Utilities provided to us and then we put the same results in the letter. So it was the projected-actual-to-actual emissions test. Q. And you're referring to table 1 of the MDNR letter?	2 3 4 5	A. I did.Q. And at the time you signed the letter, you were permit section chief?A. That's correct.Q. And you were authorized at the time to sign
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61 (Pages 238 to 241)

Case No. EF-2024-0021 Schedule CME-r8, Page 61 of 136

	Page 242		Page 244
1	Q. Now when you say ADM had a permit application	1	projects we would review aggregation for because every
2	pending, are you referring to the application that led to the	2	project is very case by case. And we'll have projects come
3	PSD permit, which is contained in Exhibit 21?	3	in very close to each other and we'll look at the planning
4	A. Yes, that's correct.	4	cycle. I mean, if the facility admits to us when they come
5	Q. Okay. So the question, then, was whether the	5	in for their second project, and maybe unintentionally, by
6	activities at issue in the PSD permit should be considered	6	telling us we've been planning this project for four years,
7	the same project –	7	so it's part of the same planning cycle as the project we
8	A. Right.	8	just submitted, then we may need to review those submissions
9	Q as additional activities that ADM was	9	together for PSD applicability. So technical and economic
10	proposing?	10	interconnection, there's also additional factors in
11	A. Right.	11	aggregation such as planning cycle that EPA provides guidance
12	Q. And are the additional activities that ADM was	12	on.
13	proposing set forth in the first sentence of the MDNR letter	13	Q. Has MDNR issued itself any guidance on when it
14	of November 18, 2009?	14	will or will not aggregate activities?
15	A. Yes, that's correct.	15	A. No. We don't issue guidance per se. We use
16	Q. In looking at the fourth paragraph of the	16	EPA guidance. You know, our staff would have projects
17	November 18, 2009, letter, did MDNR in making its	17	past projects issued available to review for things to look
18	determination regarding whether aggregation was necessary	18	for. But we would rely on EPA guidance primarily. We have
19	look at whether the respective activities were technically or	19	not drafted our own.
20	economically interconnected?	20	Q. Other than this applicability determination,
21	A. We would follow EPA's guidance on aggregation	21	the November 18, 2009 applicability determination which
22	on projects, so yes, that is one of the pieces of aggregation	22	utilized the technical or economic interconnection approach,
23 24	that EPA provides guidance on is how the projects are related	23	are you aware of other MDNR applicability determinations that
24 25	by cost, economic relationships, so yes.	24 25	sets forth the approach the aggregation that MDNR is is
20	Q. So in this case, MDNR was – was focused on	25	using in a applicability determination?
	Page 243		
	Page 245		. Page 245
1		1	· ·
1 2	the issue of technical or economic interconnection; correct? A. Yes.	1 2	· · · · · · · · · · · · · · · · · · ·
	the issue of technical or economic interconnection; correct?		A. Specifically I would have trouble listing out
2	the issue of technical or economic interconnection; correct? A. Yes.	2	A. Specifically I would have trouble listing out all the projects that we have used aggregation on. This is a
2 3	the issue of technical or economic interconnection; correct?A. Yes.Q. And did MDNR end up then concluding that under	2 3	A. Specifically I would have trouble listing out all the projects that we have used aggregation on. This is a topic that comes up a lot in permit projects, whether the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 the issue of technical or economic interconnection; correct? A. Yes. Q. And did MDNR end up then concluding that under the technical or economic interconnection interconnection test that the activities at issue in the PSD permit should not be aggregated with the additional activities that ADM was proposing as described in the November 18, 2009, letter? A. Yes, that's correct. Q. Has MDNR used the technical or economic interconnection standard to determine whether other proposed projects should be aggregated? A. Yes. Q. And has that been the standard by which MDNR has made aggregation determinations? A. Yes, that is our factors in aggregated projects. Q. Well, let me make sure I understand that. A. Uh-huh. Q. There's a difference between using technical or economic interconnection as the standard and as using it as part of the standard. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Specifically I would have trouble listing out all the projects that we have used aggregation on. This is a topic that comes up a lot in permit projects, whether the project should be aggregated, if we have a project for a facility – facility A, for example, and we did a project six months prior, when we get that new application, we're going to look back at the permit we issued six months ago and determine whether we need to consider the emissions together. So it's – it's a common occurrence for us to look at aggregation, so I'm not sure I can answer your question specifically. Q. Well, is there – is there a source that – that – or location of – of guidance or standards that sources in Missouri can – can go to to look at to say yes, this is how MDNR will look at the aggregation question, you know, for purposes of their own assessment of projects? A. Yes, we would refer sources to EPA's NSR database. That is the resource our staff use. That's where – it's a database of documents from EPA. There is a lot of guidance in that. In addition to the aggregation, there is other topics there as well, but we would refer sources to that, since we use EPA's guidance.

62 (Pages 242 to 245)

Case No. EF-2024-0021 Schedule CME-r8, Page 62 of 136

	Page 246		Page 248
1	A. That's correct, yes.	1	Q. The second paragraph in the March 8th, 2010,
2	(Exhibit No. 25 was marked for	2	letter provides a description of the post-project; is that
3	identification.)	3	correct?
4	BY MR. BONEBRAKE:	4	A. Yes.
5	Q. Okay. We're showing you what's been marked as	5	Q. And is the description there of the project
б	Deposition Exhibit No. 25 for identification.	6	accurate to MDNR's knowledge?
7	A. Okay.	7	A. Yes.
8	Q. Have you had a chance to review the exhibit?	8	Q. The first sentence in the second paragraph
9	A. Yes.	9	refers to BBI as being not a base-loaded unit, a non-base
10	Q. And in preparation for the deposition today,	10	loaded unit?
11	did you have an opportunity to review any of the pages that	11	A. That's correct.
12	comprise this exhibit?	12	Q. Are you familiar with the term "base load?"
13	A. I did.	13	A. Yes.
14	Q. And which of the pages?	14	Q. And what does that term mean?
15	A. It all looks familiar, so I think I probably	15	A. I probably won't do the technical most
16	reviewed other than the permit fee worksheet was not in	16	technical term, but a base load unit is one that is operating
17	the documents I reviewed, but I've seen the e-mails traffic,	17	the majority of the time to provide power.
18	and Independence Power & Light's letter and our letter in	18	Q. And the power plant at which these the
19	response.	19	proposed project was was going to take place, was that a
20	Q. And what are the the documents that	20	major source?
21	comprise this exhibit?	21 22	A. Yes.
22	A. This is the March 8th, 2010, letter from the	22	Q. So if the proposed project met the
23 24	Department of Natural Resources to Independence Power & Light	23	requirements for a modification, it would be subject to PSD permitting; is that correct?
24	responding to a request for a permit determination from Independence Power & Light on December 26th, 2009. They're	25	A. That's correct.
25	independence i ower at Light on Decentrer 2001, 2007. They re	2.5	A. mais concel.
	Page 247		Page 249
1	requesting a permit determination based on a project	1	Q. Now you note in the third paragraph on the
2	replacing boiler tubes and steam generator tubes.	2	first page of the letter that the project was not evaluated
3	Q. And did MDNR determine that no construction	3	from RMRR; is that correct?
4	permit of any kind would be required for the project proposed		
5		4	A. That's correct.
J	by Independence Power & Light?	4	 A. That's correct. O. We earlier looked at a document that set forth
6	by Independence Power & Light? A. Yes, based on the information provided, we		Q. We earlier looked at a document that set forth
	A. Yes, based on the information provided, we	5	
б	A. Yes, based on the information provided, we said no permit is required.	5 6	Q. We earlier looked at a document that set forth a number of factors relating to an RMRR determination?
6 7	A. Yes, based on the information provided, we said no permit is required.	5 6 7	Q. We earlier looked at a document that set forth a number of factors relating to an RMRR determination?A. That's correct.
6 7 8	A. Yes, based on the information provided, we said no permit is required.Q. And on page 2 of the MDNR's March 8th, 2010,	5 6 7 8	Q. We earlier looked at a document that set fortha number of factors relating to an RMRR determination?A. That's correct.Q. And was – was that letter addressing the RMRR
6 7 8 9	A. Yes, based on the information provided, we said no permit is required.Q. And on page 2 of the MDNR's March 8th, 2010, letter, there is a signature block?	5 6 7 8 9	 Q. We earlier looked at a document that set forth a number of factors relating to an RMRR determination? A. That's correct. Q. And was was that letter addressing the RMRR issue that MDNR in this letter said it was not addressing?
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Yes, based on the information provided, we said no permit is required. Q. And on page 2 of the MDNR's March 8th, 2010, letter, there is a signature block? A. Yes. Q. And is that your signature? A. Yes. Q. And you were then the permit section chief? A. Yes. Q. And authorized to issue applicability determinations at that time? A. Yes. Q. And was David Little the drafter of the MDNR March 8th, 2010 letter? A. Yes, that's correct. Q. Is he currently with MDNR? A. Yes, he is. 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. We earlier looked at a document that set forth a number of factors relating to an RMRR determination? A. That's correct. Q. And was – was that letter addressing the RMRR issue that MDNR in this letter said it was not addressing? MR. HANSON: Objection, lack of foundation. THE WITNESS: We didn't address – there are – I would have to get the exhibit back out, but there are two different Independence Power & Light facilities: Blue Valley and Missouri City. And there were multiple projects, but the letter that we were reviewing earlier said that we – if you wanted to – us to determine if it's routine maintenance and repair, then these are the factors that you need to present information on. We didn't make a determination. BY MR BONEBRAKE: Q. Okay. Thank you for that clarification. A. Yes.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. Yes, based on the information provided, we said no permit is required. Q. And on page 2 of the MDNR's March 8th, 2010, letter, there is a signature block? A. Yes. Q. And is that your signature? A. Yes. Q. And you were then the permit section chief? A. Yes. Q. And authorized to issue applicability determinations at that time? A. Yes. Q. And was David Little the drafter of the MDNR March 8th, 2010 letter? A. Yes, that's correct. Q. Is he currently with MDNR? A. Yes, he is. Q. What is his position? 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. We earlier looked at a document that set forth a number of factors relating to an RMRR determination? A. That's correct. Q. And was – was that letter addressing the RMRR issue that MDNR in this letter said it was not addressing? MR. HANSON: Objection, lack of foundation. THE WITNESS: We didn't address – there are I would have to get the exhibit back out, but there are two different Independence Power & Light facilities: Blue Valley and Missouri City. And there were multiple projects, but the letter that we were reviewing earlier said that we if you wanted to us to determine if it's routine maintenance and repair, then these are the factors that you need to present information on. We didn't make a determination. BY MR BONEBRAKE: Q. Okay. Thank you for that clarification. A. Yes. Q. And so what – what was the basis upon which
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. Yes, based on the information provided, we said no permit is required. Q. And on page 2 of the MDNR's March 8th, 2010, letter, there is a signature block? A. Yes. Q. And is that your signature? A. Yes. Q. And you were then the permit section chief? A. Yes. Q. And authorized to issue applicability determinations at that time? A. Yes. Q. And was David Little the drafter of the MDNR March 8th, 2010 letter? A. Yes, that's correct. Q. Is he currently with MDNR? A. Yes, he is. 	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. We earlier looked at a document that set forth a number of factors relating to an RMRR determination? A. That's correct. Q. And was – was that letter addressing the RMRR issue that MDNR in this letter said it was not addressing? MR. HANSON: Objection, lack of foundation. THE WITNESS: We didn't address – there are – I would have to get the exhibit back out, but there are two different Independence Power & Light facilities: Blue Valley and Missouri City. And there were multiple projects, but the letter that we were reviewing earlier said that we – if you wanted to – us to determine if it's routine maintenance and repair, then these are the factors that you need to present information on. We didn't make a determination. BY MR BONEBRAKE: Q. Okay. Thank you for that clarification. A. Yes.

63 (Pages 246 to 249)

Case No. EF-2024-0021 Schedule CME-r8, Page 63 of 136

	Page 250		Page 252
1	A. This – it was based, I believe, if not the	1	As you know, my name's Andrew Hanson and I'm counsel for
2	projected-actual-to-actual emissions it says, in order to	2	plaintiff United States in this case.
3	demonstrate this project is not a major modification and no	3	A. Yes.
4	permit is required, Independence Power & Light Blue Valley	4	Q. I have a number of questions I wanted to
5	shall keep records for baseline and future actual emissions	5	follow-up with you on regarding your testimony today.
6	as outlined in 40 CFR 52.21.	6	A. Okay.
7	So that was indicating the	7	Q. Mr. Bonebrake, counsel for Ameren Missouri,
8	projected-actual-to-actual in this test, and that's the third	8	had asked a series of questions about Missouri's
9	paragraph of the letter. And then the fourth paragraph goes	9	implementation of the Federal Clean Air Act through the
10	on to calculate the cost and then it is below the 50 percent	10	Missouri state implementation plan. Do you recall that?
11	level required to meet the definition of reconstruction under	11	A. Yes, that's correct.
12	the NSPS.	12	Q. Okay. Now, Missouri implements major source
13	Q. Was there any actual-to-actual-projected	13	PSD requirements through the EPA-approved state
14	assessment actually performed by MDNR?	14	implementation plan at 10 CSR 10-6.060 section 8; is that
15	A. It is not included. We were just asking the	15	correct?
16	source to make that request and based on the e-mail	16	A. That's correct.
17	communication contained, that is something that we wanted to	17	Q. Okay. Now, does Missouri DNR follow EPA
18	ask them to do to verify that it was not PSD. So that is	18	guidance in implementing the SIP?
19	calculations Independence Power & Light needs to make on	19	A. Yes, we do.
20	their own, yes.	20	Q. Okay. What are the sources of that EPA
21	Q. I'm sorry, so at the time, then, that the MDNR	21	guidance that Missouri DNR follows?
22	non-applicability no applicability determination letter	22	A. There are multiple sources. I'd say the main
23	was – strike that.	23	most used source is the NSR database that EPA maintains,
24	At the time the no permit required letter was	24	which is a database of various documents on a variety of
25	issued by MDNR, there had been no actual-to-projected-actual	25	topics that EPA has compiled over the years. There are
	Page 251		. Page 253
1	emission assessment by the company or MDNR?	1	probably 30 years of documents in that database. The other
2	A. That is correct.	2	guidance is from EPA or was that the question, from EPA?
3	Q. And was MDNR then relying upon the records of	3	Q. Yeah.
4	actual emissions post-project to determine whether or not PSD	4	A. The other guidance, then, probably most
5	would be triggered?	5	important is just the verbal guidance that we receive from
б	A. Yes.	6	EPA staff on any particular project we have a question on.
7	Q. And so if actual emissions do not increase	7	Q. Okay. I'd like to walk through a couple of
8	post-project as compared to the pre-project baseline	8	those guidance documents. If you could turn to what has been
9	emissions, PSD would not be triggered?	9	marked as Exhibit 2. I don't know if you brought your own
10	A. That's correct.	10	copy or not.
11	MR. BONEBRAKE: I'd like to go off the record	11	A. I do have them, but.
12	for a few minutes, just want to check my notes, talk to my	12	Q. You can use whichever –
13	colleague to see if I have any additional questions and go	13	A. Okay.
14	back on the record.	14	Q whichever is easiest for you.
15	VIDEOGRAPHER: We're off the record at 5:23.	15	MR. BONEBRAKE: Andrew, you're referring to
16	(A break was held.)	16	the deposition Volumes 1 and 2 that you brought to the
17	VIDEOGRAPHER: We're back on the record. It's	17	deposition today?
	5:33 p.m.	18	MR. HANSON: That's correct.
18		19	THE WITNESS: And Volume 2 is on tabs – yes,
19	MR. BONEBRAKE: Those are all the questions		
19 20	that I have for MDNR at this time. Subject to the additional	20	all right.
19 20 21	that I have for MDNR at this time. Subject to the additional questions that I might have pending to any questions that	21	BY MR. HANSON:
19 20 21 22	that I have for MDNR at this time. Subject to the additional questions that I might have pending to any questions that Mr. Hanson may present to the witness.	21 22	BY MR. HANSON: Q. Can you turn to tab 51?
19 20 21 22 23	that I have for MDNR at this time. Subject to the additional questions that I might have pending to any questions that Mr. Hanson may present to the witness. CROSS-EXAMINATION	21 22 23	BY MR. HANSON: Q. Can you turn to tab 51? A. Oops, that's in Exhibit 3.
19 20 21 22	that I have for MDNR at this time. Subject to the additional questions that I might have pending to any questions that Mr. Hanson may present to the witness.	21 22	BY MR. HANSON: Q. Can you turn to tab 51?

64 (Pages 250 to 253)

Case No. EF-2024-0021 Schedule CME-r8, Page 64 of 136

	Page 254	-	Page 256
1	A. Fifty-one?	1	Q. And does it also include the purpose of the
2	Q. Yes, tab 51.	2	project?
3	A. Yes.	3	A. Yes.
4	Q. Okay. Do you recognize tab 51 as one of the	4	Q. Okay. Thank you. Turning to tab 53 of
5	WEPCo applicability determination letters that EPA has	5	Exhibit 3, which I think you described as one of the WEPCo
6	issued?	6	another of the WEPCo letters?
7	A. Yes, that is correct.	7	A. That's correct.
8	Q. Okay. And on tab 51, do you recognize the	8	Q. Do you recognize this document as providing
9	Bates number at the bottom of the page as beginning with an	9	some guidance for Missouri DNR on performing emissions
10	MDNR. Do you see that?	10	projections into the actual-to-projected-actual test?
11	A. Yes, I do.	11	MR. BONEBRAKE: Objection, foundation.
12	Q. Does this indicate to you that this was found	12	THE WITNESS: Yes, this document is, again,
13	in MDNR's files?	13	a regarding to WEPCo, but it does answer or respond to a
14	A. Yes.	14	question on the issue of whether the actual-to-potential
15	Q. So this is one of the guidance documents that	15	method or the potential to emit concept should be used to
16	MDNR would look to as a source from EPA?	16	calculate emissions for PSD purposes.
17	A. That's correct.	17	BY MR. HANSON:
18	Q. Okay. Can you turn to tab 53 in Exhibit 3?	18	Q. Okay. Would you turn to tab 55 of
19	A. Yes.	19	Exhibit 3 or yeah, Exhibit 3?
20	Q. And again, do you recognize this as another of	20	A. Yeah.
21	the WEPCo determination letters?	21	Q. Okay. And do you recognize tab 55 as the
22	A. That is correct.	22	Detroit Edison letter that Mr. Bonebrake has referred to
23 24	Q. And do you see the MDNR Bates reference below	23 24	earlier today?
24	the bottom right-hand corner of the page? A. Yes.	24	A. Yes, that's correct.
23	A. 16.	23	Q. Okay. And do you see the MDNR Bates reference
	Page 255		Page 257
1	Page 255 Q. Does that signify to you that this was a	1	at the bottom of the page?
1 2	_	1 2	```
	Q. Does that signify to you that this was a		at the bottom of the page?
2	Q. Does that signify to you that this was a document found in MDNR's files?	2	at the bottom of the page? A. Yes.
2 3	Q. Does that signify to you that this was a document found in MDNR's files?A. Yes, it is.	2 3	at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this
2 3 4	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining A. Yes. 	2 3 4	at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files?
2 3 4 5	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining 	2 3 4 5 6 7	at the bottom of the page?A. Yes.Q. And that signifies to you, again, that this was found in MDNR's files?A. That's correct.Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability?
2 3 4 5 6 7 8	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining – A. Yes. Q. – PSD applicability? A. Yes. 	2 3 4 5 6 7 8	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of
2 3 4 5 6 7 8 9	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining A. Yes. Q PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you 	2 3 4 5 6 7 8 9	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions.
2 3 4 5 6 7 8 9 10	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining A. Yes. Q PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, 	2 3 4 5 6 7 8 9 10	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of
2 3 4 5 6 7 8 9 10 11	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining A. Yes. Q PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo - this WEPCo determination 	2 3 4 5 6 7 8 9 10 11	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the
2 3 4 5 6 7 8 9 10 11 12	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining A. Yes. Q PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo this WEPCo determination letter to articulate factors to be considered in determining 	2 3 4 5 6 7 8 9 10 11 12	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference.
2 3 4 5 6 7 8 9 10 11 12 13	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining A. Yes. Q PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? 	2 3 4 5 6 7 8 9 10 11 12 13	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference. A. Okay.
2 3 4 5 6 7 8 9 10 11 12 13 14	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining A. Yes. Q PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. 	2 3 4 5 6 7 8 9 10 11 12 13 14	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page
2 3 4 5 6 7 8 9 10 11 12 13 14 15	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining – A. Yes. Q. – PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand – I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo – this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those 	2 3 4 5 6 7 8 9 10 11 12 13 14 15	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining – A. Yes. Q. – PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand – I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo – this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those factors are? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining A. Yes. Q PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo - this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those factors are? 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10? A. Yes. Q. Okay. Do you looking at page 10 and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining – A. Yes. Q. – PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand – I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo – this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those factors are? MR. BONEBRAKE: Objection, foundation, document speaks for itself. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to - I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10? A. Yes. Q. Okay. Do you looking at page 10 and turning to page 11, do you recognize well, do you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining – A. Yes. Q. – PSD applicability? A. Yes. Q. Okay. Tuming back to Exhibit 51, do you understand –. Tm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo – this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those factors are? MR. BONEBRAKE: Objection, foundation, document speaks for itself. THE WITNESS: Okay. Go ahead. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to - I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10? A. Yes. Q. Okay. Do you looking at page 10 and turning to page 11, do you recognize well, do you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining – A. Yes. Q. – PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand – Im sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo – this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those factors are? MR. BONEBRAKE: Objection, foundation, document speaks for itself. THE WITNESS: Okay. Go ahead. BY MR. HANSON: 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10? A. Yes. Q. Okay. Do you looking at page 10 and turning to page 11, do you recognize well, do you recognize the information on page 10 and 11 to be similar to the information that was provided in one of the Independence
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining – A. Yes. Q. – PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand – I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo – this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those factors are? MR. BONEBRAKE: Objection, foundation, document speaks for itself. THE WITNESS: Okay. Go ahead. BY MR. HANSON: Q. You can still answer. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to - I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10? A. Yes. Q. Okay. Do you looking at page 10 and turning to page 11, do you recognize well, do you recognize the information on page 10 and 11 to be similar to the information that was provided in one of the Independence Power & Light letters that MDNR sent to Independence
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining – A. Yes. Q. – PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand – I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo – this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those factors are? MR. BONEBRAKE: Objection, foundation, document speaks for itself. THE WITNESS: Okay. Go ahead. BY MR. HANSON: Q. You can still answer. A. Okay. The factors I believe on – I 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10? A. Yes. Q. Okay. Do you looking at page 10 and turning to page 11, do you recognize well, do you recognize the information on page 10 and 11 to be similar to the information that was provided in one of the Independence Power & Light letters that MDNR sent to Independence Power & Light?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining – A. Yes. Q. – PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand – I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo – this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those factors are? MR. BONEBRAKE: Objection, foundation, document speaks for itself. THE WITNESS: Okay. Go ahead. BY MR. HANSON: Q. You can still answer. 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10? A. Yes. Q. Okay. Do you looking at page 10 and turning to page 11, do you recognize well, do you recognize the information on page 10 and 11 to be similar to the information that was provided in one of the Independence Power & Light letters that MDNR sent to Independence Power & Light?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. Does that signify to you that this was a document found in MDNR's files? A. Yes, it is. Q. And thus it was a guidance document that MDNR relied on or could rely on in determining A. Yes. Q PSD applicability? A. Yes. Q. Okay. Turning back to Exhibit 51, do you understand I'm sorry, not Exhibit 51, tab 51 of Exhibit 3, do you understand the WEPCo - this WEPCo determination letter to articulate factors to be considered in determining whether a project is routine maintenance? A. Yes, that is what that is. Q. And can you just briefly summarize what those factors are? MR. BONEBRAKE: Objection, foundation, document speaks for itself. THE WITNESS: Okay. Go ahead. BY MR. HANSON: Q. You can still answer. A. Okay. The factors I believe onI apologize, I'm looking at the right page, but this would be 	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 at the bottom of the page? A. Yes. Q. And that signifies to you, again, that this was found in MDNR's files? A. That's correct. Q. And is this letter a source of guidance for MDNR in analyzing PSD applicability? A. Yes. It is the regarding the subject of the project actual emissions. Q. Okay. Could you turn to on tab 55 of Exhibit 3, could you turn to I'm going to refer to the Ameren Bates reference. A. Okay. Q. Actually, no, I'll refer to the internal page numbering. Could you turn to of the attachment page 10? A. Yes. Q. Okay. Do you looking at page 10 and turning to page 11, do you recognize well, do you recognize the information on page 10 and 11 to be similar to the information that was provided in one of the Independence Power & Light letters that MDNR sent to Independence Power & Light?

65 (Pages 254 to 257)

Case No. EF-2024-0021 Schedule CME-r8, Page 65 of 136

	Page 258		Page 260
1	Q. Okay. And and again, Missouri DNR has had	1	A. Yes.
2	this guidance available to it at least since the date the	2	MR. BONEBRAKE: Object. Objection,
3	letter came out and was published on EPA's Web site?	3	foundation. Go ahead.
4	A. That's correct.	4	THE WITNESS: Okay.
5	Q. Do you know whether Missouri DNR has a	5	BY MR. HANSON:
6	statutory obligation to implement the Missouri SIP consistent	6	Q. And the first part is whether there's been a
7	with the Clean Air Act?	7	physical or operational change?
8	MR. BONEBRAKE: Objection, foundation.	8	A. That's correct.
9	THE WITNESS: State that again. I'm sorry.	9	Q. And the second part is whether that physical
10	BY MR. HANSON:	10	or operational change would result in a significant and add
11	Q. Sure. Do you know whether Missouri DNR has a	11	emissions increase?
12	statutory obligation to implement the Missouri SIP consistent	12	A. Yes.
13	with the federal Clean Air Act?	13	Q. Okay. I'd like to talk about the emissions
14	A. Yes.	14	part of the applicability test.
15	Q. And does?	15	A. Okay.
16	A. Yes. And and we do follow the Clean Air	16	Q. How would you characterize before NSR reform
17	Act in the state of Missouri following our SIP, so.	17	what the PSD federal PSD applicability test was
18	Q. How would you characterize EPA's role in	18	MR. BONEBRAKE: Objection, foundation.
19	implementing the SIP or the Clean Air Act in Missouri's	19	BY MR. HANSON:
20	boundaries?	20	Q. – for emissions?
21	MR. BONEBRAKE: Objection, asked and answered.	21	A. Okay. And this is where the terms, I
22	Go ahead.	22	apologize, get mixed in my head. We would view the potential
23	THE WITNESS: EPA provides the oversight of	23	emissions of the project for PSD applicability and the actual
24	the implementation of the Clean Air Act in the state of	24	emissions of the effected emission unit, if needed.
25	Missouri and I would describe them as our partner in	25	Q. Okay. And so are you referring to that as the
		1	
	Page 259		Page 261
1	Page 259 implementing the Clean Air Act in Missouri, because it is	1	Page 261
1 2		1 2	``````
	implementing the Clean Air Act in Missouri, because it is		actual-to-potential test?
2	implementing the Clean Air Act in Missouri, because it is their federal regulations that our regs and SIP is based on.	2	actual-to-potential test? A. Yes.
2 3	implementing the Clean Air Act in Missouri, because it is their federal regulations that our regs and SIP is based on. BY MR. HANSON:	2 3	actual-to-potential test? A. Yes. Q. Okay. Was there another test that applied to
2 3 4	implementing the Clean Air Act in Missouri, because it is their federal regulations that our regs and SIP is based on. BY MR. HANSON: Q. Okay. If EPA and Missouri Department of	2 3 4	actual-to-potential test? A. Yes. Q. Okay. Was there another test that applied to other sources before NSR reform, under the Missouri SIP?
2 3 4 5	implementing the Clean Air Act in Missouri, because it istheir federal regulations that our regs and SIP is based on.BY MR. HANSON:Q. Okay. If EPA and Missouri Department ofNatural Resources disagreed on the interpretation of the	2 3 4 5	 actual-to-potential test? A. Yes. Q. Okay. Was there another test that applied to other sources before NSR reform, under the Missouri SIP? A. Under the Missouri SIP? My confusion is
2 3 4 5 6	 implementing the Clean Air Act in Missouri, because it is their federal regulations that our regs and SIP is based on. BY MR. HANSON: Q. Okay. If EPA and Missouri Department of Natural Resources disagreed on the interpretation of the Missouri SIP, whose interpretation of the Missouri SIP would 	2 3 4 5 6	 actual-to-potential test? A. Yes. Q. Okay. Was there another test that applied to other sources before NSR reform, under the Missouri SIP? A. Under the Missouri SIP? My confusion is I'm sorry, the lateness of the day is getting to me. The
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66 (Pages 258 to 261)

Case No. EF-2024-0021 Schedule CME-r8, Page 66 of 136

	Page 262		Page 264
1	ahead.	1	A. That's correct.
2	THE WITNESS: Yes.	2	Q. Turning to the second page of that federal
3	BY MR. HANSON:	3	register notice in 70316, which is at the top left-hand
4	Q. Turning for a moment to – back to routine	4	comer.
5	maintenance.	5	A. Right.
б	A. Okay.	6	Q. Are you there? Okay. Do you see the header
7	Q. Is it your understanding that the routine	7	in the second column which says, what is being addressed in
8	maintenance test is to be construed narrowly or is it to be	8	this document?
9	construed broadly.	9	A. Yes.
10	MR. BONEBRAKE: Objection, foundation, legal	10	Q. Okay. Do you understand that it's EPA's
11	conclusion.	11	position that the intent of the construction permit
12	THE WITNESS: In my experience and in	12	exemptions rule is to exempt minor and De Minimus sources
13	conversations with EPA staff, routine maintenance and repair	13	from permitting requirements?
14	is fairly narrow in interpretation.	14	MR. BONEBRAKE: Objection, foundation.
15	BY R. HANSON:	15	THE WITNESS: Yes, that is what it states.
16	Q. Okay. Mr. Bonebrake asked you a series of	16	BY MR. HANSON:
17	questions about the construction permit exemptions.	17	Q. Okay. And do you further understand that it's
18	A. Yes.	18	EPA's positions that sources which would emit at or above
19	Q. And I want to make sure the record was clear	19	major source levels are not eligible for those exemptions?
20	in that regard. Do you understand the construction permit	20	MR. BONEBRAKE: Same objection.
21	exemptions to apply to exempt sources who are subject to	21	THE WITNESS: That is what it states, yes.
22	federal PSD from having to obtain federal PSD requirements?	22	BY MR. HANSON:
23	MR. BONEBRAKE: Objection, legal conclusion.	23	Q. Okay. And so you understand that to be EPA's
24	Go ahead.	24	position?
25	THE WITNESS: The way our exemptions are	25	A. That is EPA's position.
	Page 263		Page 265
1	written and the interpretation and intention of them is, they	1	Q. Okay. Mr. Bonebrake asked you about a series
2	are applied after it is determined a PSD permit is not	2	of no permit required letters.
3	applicable and then the exemption rules follow to determine	3	A. Yes.
4	if the source or installation needs to obtain a minor source	4	
5			Q. And some of the nomenclature that we've used
J	or De Minimus permit in the state of Missouri.	5	
6	or De Minimus permit in the state of Missouri. BY MR. HANSON:	5 6	today may have gotten a little mixed up. Sometimes he
	BY MR. HANSON:		
б	BY MR. HANSON: Q. Okay. So to make sure I understand, the	6	today may have gotten a little mixed up. Sometimes he referred to those as applicability determinations? A. Yes.
6 7	BY MR. HANSON: Q. Okay. So to make sure I understand, the construction permit exemptions do not apply where federal PSD	6 7	today may have gotten a little mixed up. Sometimes he referred to those as applicability determinations? A. Yes. Q. And as I ask you questions about them, I'm
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67 (Pages 262 to 265)

Case No. EF-2024-0021 Schedule CME-r8, Page 67 of 136

	Page 266		Page 268
1	Q. Okay. And is it correct that not all no	1	THE WITNESS: No. As I said, our process on
2	permit required letters are sent to EPA for review?	2	applicability determinations is we are trying to interpret
3	A. That's correct.	3	the rules for that specific installation and based on that
4	Q. Okay. And when do you send no permit required	4	specific activity. And one of the reasons we wouldn't
5	letters to EPA?	5	recommend that is interpretations change, and over the years,
6	A. We don't have a formal procedure of when we	6	we get a little better at responding to these letters and
7	send them. I believe I mentioned earlier if we call EPA and	7	and get a little more detail in these letters. So we would
8	ask for their guidance on a permit determination, we would	8	not – a lot of times internally we don't use them.
9	copy them on the final letter or send them a draft of a	9	BY MR. HANSON:
10	letter during the review process. We issue hundreds of no	10	Q. Okay. Do you know whether Ameren ever - let
11	permit required letters over a span of time and EPA doesn't	11	me back up.
12	want to read those either, so we would only issue them if -	12	You said you reviewed at some point in the
13	most likely if we would have asked for their opinion on	13	past the Amended Complaint in this case?
14	something.	14	A. Yes.
15	Q. Okay. And are no permit when you issue a	15	Q. Okay. Based on your recollection of having
16	no permit required to a source, are you intending in any way	16	reviewed the Amended Complaint in this case, do you know
17	to preclude EPA from following up later through an	17	whether Ameren ever sought a no permit required for the
18	enforcement action or through a permitting action?	18	projects identified in the Amended Complaint?
19	MR. BONEBRAKE: Objection, foundation, legal	19	A. Could you restate the question so I make sure
20	conclusion.	20	I answer it?
21	THE WITNESS: What we are doing with a no	21	Q. Sure. Do you know whether Ameren ever sought
22	permit required letter is responding to the source with our	22	a no permit required letter for any of the projects in the
23	interpretation of the rules to the best of our ability. That	23	Amended Complaint?
24	does not preclude EPA from enforcing their own rules and we	24	A. Based on my review, they did not.
25	are we try to be very careful when we respond to	25	Q. Okay. Turning back to the Missouri SIP.
	Page 267		
			Page 269
1	applicability determinations because of that. We want to	1	A. Yes.
1 2		1 2	
	applicability determinations because of that. We want to interpret the rules the same way as EPA. We may not always do that, but we want to send that letter to the best of our		A. Yes.Q. I wanted to ask you a couple more questions about the record-keeping requirements for a Missouri SIP. If
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68 (Pages 266 to 269)

Case No. EF-2024-0021 Schedule CME-r8, Page 68 of 136

	Page 270		Page 272
1	Missouri explained that it intended? It's the second I	1	MR. BONEBRAKE: Objection, legal conclusion.
2	think second to last sentence in that paragraph.	2	BY MR. HANSON:
3	A. Oh, yes, okay.	3	Q. Make sure for the record.
4	Q. And it reads, in that letter, Missouri	4	A. Yes.
5	explained that it intended to remove the clean unit and PCP	5	Q. Yes. Okay. Thank you. And so your
6	provisions from its rule and that it would not apply the	6	understanding of the Missouri SIP as it implements NSR reform
7	remanded portion of the federal rule until EPA responds to	7	is that a source is required to prepare a pre-project
8	the remand and takes final action on this portion of the	8	emissions projection to determine whether PSD would be
9	Missouri rule. Do you see that?	9	triggered?
10	A. That's correct, yes.	10	MR. BONEBRAKE: Objection, legal conclusion,
11	Q. And do you understand the remanded portion to	11	foundation.
12	relate to reasonable possibility	12	THE WITNESS: That that would be what the
13	MR. BONEBRAKE: Objection.	13	source would need to do to have on hand to determine that
14	MR. HANSON: – of record-keeping	14	they did not receive a PSD permit, yes.
15	requirements?	15	BY MR. HANSON:
16	MR. BONEBRAKE: Objection, foundation.	16	Q. Okay. And further, the source is required to
17	THE WITNESS: Yes.	17	maintain those records?
18	BY MR. HANSON:	18	A. That's correct.
10 19	Q. And do you see the last sentence, where it	19	A. That's correct.Q. Okay. I wanted to ask you or follow-up on a
19 20	says, in the interim, all sources which use the	20	couple of questions regarding some of the no permit required
20 21	actual-to-projected-actual applicability test authorized in	20	
21	the federal rule would be required to maintain the records	22	letters that Mr. Bonebrake showed you.
22	identified in 40 CFR 52.21 R6?	23	A. Okay.
23 24		23	Q. So I'll let you get oriented for a moment.
24 25	A. Yes, that's correct.	24	A. Okay.
20	Q. Okay. And you understand that provision to	25	Q. Okay. Turning to Exhibit 10. And
	Page 271		Page 273
1	cite the reasonable possibility in record-keeping	1	A. Okay.
2	requirements?	2	Q. I think Mr. Bonebrake pointed you to - well,
3	A. Yes, I do.	3	I think you recall Exhibit 10 is a no permit required letter
4	Q. So is it your understanding that at the time	4	issued to Associated Electric. Do you see that?
5	of EPA SIP approval that sources in Missouri that applied the	5	A. Yes.
б	actual-to-projected-actual applicability test were required	6	Q. Okay. And in making this no permit
7	to maintain the records identified in that rule?	7	determination or no permit required letter, is it fair to say
8	A. Yes.	8	that you essentially accepted the representations and relied
9	MR. BONEBRAKE: Objection, legal conclusion	9	upon the representations of the source who sought it?
10	and foundation.	10	A. Yes.
11	BY MR. HANSON:	11	
11	BY MR. HANSON: O. Okay. Well. this is a 30(b)(6) deposition.	11	Q. Okay. I note that in the second full
11 12	Q. Okay. Well, this is a 30(b)(6) deposition,	11 12	Q. Okay. I note that in the second full paragraph, you see the sentence that says, the new tubes will
11 12 13	Q. Okay. Well, this is a 30(b)(6) deposition, and you know that I'm asking for Missouri's position on the	11 12 13	Q. Okay. I note that in the second full paragraph, you see the sentence that says, the new tubes will not result in an increase in utilization of the boiler?
11 12 13 14	Q. Okay. Well, this is a 30(b)(6) deposition, and you know that I'm asking for Missouri's position on the issue?	11 12 13 14	Q. Okay. I note that in the second full paragraph, you see the sentence that says, the new tubes will not result in an increase in utilization of the boiler?A. Yes, that's correct.
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69 (Pages 270 to 273)

Case No. EF-2024-0021 Schedule CME-r8, Page 69 of 136

	Page 274	Page 276
1	MR. BONEBRAKE: Same objections.	1 maximum heat input or emissions in any criteria pollutant
2	THE WITNESS: Yes.	2 from the boiler and will not eliminate routine outages or
3	BY MR. HANSON:	³ alter the operation of boiler if any significant way. Do you
4	Q. And how would they factor into your analysis?	4 see that?
5	A. The increase of hours of operation depending	5 A. Yes.
6	on the situation could increase the potential emissions of	6 Q. Okay. Again, did you rely on the
7	the project.	7 representations of this source seeking a no permit required
8	Q. Could it also increase the projected actual	8 in making that conclusion?
9	emissions?	9 A. Yes, we did.
10	A. Yes.	10 Q. Okay. And if do you see the phrase "will
11	Q. Okay. Let's turn to Exhibit No. 12.	11 not eliminate routine outages?"
12	Actually, turn to Exhibit No. 11. I jumped ahead. Do you	12 A. Yes.
13	recall that Exhibit No. 11 is another no permit required	13 Q. Okay. Would your determination change if the
14	letter –	14 project was expected to eliminate routine outages?
15	A. Yes.	15 MR. BONEBRAKE: Objection, calls for
16	Q. – issued by Missouri DNR?	16 speculation and conjecture.
17	A. Yes.	17 THE WITNESS: That possibly would change, yes.
18	Q. Okay. And it was sought by the Associated	18 BY MR. HANSON:
19	Electric Cooperative, do you see that?	19 Q. Okay. Turning to we'll skip ahead to
20	A. That's correct.	20 Exhibit 16. Do you recognize Exhibit 16 as one of the
21	Q. Okay. And on page 2 of that letter on	21 Independence Power & Light letters that Mr. Bonebrake asked
22	Exhibit 11, do you see the sentence, the project will not	22 you about?
23	result in an increase in emissions, increased utilization of	23 A. Yes.
24	the boiler, and does not reconstitute reconstruction?	24 Q. Okay. And do you see the sentence in the
25	A. That's correct.	second paragraph that says, no modification to the design or
	Page 275	Page 277
1	Page 275 Q. And so I have the same question for you: If	Page 277 1 material will be implemented? Do you see that?
1 2	2	``
	Q. And so I have the same question for you: If	1 material will be implemented? Do you see that?
2	Q. And so I have the same question for you: If the project would result in an increase in utilization, would	 material will be implemented? Do you see that? A. Yes.
2 3	Q. And so I have the same question for you: If the project would result in an increase in utilization, would that change or effect your determination?	 material will be implemented? Do you see that? A. Yes. Q. And that's referring to some boiler tubes that
2 3 4	Q. And so I have the same question for you: If the project would result in an increase in utilization, would that change or effect your determination? MR. BONEBRAKE: Objection, speculation,	 material will be implemented? Do you see that? A. Yes. Q. And that's referring to some boiler tubes that Independence Power & Light was planning to replace?
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2 3 4 5 6 7 8 9 10 11	 Q. And so I have the same question for you: If the project would result in an increase in utilization, would that change or effect your determination? MR. BONEBRAKE: Objection, speculation, conjecture. MR. HANSON: That would factor into the analysis and possibly change. BY MR. HANSON: Q. Okay. And again, did you rely on the representations of the source who sought the no permit required in determining that there would be no increase in 	 material will be implemented? Do you see that? A. Yes. Q. And that's referring to some boiler tubes that Independence Power & Light was planning to replace? A. That's correct. MR. BONEBRAKE: I'm sorry, Andrew, where are you? MR. HANSON: I'm on Exhibit 16, I'm on the first page of the letter. If you want me to refer to it by Bates AM-00024472-MDNR. MR. BONEBRAKE: And what – what sentence were
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	 Q. And so I have the same question for you: If the project would result in an increase in utilization, would that change or effect your determination? MR. BONEBRAKE: Objection, speculation, conjecture. MR. HANSON: That would factor into the analysis and possibly change. BY MR. HANSON: Q. Okay. And again, did you rely on the representations of the source who sought the no permit required in determining that there would be no increase in the utilization? A. Yes, I did. Q. Okay. Did – well. Turning to Exhibit No. 12. Do you recognize Exhibit No. 12 as an applicability determination – well, a no permit required letter sought by Aquila Environmental Services? A. Yes. Q. And it relates to the Sibley generating 	1 material will be implemented? Do you see that? 2 A. Yes. 3 Q. And that's referring to some boiler tubes that 4 Independence Power & Light was planning to replace? 5 A. That's correct. 6 MR. BONEBRAKE: I'm sony, Andrew, where are 7 you? 8 MR. HANSON: I'm on Exhibit 16, I'm on the 9 first page of the letter. If you want me to refer to it by 10 Bates AM-00024472-MDNR. 11 MR. BONEBRAKE: And what – what sentence were 12 you referring to? 13 MR. HANSON: It's no modification to the 14 design or material will be implemented. 15 BY MR. HANSON: 16 Q. Do you see that? 17 A. Yes. 18 Q. Okay. And did you rely on the source's 19 representation to determine that no modification to the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 Q. And so I have the same question for you: If the project would result in an increase in utilization, would that change or effect your determination? MR. BONEBRAKE: Objection, speculation, conjecture. MR. HANSON: That would factor into the analysis and possibly change. BY MR. HANSON: Q. Okay. And again, did you rely on the representations of the source who sought the no permit required in determining that there would be no increase in the utilization? A. Yes, I did. Q. Okay. Did – well. Turning to Exhibit No. 12. Do you recognize Exhibit No. 12 as an applicability determination – well, a no permit required letter sought by Aquila Environmental Services? A. Yes. Q. And it relates to the Sibley generating station? A. That's correct. Q. And it's dated March 5th, 2008? A. Yes. 	1 material will be implemented? Do you see that? 2 A. Yes. 3 Q. And that's referring to some boiler tubes that 4 Independence Power & Light was planning to replace? 5 A. That's correct. 6 MR. BONEBRAKE: I'm sorry, Andrew, where are 7 you? 8 MR. HANSON: I'm on Exhibit 16, I'm on the 9 first page of the letter. If you want me to refer to it by 10 Bates AM-00024472-MDNR. 11 MR. BONEBRAKE: And what – what sentence were 12 you referring to? 13 MR. HANSON: It's no modification to the 14 design or material will be implemented. 15 BY MR HANSON: 16 Q. Do you see that? 17 A. Yes. 18 Q. Okay. And did you rely on the source's 19 representation to determine that no modification to the 20 design or material will be implemented? 21 A. Yes. 22 Q. Okay. If there was expected to be a change to 23 the design of the component or tubes being replaced, would

70 (Pages 274 to 277)

Case No. EF-2024-0021 Schedule CME-r8, Page 70 of 136

	Page 278		Page 280
1	MR. BONEBRAKE: Calls for speculation and	1	A. Sony.
2	conjecture.	2	Q. Do you recognize this as one of the no permit
3	THE WITNESS: As I mentioned, these no permit	3	required letters that Mr. Bonebrake showed you?
4	required letters are very case by case. So if anything	4	A. Yes.
5	changes, then the analysis would change, so yes, if the if	5	Q. Okay. And it's an April 17th, 2009 letter
6	there was a modification to the design, it could possibly	6	from MDNR to the Springfield City Utilities?
7	change the analysis.	7	A. That's correct.
8	BY MR. HANSON:	8	Q. Okay. And again, did you rely on the source's
9	Q. Okay. Thank you. Oh, I'm sorry, and staying	9	representations in this instance that there would be no
10	on Exhibit No. 16, do you see where it says in the same	10	emissions increase due to the project?
11	paragraph, IPL forecasts that usage of MC tube will decrease	11	A. Yes, we did.
12	in years beginning in 2009?	12	Q. Okay. I wanted to ask you, again, how many no
13	A. Yes.	13	permit required letters do you - or does Missouri DNR
14	Q. And then it says, thus, IPL is not projecting	14	process annually?
15	any increase in capability or operating hours due to the	15	A. I don't have the numbers specific. I would
16	project?	16	estimate - depending on the year, we issue probably 600 to
17	A. Yes.	17	1,200 in our good years of construction permit projects. I
18	Q. Okay. Why would that be relevant to your	18	would say probably 20 to 30 percent of those are
19	analysis of whether federal PSD would apply to this project?	19	applicability determinations.
20	MR. BONEBRAKE: Objection, foundation.	20	Q. Meaning determinations of whether federal PSD
21	THE WITNESS: That would be part of the	21	applies?
22	projected actuals. If they were increasing the capability or	22	A. Or whether any permit is required. A lot of
23	operating hours, it could affect the projected actuals.	23	our no permit required letters are from sources that are
24	BY MR. HANSON:	24	smaller sources.
25	Q. And thus trigger possible PSD requirements?	25	Q. Okay.
	Page 279		Page 281
1	A. Yes.	1	A. So.
2	Q. Okay. Thank you. Okay. I wanted to turn to	2	Q. So just doing the math, I think you said 600
3	Exhibit No. 17. Well, actually, we'll come back to that in	3	to 1,200 in a given year?
4	just a little bit.	4	A. Those are the total construction permit
5	Okay. If you could turn to Exhibit 18. I	5	projects. That includes everything, permit determinations,
6	just want to clarify something.	6	permits, all the construction permits. I'd say probably,
7	A. Okay.	7	again, this is approximate, because I didn't pull these
8	Q. Do you remember when we were talking about the	8	numbers, but probably one to two hundred permit
9	Detroit Edison letter that was contained in the binder that's	9	determinations, no permit required to all facilities, major
10	marked as Exhibit 3?	10	sources, minor sources, De Minimus. So not all of those
11	A. Yes.	11	would trigger a PSD question first. We have a lot of small
12	Q. Okay. And Mr. Bonebrake showed you as part of	12	facilities in Missouri.
13	Exhibit 18 a letter from Missouri DNR to Independence Power &	13	Q. Okay.
14	Light that begins on Bates No. AM-00433316-MDNR?	14	A. So.
15	A. Yes.	15	Q. And is that on top of the PSD permits that you
16	Q. Okay. And is this the and the letter is	16	actually issue as well?
17	dated April 5th, 2010. Do you see that?	17	A. Yes.
18	A. Yes, that's correct.	18	Q. Okay. How many staff do you have devoted to
19	Q. Okay. And is this the letter that essentially	19	responding to no permit required letters?
20	sends the factors identified in the Detroit Edison letter to	20	A. We have 27 staff members in the permit section
	Independence Power & Light?	21	currently. Three of those are permit modelers, three
21		22	managers. I think there's ten in the construction permit
	A. Yes.		- I '
21	A. Yes.Q. Okay. Thank you. Turning to Exhibit No. 20.	23	unit that includes the supervisor. There might just be nine.
21 22		23 24	unit that includes the supervisor. There might just be nine. I don't have my org chart in front of me. So those nine to
21 22 23	Q. Okay. Thank you. Turning to Exhibit No. 20.		unit that includes the supervisor. There might just be nine. I don't have my org chart in front of me. So those nine to ten staff members would respond to all construction permit

71 (Pages 278 to 281)

Case No. EF-2024-0021 Schedule CME-r8, Page 71 of 136

	Page 282		Page 284
1	items, including permit determination requests.	1	So when we spend a lot of time on permit
2	Q. Okay. So are you saying that there are ten	2	determinations, that is time that could be spent on permits
3	people, roughly, to respond to 600 to 1,200 requests for no	3	and applicants are wanting those permits. And the vast
4	permit required?	4	majority of time, they don't really care too much about the
5	MR. BONEBRAKE: Objection, foundation,	5	applicability determinations, but they really want their
6	mischaracterization of testimony.	6	permits so they can start that project.
7	MR. HANSON: I'm just trying to understand.	7	BY MR. HANSON:
8	THE WITNESS: Yeah, those ten individuals will	8	Q. Well, I think turning to Exhibit No. 20, on
9	respond to all the permit projects in the in the	9	Bates No. AM-00025889-MDNR, do you see that, on Exhibit 20?
10	construction permit projects in that unit. That's 600 to	10	A. Yes.
11	1,200 projects. And right now the last three years, we're	11	Q. And do you recognize this as the construction
12	probably averaging 800 projects a year. That includes a	12	permit fees worksheet?
13	portion that is no permit required. Every permit writer is	13	A. Yes.
14	assigned applicability determinations in addition to their	14	Q. And it appears from this worksheet that a
15	normal construction permits, whether they're De Minimus,	15	total of seven hours was spent on the this no permit
16	minor, or PSD permit projects.	16	required letter?
17	BY MR. HANSON:	17	A. That's correct.
18	Q. Okay. So to make sure I understand this	18	Q. Okay. Does the workload that you just
19	right, there are there are roughly ten people to handle	19	described limit MDNR's ability to spend a lot of time on no
20	the 800 or so letters that come in?	20	permit required letters?
21	A. The projects, yes.	21	A. Yes, it can.
22	Q. For projects?	22	Q. Okay. And does it?
23	A. Including permits.	23	A. Yes.
24 25	Q. Including permits?	24	Q. Okay. Turning to and staying with that for
25	A. Yes, that does include permits.	25	a moment, and as a result, is that one of the reasons why you
	Page 283		Page 285
1	Q. So there's 800 letters that come in and then	1	,
1 2	Q. So there's 800 letters that come in and then	1 2	need to rely on the source's representations in the letters
	2		Ň
2	Q. So there's 800 letters that come in and then there's permits that need to be issued on top of that?	2	need to rely on the source's representations in the letters that they send to you?
2 3	Q. So there's 800 letters that come in and then there's permits that need to be issued on top of that?A. The 800 includes the permits. I'm sorry, I'm	2 3	need to rely on the source's representations in the letters that they send to you? A. Yes.
2 3 4	Q. So there's 800 letters that come in and then there's permits that need to be issued on top of that?A. The 800 includes the permits. I'm sorry, I'm not explaining that very well. We consider a project because	2 3 4	need to rely on the source's representations in the letters that they send to you? A. Yes. Q. Okay.
2 3 4 5	 Q. So there's 800 letters that come in and then there's permits that need to be issued on top of that? A. The 800 includes the permits. I'm sorty, I'm not explaining that very well. We consider a project because we talked about these permit tracking sheets, every project 	2 3 4 5	need to rely on the source's representations in the letters that they send to you? A. Yes. Q. Okay. A. We just don't physically have the time to do
2 3 4 5 6	Q. So there's 800 letters that come in and then there's permits that need to be issued on top of that?A. The 800 includes the permits. I'm sorry, I'm not explaining that very well. We consider a project because we talked about these permit tracking sheets, every project number that comes in the door is assigned to a permit writer.	2 3 4 5 6	need to rely on the source's representations in the letters that they send to you? A. Yes. Q. Okay. A. We just don't physically have the time to do the research on those. We do a lot of research on the
2 3 4 5 6 7	 Q. So there's 800 letters that come in and then there's permits that need to be issued on top of that? A. The 800 includes the permits. I'm sorry, I'm not explaining that very well. We consider a project because we talked about these permit tracking sheets, every project number that comes in the door is assigned to a permit writer. And in the construction permit unit, all projects – and 	2 3 4 5 6 7	need to rely on the source's representations in the letters that they send to you? A. Yes. Q. Okay. A. We just don't physically have the time to do the research on those. We do a lot of research on the permits though.
2 3 4 5 6 7 8	 Q. So there's 800 letters that come in and then there's permits that need to be issued on top of that? A. The 800 includes the permits. I'm sorry, I'm not explaining that very well. We consider a project because we talked about these permit tracking sheets, every project number that comes in the door is assigned to a permit writer. And in the construction permit unit, all projects and there are different types of projects. There are the 	2 3 4 5 6 7 8	 need to rely on the source's representations in the letters that they send to you? A. Yes. Q. Okay. A. We just don't physically have the time to do the research on those. We do a lot of research on the permits though. Q. Okay. Turning to I'm going to skip ahead
2 3 4 5 6 7 8 9	Q. So there's 800 letters that come in and then there's permits that need to be issued on top of that? A. The 800 includes the permits. I'm sorry, I'm not explaining that very well. We consider a project because we talked about these permit tracking sheets, every project number that comes in the door is assigned to a permit writer. And in the construction permit unit, all projects – and there are different types of projects. There are the applicability determinations, the no permit requireds, there	2 3 4 5 6 7 8 9	 need to rely on the source's representations in the letters that they send to you? A. Yes. Q. Okay. A. We just don't physically have the time to do the research on those. We do a lot of research on the permits though. Q. Okay. Turning to – I'm going to skip ahead to Exhibit No. 24.
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72 (Pages 282 to 285)

Case No. EF-2024-0021 Schedule CME-r8, Page 72 of 136

	Page 286		Page 288
1	A. Yes.	1	BY MR. HANSON:
2	Q. Okay. Do you see in the fourth full paragraph	2	Q. Okay. Thank you. Id like to turn now to
3	where it begins, according to guidance published by US EPA?	3	Exhibit No. 22, which Mr. Bonebrake showed you.
4	A. Yes.	4	A. Yes.
5	Q. And do you see the sentence – the second full	5	Q. In Exhibit No. 22, you recognize that as a De
б	sentence that begins, EPA does not provide a regulatory	6	Minimus permit that was issued to Dogwood Energy?
7	quote-unquote bright line with which to make this	7	A. Yes.
8	determination, however EPA does state that for activities to	8	Q. Okay. And Mr. Bonebrake had a number of
9	be substantially related, there should be an apparent	9	questions for you concerning AM dash I'm going to refer to
10	technical or economic interconnection between the activities	10	the Bates number, the page that begins with AM-00446871-MDNR.
11	and it goes on?	11	Do you see that?
12	A. Yes, that's correct.	12	A. Yes.
13	Q. Okay. And in the preceding sentence, it's	13	Q. Okay. And do you recall Mr. Bonebrake's
14	referring to an EPA Federal Register Notice. Do you see	14	questions going to or relating to the demand growth
15	that?	15	exclusion?
16	A. Yes.	16	A. That's correct.
17	Q. Okay. Do you know whether or not that Federal	17	Q. And he generally referred to that as the
18	Register Notice refers to a proposed rule?	18	capable of accommodating exclusion?
19	A. I would have to see the Federal Register	19	MR. BONEBRAKE: Objection, foundation, asked
20	Notice to answer that. But my guess is it is the proposed	20	and answered.
21	rule on aggregation that EPA attempted to finalize at one	21	THE WIINESS: Yes.
22	time.	22	BY MR. HANSON:
23	Q. Okay. And do you understand that that	23	Q. Okay. For background here, you understand
24	proposed rule has been withdrawn?	24	that this permit relates to some turbine projects that
25	MR. BONEBRAKE: Objection, legal conclusion,	25	Dogwood was performing at combustion turbines?
	Page 287		Page 289
1	foundation.	1	A. That's correct.
2	THE WITNESS: Yes, that rule is not finalized.	2	Q. And one of the issues in the De Minimus permit
3	BY MR. HANSON:	3	
4			is whether or not the demand growth exclusion could apply to
	Q. Okay. And the last full paragraph, it refers	4	exclude certain emissions from the actual-to-projected-actual
5	to and I'll just summarize for the sake of speed here,	4 5	exclude certain emissions from the actual-to-projected-actual calculation; correct?
5 6	to and I'll just summarize for the sake of speed here, whether there's been a technical or economic dependence of	4 5 6	exclude certain emissions from the actual-to-projected-actual calculation; correct? A. Yes, that's correct.
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73 (Pages 286 to 289)

Case No. EF-2024-0021 Schedule CME-r8, Page 73 of 136

	Page 290		Page 292
1	growth equation. Is that what you're asking?	1	Q. And did Mr. Hanson reflesh refresh your
2	BY MR. HANSON:	2	recollection about what was in the binder?
3	Q. Yes.	3	A. We he went through the he prepared the
4	A. Okay.	4	binders for me and went I honestly hadn't opened the
5	Q. So if the emissions are related to the	5	binders before I met with him. So we went through tab by tab
6	project, those emissions can't be excluded?	6	just detailing what was in there and explaining to me that
7	MR. BONEBRAKE: Objection, legal conclusion,	7	what he prepared was the documents that were in the subpoena
8	asked and answered.	8	and that I should be expected to answer questions on those
9	THE WITNESS: Yes, that is that is the	9	documents.
10	intention of the demand growth is that what the facility	10	Q. Okay. But during the course of the deposition
11	could have done prior to the project is what can be excluded	11	today, you looked at these documents as well with Mr. Hanson?
12	under the demand growth. Nothing with the new project	12	MR. HANSON: Objection, that calls for
13	emissions or otherwise can be factored into that equation.	13	privileged information. I'm instructing you not to answer.
14	BY MR. HANSON:	14	MR. BONEBRAKE: Mr. Hanson, if if you
15	Q. Okay. But my specific question relates to the	15	worked with the witness in preparing questions with her today
16	relationship between the emissions and the project.	16	based upon exhibits that you brought to the deposition and
17	A. Yes.	17	refreshed her recollection, that's not privileged because
18	Q. If the project would result in emissions,	18	you're affecting and influencing her testimony today.
19	those emissions can't be excluded; correct?	19	MR. HANSON: I don't understand why that isn't
20	MR. BONEBRAKE: Objection, asked and answered.	20	privileged. I'm not sure I follow.
21	I think that's the third time you've asked that question of	21	MR. BONEBRAKE: Because you're putting at
22	the witness.	22	issue by refreshing the witness's recollection during the
23	THE WITNESS: Yes.	23	course of a deposition.
24	MR. BONEBRAKE: And characterization.	24	MR. HANSON: But forgive me, can we go off the
25	MR. HANSON: Thank you.	25	record for a second?
		1	
	Page 291		. Page 293
1	Page 291 THE WITNESS: Yes.	1	Page 293 MR. BONEBRAKE: No, let's stay on the record.
1 2		1 2	`
	THE WITNESS: Yes.		MR. BONEBRAKE: No, let's stay on the record.
2	THE WITNESS: Yes. MR. HANSON: Okay. Just a second. That's all	2	MR. BONEBRAKE: No, let's stay on the record. MR. HANSON: No. MR. BONEBRAKE: Mr. Hanson, is the witness your – is the witness your client?
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74 (Pages 290 to 293)

Case No. EF-2024-0021 Schedule CME-r8, Page 74 of 136

		1	
	Page 294		Page 296
1	trying to get at, whether you're refreshing her recollection	1	MR. BONEBRAKE: I don't know what the
2	and influencing her testimony during the course of the	2	discussion was, Andrew. As I mentioned, I will talk to Matt
3	deposition today. I think that's an area of proper inquiry	3	about it. We will I will make a decision and so I won't
4	for me.	4	press it further at this point in time with the understanding
5	MR. McLANE: May I clarify that by during the	5	that there's been some discussion that's probative on this
6	course of the deposition, you mean on the record today?	6	issue. But I just reserve my right to reopen, if necessary,
7	MR. BONEBRAKE: I don't mean on the record. I	7	if it appears that we would have a right to ask these
8	mean, it seems to me as if there's been a conversation, and	8	questions. That's all I'm saying. I'm not waiving that
9	just my speculation, between the witness and Mr. Hanson	9	right by not pursuing this line of questioning right now.
10	during the course of the deposition, maybe during breaks	10	MR. HANSON: Okay.
11	about questions he was going to ask her and perhaps answers	11	BY MR. BONEBRAKE:
12	that should be provided. And if that's the discussion that	12	Q. Mr. Hanson was asking you some questions about
13	occurred, I'm entitled, I believe, to ask some questions	13	the Dogwood determination.
14	related to that.	14	A. Yes.
15	MR. HANSON: Yeah, I think except the problem	15	Q. And we had talked about that as well?
16	is Mr. Mock and I, who is also counsel for Ameren Missouri,	16	A. Yes.
17	have conferred and we've agreed that discussions during the	17	Q. And that's Exhibit No.22?
18	breaks during depositions are not improper because it was	18	A. Yes.
19	raised at one of our previous at a previous deposition.	19	Q. And I think he asked you the same question
20	MR. BONEBRAKE: With your witnesses, with your	20	three times and I thought I heard your answer but I just
21	own clients.	21	wanted to make sure I got it right. You were saying, were
22	MR. HANSON: Well, as I said, we have a joint	22	you not, that if the source could have accommodated the level
23	prosecution privilege that applies here with regard to this	23	of emissions prior to the project, then they're unrelated to
24	case.	24	the project and they can be excluded under the
25	MR. BONEBRAKE: Is this witness your client?	25	actual-to-projected test; is that correct?
-	Page 295		Page 297
1	MR. HANSON: This witness is not our client,	1	A. Okay. This demand growth gives me a headache.
2	MR. HANSON: This witness is not our client, but again, we have a common interest and that common interest	2	A. Okay. This demand growth gives me a headache. I apologize. So could you rephrase that so I make sure I'm
2 3	MR. HANSON: This witness is not our client, but again, we have a common interest and that common interest applies to protect privileged communications between us and	2 3	A. Okay. This demand growth gives me a headache. I apologize. So could you rephrase that so I make sure I'm answering it the same?
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2 3 4 5	MR. HANSON: This witness is not our client, but again, we have a common interest and that common interest applies to protect privileged communications between us and the state of Missouri. I understand your position and I think you	2 3 4 5	 A. Okay. This demand growth gives me a headache. I apologize. So could you rephrase that so I make sure I'm answering it the same? Q. Sure. A. Okay.
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75 (Pages 294 to 297)

Case No. EF-2024-0021 Schedule CME-r8, Page 75 of 136

	Page 298		Page 300
1	Q. So up to the level of emissions that could	1	the the WEPCo applicability determinations.
2	have been achieved pre-project -	2	A. Yes.
3	A. Yes.	3	Q. I think there were two of them. They were
4	Q. – can be excluded from the projection?	4	tabs 51 and 53, I believe.
5	A. Yes.	5	A. Okay.
6	Q. Thank you.	6	Q. Let's talk about tab 51 first. And this is
7	A. Okay.	7	September 9th, 1988, memo. And this is tab 51 of Exhibit 3.
8	Q. Mr. Hanson asked you a number of questions	8	A. Yes.
9	about no permit required letters.	9	Q. Is this an applicability determination for a
10	A. Yes.	10	specific source?
11	Q. And we talked about those at at some length	11	A. Yes.
12	as – as well.	12	Q. For a specific project?
13	A. Uh-huh.	13	A. Yes.
14	Q. MDNR recognizes, does it not, that it has a	14	Q. And does EPA rely upon this as guidance
15	legal duty to issue no permit required letters that are	15	generally for other sources?
16	accurate and correct?	16	A. Yes.
17	A. Yes.	17	MR. HANSON: Objection, lack of foundation.
18	Q. And it makes its best effort to do so?	18	BY MR. BONEBRAKE:
19	A. We do.	19	Q. Fifty-three. And is this a US EPA letter to
20	Q. And MDNR recognizes, does it not, that the	20	Mr. John Boston at WEPCo?
21	source that requests the no permit required letter will rely	21	A. Yes.
22	upon that determination by the agency?	22	Q. Again, it's tab 53 of Exhibit 3. And is this
23	A. Yes, we do. That's why we make our best	23	a applicability determination issued by US EPA to one
24	determination.	24	specific source WEPCo?
25	Q. And does MDNR recognize that its applicability	25	A. Yes.
	Page 299		. Page 301
1	determinations, no permit required determinations, are	1	Q. For a specific project at WEPCo?
2	available to the public via foyer requests?	2	A. Yes.
3	A. Yes.	3	Q. And does EPA use this AD as guidance with
4	Q. And does MDNR recognize that sources in the	4	respect to other projects at other sources?
5	state of Missouri have access through consultants and other	5	A. Yes.
6	sources to applicability determinations	6	MR. HANSON: Objection, lack of foundation.
7	A. Yes.	7	BY MR. BONEBRAKE:
8	Q. – issued by MDNR?	8	Q. Now, Mr. Hanson was mentioning that the
9	A. Yes.	9	documents at tabs 51 and 53 in Exhibit 3 have MDNR Bates
10	Q. And isn't at any given time a no permit	10	stamps on them.
11	required determination issued by MDNR an indication for all	11	A. Yes, that's correct.
12	sources in the state of MDNR's view of the regulatory	12	Q. Do you remember that? Do you know when MDNR
13	requirements?	13	obtained copies of the documents at tabs 51 and 53?
14	A. Of that particular project, yes.	14	A. The initial, no, I don't. And it's my
15	Q. Of the particular regulations at issue in that	15	understanding that this MDNR tab is that these were produced
16	project?	16	under sunshine requests.
17	A. Yes.	17	Q. By MDNR to Ameren Missouri, that's correct.
18	Q. Because MDNR wants to get the interpretation	18	A. Okay. As I mentioned earlier, there are we
19 20	right; correct?	19	have a network drive that all permit writers use to store any
20	A. That's correct.	20	number of documents for their reference. And these documents
21	Q. And so so sources should be able to rely	21	originally are found in EPA's NSR database.
22	upon the fact that MDNR wants to get the interpretation	22	Q. Uh-huh.
23	right; correct?	23	A. However, those documents can be saved as a
24 25	A. Yes.	24	.pdf file and are frequently saved by different staff in their network folders to reference readily rather than go to
	Q. Mr. Hanson was – was asking you as well about	25	ineir network tolders to reference readily rather than go to
20	2. In The bolt was was asking you as not about		and hetwork lokers to reference reachly failer than 2010

76 (Pages 298 to 301)

Case No. EF-2024-0021 Schedule CME-r8, Page 76 of 136

	Page 302		Page 304
1	EPA's database, which at one time several years ago had some	1	A. Right.
2	issues with connectivity. So if - if a staff member found	2	Q. Separately we have the reform rule.
3	the documents useful, he or she might, and in this case did,	3	A. Yes.
4	save it to the network drive.	4	Q. And separate in time.
5	So this was obtained through one of the	5	A. Yes.
6	sunshine or subpoena requests and I don't know where the	6	Q. So when we get to the reform rule, which was
7	location was. My guess is this document is in multiple	7	adopted federally in late 2002 -
8	places on our network drive because, especially in recent	8	A. Right.
9	years, there have been some questions in applicability	9	Q and then adopted as a matter of state law
10	determinations increase on routine maintenance. So these	10	by MDNR in late 2004 -
11	certain documents would be reviewed over and over again by	11	A. Right.
12	our staff, so we would have those.	12	Q that was the first occasion where MDNR had
13	Q. And I was asking some related questions	13	adopted as a matter of state law an
14	earlier, but try again in light of the questions from	14	actual-to-projected-actual test. Is that is that true?
15	Mr. Hanson.	15	A. Yes, that's correct.
16	A. Okay.	16	Q. So before that time, there was not an
17	Q. Has setting aside the 2010 letter we talked	17	actual-to-projected-actual test in its state rules?
18	about earlier, that set forth the factors from the - the	18	A. Right.
19	Detroit Edison letter that Mr. Hanson asked you about.	19	Q. Now we spent considerable time this morning
20	A. Okay.	20	talking about the emission test that was applied by MDNR to
21	Q. Has MDNR in any prior applicability	21	determine construction permit applicability prior to the
22	determination utilized the WEPCo five factors to determine	22	reform rule adoption in Missouri. Do you recall that line of
23	whether or not a project was routine or not and thus excluded	23	questioning?
24	from PSD program?	24	A. Yes.
25	A. In that specific detail, my recollection is	25	Q. And we had worked through the definition of
	Page 303		. Page 305
1	no. This has come up recently in permit determinations. And	1	modification and the definition which referred to us to
2	so we would not have used this in this detail to my	2	changes in potential emissions?
3	recollection on determinations. Have we used, read it and	3	A. Yes.
4	reviewed it and utilized the intent of it? Most likely. But	4	Q. And we had looked at the definition of
5	the specificity of the five factors in that Independence	5	potential emissions.
6	Power & Light letter, for example, that is more recent	6	A. Right.
7	occurrence.	7	Q. Do you recall that?
8	Q. Occurrence as of 2010?	8	A. Yes.
9	A. Yes.	9	Q. And Mr. Hanson was asking you a question along
10	Q. Now, Mr. – Mr. Hanson was – was asking you	10	the lines of whether or not MDNR had utilized an
11	about the WEPCo actual-to-projected-actual emission test.	11	actual-to-potential test. Do you recall that?
12	A. Yes.	12	A. Yes.
13	Q. Do you recall that?	13	Q. Now when we were when we were talking and
14 15	A. Yes.	14	looking at the PSD manual, the permitting manual
15 16	Q. But MDNR never adopted the	15	A. Which.
16 17	WEPCo actual-to-projected-actual test, did it?	16	MR. BONEBRAKE: Which exhibit was that, David?
17 10	A. That's correct.	17	MR. LORING: Five.
18	Q. So MDNR never had occasion to apply the	18	BY MR. BONEBRAKE:
19	WEPCo actual-to-projected-actual test, did it?	19	Q. This is probably the best way to do this.
	A. In that definition, no. It is now as part of	20	Let's go to Exhibit 5. Is there anything in Exhibit 5 that
20	the reasonable possibility, the projected actual-to-actual.	21	indicates that MDNR will apply an actual emission baseline to
21		22	potential post-project emission test for purposes of
21 22	Q. And let's let's separate out.		
21 22 23	A. Okay.	23	determining permit construction permit requirement
21 22			

77 (Pages 302 to 305)

Case No. EF-2024-0021 Schedule CME-r8, Page 77 of 136

	Page 306		Page 308
1	entirely to answer that with certainty. And this was a draft	1	you were referring to an increase in potential emissions of
2	guidance document because I we didn't overly rely on this	2	the unit as a result of the project. Did I understand that
3	so I'm not exactly sure. It may or may not reference that,	3	correctly?
4	so I'm not sure what your question is.	4	A. If if that that project, so it's so
5	Q. Well, are you – are you aware of the – a	5	much easier to talk about with an application example. So
б	test that would compare actual pre-project emissions against	6	you have an application that someone is adding a piece of
7	potential emissions of an emission unit?	7	equipment, those emissions of that piece of equipment is the
8	A. Yes.	8	project emissions at that time. If that is below the PSD
9	Q. Okay. And for any source that hasn't been	9	threshold, we would go determine whether it was a minor
10	operating at one hundred percent capacity in the baseline,	10	permit or not and move forward with that. So Im - Im not
11	that would always yield an emission increase, wouldn't it?	11	sure.
12	A. I'm sorry, would you say that again?	12	Q. Okay. So I understand that that's that's
13	Q. For any source –	13	addressing a scenario when you have a new emission unit -
14	A. Yes.	14	A. Right.
15	Q that had not been operating at one hundred	15	Q and you're assessing the impact of that in
16	percent capacity in the baseline period	16	emission unit.
17	A. Right.	17	A. Right.
18	Q. – application of an actual-to-potential test	18	Q. And our scenario in this case and I would
19	always yields an emission increase unless the source takes a	19	think many cases presented to MDNR is not a new emission
20	synthetic minor permit; isn't that correct?	20	unit.
21	MR. HANSON: Objection, lack of foundation,	21	A. Right.
22	calls for hypothetical, calls for speculation.	22	Q. Instead we're talking about changes to an
23	THE WITNESS: As I'm understanding the	23	existing emission unit within an existing emission unit.
24	question, I would say yes.	24	A. Right, right.
25		25	Q. And when we looked at – and I'm looking again
	Page 307		Page 309
1	BY MR. BONEBRAKE:	1	at page 15 of 53 of the manual, this morning we had a
2	Q. All right. And is it your testimony now that	2	discussion about that and I'll refer you again to paragraph 3
3	prior to the MDNR's adoption of the reform rule in late 2004,	3	in section B on that page.
4	that it applied an actual-to-potential emission test to	4	A. Okay.
5	determine construction permit applicability?	5	Q. And the third sentence, potential of
6	A. I'm hesitating only because as a permit writer	6	construction parens PC, end parens, should only include new
7	and a permit reviewer, we didn't use those terms	7	equipment or additional capacity.
8	actual-to-potential, so we would review the project and the	8	A. Yes.
9	project would come in and we would look at the potential	9	Q. So the new equipment is the new emission unit
10	emissions of the project and that was the most important	10	scenario you just described; right?
11	piece when we were determining it. And if the potential	11	A. Right.
12	emissions of the project itself did not trigger PSD, we	12	Q. For existing units, where instead the question
13	didn't do anything more. It was just the project emissions.	13	is a change within the existing unit, not a new emission
14	That was the most important piece.	14	unit?
15	Q. Okay.	15	A. Right.
16	A. So that's why I'm tripping up on these terms	16	Q. You have an increase in project caused by the
17	and I apologize.	17	project only if you have an increase in capacity to emit of
18	Q. And I want us to use common terms because this	18	the emission unit; correct?
19	is important	19	A. Yes.
20	A. Right.	20	Q. So for units where the issue is a change to an
21	Q and I want to get this right.	21	existing emission unit, not the addition of a new unit
22	A. Right.	22	A. Yes.
23	Q. Now when you talk about project emissions	23	Q the project would cause an emission
24	A. Yes.	24	increase within the meaning of the modification rules of
25	Q. – my understanding from this morning was that	25	MDNR, only if it increased the potential to emit of the
	· –		_

78 (Pages 306 to 309)

Case No. EF-2024-0021 Schedule CME-r8, Page 78 of 136

	Page 310		Page 312
1	emission unit; is that correct?	1	It is 7:01 p.m., September the 18th and we're off the record.
2	A. Yes.	2	COURT REPORTER: Signature?
3	Q. And that standard that I just mentioned to you	3	MR. BONEBRAKE: Reserving review?
4	was applied by MDNR for minor sources and major sources and	4	MR. DUGGAN: Do you want to read this massive
5	at least up through adoption of the reform rule in 2004;	5	transcript before you sign it? Given the complexity, I would
б	correct?	6	say yes. I would say yes.
7	A. That's correct.	7	THE WITNESS: Okay.
8	MR. BONEBRAKE: Let's go off the record.	8	(End of Proceedings.)
9	VIDEOGRAPHER: We're off the record at 6:48	9	
10	pm.	10	
11	(A break was held.)	11	
12	VIDEOGRAPHER: We're back on the record. It's	12	
13	seven o'clock p.m.	13	
14	BY MR. BONEBRAKE:	14	
15	Q. Just a couple of final questions.	15	
16	A. Okay.	16	
17	Q. With respect to Exhibit 20, Mr. Hanson and I	17	
18	were both asking you some questions about this this	18	
19	exhibit. And the fourth page of the exhibit that's	19	
20	Bates-stamped AM00025889	20	
21	A. Yes.	21	
22	Q is the construction permit fees worksheet.	22	
23	A. Yes.	23	
24	Q. And on this worksheet for this project, there	24	
25	are cumulative fees that are listed in the right-hand column;	25	
	Page 311		Page 313
1		1	·
1 2	is that right?	1 2	Page 313 CERTIFICATE OF DEPONENT
	is that right? A. Yes; correct.		CERTIFICATE OF DEPONENT
2	is that right? A. Yes; correct. Q. Would those cumulative fees, in fact, be	2	CERTIFICATE OF DEPONENT I hereby certify that I have read and examined the
2 3	is that right? A. Yes; correct.	2 3	CERTIFICATE OF DEPONENT I hereby certify that I have read and examined the foregoing transcript, and the same is a true and
2 3 4	is that right? A. Yes; correct. Q. Would those cumulative fees, in fact, be billed to the source that requested the no permit required letter?	2 3 4	CERTIFICATE OF DEPONENT I hereby certify that I have read and examined the foregoing transcript, and the same is a true and accurate record of the testimony given by me.
2 3 4 5	is that right? A. Yes; correct. Q. Would those cumulative fees, in fact, be billed to the source that requested the no permit required	2 3 4 5	CERTIFICATE OF DEPONENT I hereby certify that I have read and examined the foregoing transcript, and the same is a true and accurate record of the testimony given by me. Any additions or corrections that I feel are
2 3 4 5 6	is that right?A. Yes; correct.Q. Would those cumulative fees, in fact, bebilled to the source that requested the no permit requiredletter?A. Only if a permit was required can we charge	2 3 4 5 6	CERTIFICATE OF DEPONENT I hereby certify that I have read and examined the foregoing transcript, and the same is a true and accurate record of the testimony given by me. Any additions or corrections that I feel are necessary, I will attach on a separate sheet of
2 3 4 5 6 7	 is that right? A. Yes; correct. Q. Would those cumulative fees, in fact, be billed to the source that requested the no permit required letter? A. Only if a permit was required can we charge fees. 	2 3 4 5 6 7	CERTIFICATE OF DEPONENT I hereby certify that I have read and examined the foregoing transcript, and the same is a true and accurate record of the testimony given by me. Any additions or corrections that I feel are
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79 (Pages 310 to 313)

Case No. EF-2024-0021 Schedule CME-r8, Page 79 of 136

	Page 314
1	CERTIFICATE OF REPORTER
2	STATE OF MISSOURI)
3) ss:
4	COUNTY OF GASCONADE)
5	
б	I, JENNIFER L. LEIBACH, Registered
7	Professional Reporter, Certified Realtime Reporter, and
8	Certified Court Reporter, CCR #1108, the officer before whom
9 10	the foregoing deposition was taken, do hereby certify that
10 11	the witness whose testimony appears in the foregoing deposition was duly swom by me; that the testimony of said
12	witness was taken by me to the best of my ability and
13	thereafter reduced to typewriting under my direction; that I
14	am neither coursel for, related to, nor employed by any of
15	the parties to the action in which this deposition was taken,
16	and further that I am not a relative or employee of any
17	attorney or counsel employed by the parties thereto, nor
18	financially or otherwise interested in the outcome of the
19	action.
20	
21	
22	Jenni Leibach, CCR, RPR, CRR
23	
24	
25	

				Page 315
Α	achieved 298:2	286:8,10 287:7	actualtoprojec	addressing
abbreviated	acknowledges	activity 72:3	63:6 64:3	160:25 164:17
106:17	148:9	143:11 144:25	192:18 194:1	249:8,9 308:13
ability 174:14	acquired 156:13	145:3 153:21	203:25 205:5	adjustment
266:23 267:4	acronym 12:16	157:5,5 221:12	206:4,12	221:11
284:19 314:12	acronyms 11:18	265:15 268:4	226:17,21	adm 211:3
able 107:24	12:11	actual 31:17	239:19 250:25	212:10 214:13
128:16 140:23	act 9:4 13:19,21	47:21 61:23	256:10 270:21	215:14 219:12
295:24 299:21	13:22,23 14:1	70:25 71:10	271:6 289:4	220:2,5,10
abovenamed	28:11 38:10	73:21 94:11	303:11,16,19	221:12 222:2
313:14	61:17 252:9	113:16 200:24	304:14,17	222:15 223:8,8
absent 74:20	258:7,13,17,19	201:3,5,5,6,15	ad 301:3	233:16 240:16
accept 118:10	258:24 259:1	202:15 203:15	add 260:10	241:16,16
127:8 311:19	259:16	204:1 218:2,16	added 136:15,20	242:1,9,12
accepted 18:15	action 1:7 7:12	218:17,18,21	137:5,18 192:9	243:6 285:17
118:12 126:18	20:10 25:3 38:8	218:21,24	adding 137:2	administrative
126:22 132:8	84:1 89:20,22	219:5 220:20	308:6	35:20 89:17
220:11 232:10	91:11 111:3,5	220:25 221:3,5	addition 13:20	admits 244:4
273:8	111:11 201:11	226:25 227:5	15:4 18:2 20:11	adms 240:18
accepting 232:24	212:6 214:14	227:17 228:13	20:25 43:8 86:4	adopt 34:19
access 22:14	215:15 216:9	228:14 229:6	183:3 230:24	35:12
28:15 299:5	217:25 222:2	229:11,14,15	245:20 282:14	adopted 34:22
accommodated	229:3 266:18	230:2,3,4	309:21	63:4,23 64:8
219:13,16	266:18 267:10	232:10,23	additional 21:11	73:23 159:1,6
220:3,14,21	267:10 269:21	239:8,13 250:5	23:6 56:4,4	159:20 160:1
221:12,17,21	270:8 297:15	251:4,7 257:9	82:19 118:3	179:9 191:22
222:25 226:21	314:15,19	260:23 261:7	121:14 127:5	194:5,8,21
231:3,7,21,25	actions 16:4	261:16 274:8	161:5 167:8	261:18 303:15
232:19 296:22	45:18 46:5	305:21 306:6	236:2 242:9,12	304:7,9,13
297:8,10	172:10	actuality 61:2	243:6 244:10	adopting 179:6
accommodating	active 114:5	actuals 232:25	251:13,20	adoption 304:22
220:11 288:18	activities 15:1	278:22,23	309:7	307:3 310:5
accommodation	110:13,24	actualtoactual	additionally	advance 222:3
225:1	111:9,18 136:7	64:12 303:21	167:5	240:14 291:10
account 182:8	136:12,14	actualtoactual	additions 313:6	advising 186:17
297:13	137:2,8,22,25	250:13	address 9:13,16	advisory 104:24
accounting 311:8	138:1,7 139:4	actualtopotent	9:19 178:23	aeci 91:23 95:4,9
accumulated	140:11 143:15	256:14 261:1	249:11	95:23 97:8,19
95:25	144:4,14,22,24	305:11 306:18	addressed 88:2	117:25 123:23
accurate 33:22	145:1,5 172:19	307:4,8	110:8 150:12	124:18 126:5
122:14 153:8	241:16 242:6,9	actualtoprojec	184:22 264:7	126:17
167:15 248:6	242:12,19	179:10 204:8	addresses	affect 278:23
298:16 313:5	243:5,6 244:14	204:22 296:25	117:15	affirmed 93:2
270.10 313.3				

				Page 316
84 00.14	22.14.20.10	222.2.222.10	00400507	
afternoon 23:16	33:14 38:18	232:3 239:19	am00438506m	294:16 295:22
23:16 146:8	47:19 48:19	261:15	285:25	295:23 301:17
205:17 251:25	255:19 258:22	allows 195:10	am00442891	america 1:24
age 8:20 111:3	260:3 262:1,24	alter 131:16	210:18	7:11
agencies 44:6	274:12 276:19	276:3	am00446871m	ammunition
agency 8:8,13	285:8	am00014353	288:10	142:4 143:24
9:22 11:23	air 5:5 9:4,23	128:8	am00449529m	143:24
13:18 25:10	13:9,11,12,13	am00024472m	141:16	amo 49:2
40:15 148:9,15	13:14,15,17,19	277:10	am00631952m	amount 71:19
148:19 201:25	13:21,22,23	am00024490	103:22	75:9 131:23
298:22	14:1,9,15 15:19	163:25	am02317760m	199:3 220:20
agenda 42:4,8,17	16:5,19 18:21	am00024786m	107:9	311:10
42:20 43:2	24:7 28:11	113:10	ambient 210:21	analysis 15:19
aggregate	32:15 35:19	am00024788	211:14	48:13,15,15
244:14	36:20,21,22	117:15	ambiguous 11:3	56:3 57:1,17
aggregated	38:9 41:4 48:13	am00025847	11:7 55:22 57:9	58:5,6 87:9
241:17 243:6	61:17 64:14	157:23	61:7 69:25	149:25 150:13
243:11,15	67:13,15 87:9	am00025847m	70:12 71:15	153:10 156:3
245:4 285:21	104:3,4,12,24	152:21	73:25 79:18	165:24 188:11
287:11,25	106:12 109:19	am00025858m	82:1 87:2 97:1	200:8 204:19
aggregation	116:10 123:24	120:10	98:23 101:24	205:24 210:22
242:18,21,22	138:24 139:12	am00025862	122:16 133:7	211:7,15
243:14 244:1	139:13 140:9	124:15	134:6,18	215:18 218:22
244:11,24	161:5 165:8,13	am00025867m	181:12 183:1	231:21 273:21
245:2,10,15,20	173:25 177:14	89:1	189:21 199:10	273:25 274:4
286:21	191:14 210:21	am00025868m	201:1 206:6	275:7 277:24
ago 2:25 122:12	211:14 225:25	94:25	209:5,15	277:25 278:5,7
245:7 302:1	252:9 258:7,13	am00025869	297:11	278:19
agree 37:20	258:16,19,24	93:12	amend 61:14	analyzed 195:21
148:13 157:16	259:1,16	am00025884m	192:3	analyzing 257:7
189:18 199:8	alderson 3:11	89:1	amended 25:14	ancillary 236:8
agreed 7:1	alex 3:3,7 8:7	am00025889	25:16,19 61:6	andrew2:3,9 8:2
165:17 200:8	align 141:5	310:20	268:13,16,18	23:12,17 252:1
228:25 229:16	aligned 141:17	am00025889m	268:23	253:12,17 252.1
229:23 231:10	0		amendments	296:2
	alleging 172:10	284:9 am00128720		
231:16 232:21	alliant 142:3,8 142:16	am00128720 175:20	61:17	annual 101:22
238:17 239:7	. –		ameren 1:9,13	102:1,4,6 106:2
294:17	allinclusive	am00128956	1:24 7:12,20,22	200:20,24
agreeing 167:1	155:2	175:15	9:3 26:3,6	218:11 220:8
205:8 239:11	allowable 165:25	am0043316mdnr	27:21 49:10	annually 218:9
agreement 28:20	allowed 53:24	184:2	172:4,16 209:4	218:11 280:14
28:23	144:22 202:15	am00433316m	252:7 257:12	answer 10:23
ahead 19:22 29:7	206:22 220:17	279:14	268:10,17,21	11:10,11 12:16

Γ				Page 317
23:22 29:7	223:6	47:4 63:17 65:6	197:7,20,23	51:2 53:21 54:7
41:23 42:2	anytime 41:24	66:6,10 73:13	204:6 207:10	54:10,19,23
47:19 59:1	anyway 64:5	73:21 76:21,23	208:9,12,16,20	55:3,6,10,16
68:23 71:17	218:9	76:25 77:18	208:25 212:5	55:19,24,25
80:10 81:1	арср 143:9	82:8,9 83:8,13	218:15 220:2	56:1 57:2 78:14
86:18 87:17	apologize 31:20	86:19,23 87:5	226:18 229:10	79:5 80:13 81:7
117:13 131:6	175:16 253:25	87:13 90:12,21	229:22 234:21	90:2 216:21
137:15,19	255:23 260:22	91:4,22 92:7,12	234:24 235:9	222:6 226:20
154:3 160:17	291:10 297:2	93:19 94:14,18	235:16 236:4	227:21 241:21
160:19 174:24	307:17	95:2 96:14	240:21 241:6	242:1,2 245:6
176:17 180:5	apparent 286:9	98:22 101:5	241:18 244:9	306:18 308:5,6
180:21,22	appeals 193:6	105:25 106:18	244:20,21,23	applications
181:8,13 182:3	appear 82:4	108:21 110:24	244:25 247:15	49:18 51:3,3
182:5,6 190:3,6	108:3,4 114:24	113:16,20	250:22 254:5	55:1 91:8
206:9 232:25	120:22 123:22	114:25 115:22	255:7 257:7	222:18 283:11
243:25 245:10	124:8 128:3	115:25 118:25	259:18,22,23	283:11
255:21 256:13	142:24 151:9	119:7 120:23	260:14,17,23	applied 37:24
268:20 286:20	166:18 213:1	121:2,7,15	261:17 265:6	145:4 170:1
291:17 292:8	215:6	123:1,5 124:5	267:1 268:2	181:25 190:10
292:13 293:12	appearance 7:17	128:4,11,20	270:21 271:6	216:24 261:3
296:20 306:1	appeared 313:15	129:1,6,21	275:15 280:19	261:10 263:2
answered 73:3	appears 76:20	130:1 131:8	282:14 283:9	271:5 304:20
170:3 175:1	92:3 97:4,14	133:22 134:14	283:15,20	307:4 310:4
181:3 204:18	109:25 111:11	135:4 136:4	284:5 298:25	applies 188:13
204:24 258:21	117:24 118:11	141:8,12 142:2	299:6 300:1,9	280:21 294:23
287:12 288:20	119:2 126:16	142:9 143:5,25	300:23 302:9	295:3,7
290:8,20	132:5 165:10	144:17,18	302:21 303:24	apply 64:12
answering	191:11 284:14	145:7,14	304:21 305:24	74:16 165:19
232:11 261:9	296:7 314:10	146:23 151:11	307:5	200:11 262:21
297:3,24	appendices	151:20 152:1	applicable 36:24	263:8,9,13
answers 11:1	176:20	154:11,23	37:1 65:10	267:19 270:6
100:11 243:23	appendix 178:1,1	155:10 158:18	209:4 261:14	278:19 287:10
294:11	178:3,5,7,22	159:13 160:10	263:3 265:12	289:3 303:18
anticipate 73:2	179:14,14	160:23,25	applicant 48:7	305:21
93:4 118:1	applicability 5:10	161:3 162:4	51:4 54:7 55:25	applying 37:2
199:25	5:15,17,21,23	163:16,19	56:11,13 100:1	159:25
anticipated 71:1	6:3,7,13,15	164:8,18 166:3	134:8	appreciable
anticipating	14:16,20 16:12	166:16 168:11	applicants 51:1	139:10
291:11	17:9,12 18:25	168:12 170:2	52:24 159:18	appreciate 10:25
anticipation	31:3,5 32:17	171:5 174:18	160:5 284:3	33:22
196:24	35:2 36:8,11	181:24 184:19	application 42:25	approach 63:16
anybody 23:9	37:17,21 39:5,8	186:16 190:11	47:25 48:2,4,9	105:19 182:1
anymore 181:2	42:19 44:20,20	195:23 196:7	48:10,11,12	182:20 204:23

189:9302:17assertions71:1,11 80:17148:14appropriateasked 24:5 39:12172:14 204:2184:20 130:17authority 13:1965:16 209:1850:13 51:20asserts 209:12165:231:11 32:5,15					Page 318
244:24 aside 28:25 asserting 26:11 asume 11:7 240:18 approached 176:20 297:15 assertions 23:17 44:15 authori 122:3 appropriate asked 24:5 39:12 assertions 71:1,11 80:17 14:14 appropriate asked 24:5 39:12 asserts 209:12 165:2 31:11 32:5,15 approval 34:15 98:6 119:25 assess 165:20 assuming 68:23 authority 13:19 approve 34:20 203:5,13,18 assessment 105:12 155:19 115:25 125:12 193:25 204:17.24 106:18 115:22 157:19 129:25 143:4 approve 34:20 203:5,13,18 assessment assumet 105:12 155:19 115:25 122:5 approve 34:21 252:8 258:1 24:18 245:16 155:24 16!:2 235:9 24!:5 235:9 24!:5 approving 265:1 266:13 assessments asterisk 239:13 automatically 269:15 276:21 287:12 82:10 87:13 att 41:16 35:12 53:25 approximate 288:19 20:08 98:22 attached4:9 30:22 48:15 281:7 <td>205:8 207:4,5</td> <td>articles 21:3,17</td> <td>asserted 26:3</td> <td>273:4 274:18</td> <td>august 49:20</td>	205:8 207:4,5	articles 21:3,17	asserted 26:3	273:4 274:18	august 49:20
approached 176:20 297:15 assertion 172:13 23:17 44:15 author 122:3 189:9 302:17 assertions 71:1,11 80:17 148:14 appropriate asked 24:5 39:12 172:14 204:21 84:20 130:17 authority 13:19 65:16 209:18 50:13 51:20 asserts 209:12 165:2 31:11 32:5,15 approval 34:15 98:6 119:25 assessing 83:8 70:5,11 189:5 151:25 195:6 271:5 190:14 192:8 105:24 308:15 assuming 68:23 authorize/93:18 approved 34:12 230:20 241:21 124:6 218:15 assumption 115:25 12:2:25 193:25 204:17,24 106:18 115:22 157:19 129:25 14:3:4 approved 34:12 230:20 241:21 124:6 218:15 assured 190:7 247:15 270:21 approving 265:1 266:13 assesements asterisk 239:13 automatically 269:15 276:21 287:12 82:10 87:13 atk 141:16 30:22 48:15 281:7 295:19 296:19 90:1,8 44:25 234:1 51:15,18 52:6,9 291:49:49	208:18 244:22	articulate 255:12	293:18	297:21	51:25 76:18
189:9 302:17 assertions 71:1,11 80:17 148:14 appropriate asked 24:5 39:12 172:14 204:21 84:20 130:17 authority 13:19 65:16 209:18 50:13 51:20 asserts 209:12 165:2 33:411 32:5,15 approval 34:15 98:6 119:25 asserts 209:12 165:2 33:411 18:5 34:17 35:6 128:19 170:21 assessing 83:8 70:5,11 189:5 151:25 195:6 271:5 190:14 192:8 105:24 308:15 assumption 163:15 197:19 193:25 204:17,24 106:18 115:22 157:19 112:25 12:25 approved 34:12 230:20 241:21 124:6 218:15 assumption 163:15 197:19 34:23 261:21 252:8 258:21 241:18 245:16 155:24 161:2 235:9 241:5 approving 265:1 266:13 asserment astrisk 239:13 automatelly approximate 288:19 290:8 98:22 attached4:9 30:22 48:15 approximate 288:19 290:8 98:22 attached4:9 30:24 88:15 approximate 298:8 302:19	244:24	aside 28:25	asserting 26:11	assume 11:7	240:18
appropriate asked 24:5 39:12 172:14 204:21 84:20 130:17 authority 13:19 65:16 209:18 50:13 51:20 asserts 209:12 165:2 31:11 32:5,15 approval 34:15 98:6 119:25 asserts 209:12 asserume 69:23 33:4 118:5 34:17 35:6 128:19 170:21 assessme 83:8 70:5,11 189:5 151:25 195:6 271:5 190:14 192:8 105:24 308:15 assumping 68:23 authorized93:18 approve 34:20 203:5,13,18 assessment 105:12 155:19 115:25 122:25 assimption 163:15 197:19 34:23 261:21 252:8 258:21 241:18 245:16 155:24 161:2 235:9 241:5 approving 265:1 266:13 assessments asterisk 239:13 automatically 269:15 276:21 287:12 88:10 87:13 att 141:16 35:12 53:25 approximate 288:19 290:8 98:22 attachmedt 30:22 48:15 281:7 295:19 296:19 90:1,8 44:25 234:1 51:15,18 52:6,9 approximatel 288:19 290:2 93:3 11:1 attachmedt 52:17,22.3 <td>approached</td> <td>176:20 297:15</td> <td>assertion 172:13</td> <td>23:17 44:15</td> <td>author 122:3</td>	approached	176:20 297:15	assertion 172:13	23:17 44:15	author 122:3
65:16 209:18 50:13 51:20 asserts 209:12 165:2 31:11 32:5,15 approval 34:15 98:6 119:25 assessing 83:8 70:5,11 189:5 151:25 195:6 approve 34:20 203:5,13,18 assessment 105:24 308:23 authorized93:18 approve 34:22 203:5,13,18 assessment 105:12 155:519 115:25 122:25 193:25 204:17,24 106:18 115:22 125:24 163:15 197:19 34:23 261:12 258:28 282:12 241:18 245:16 assured 190:7 247:15 202:24 approving 265:1 265:12 88:19 98:22 attached 313:7 available 20:24 28:19 290:20,21 assign 31:11 attached 4:49 30:22 48:15 36:12 37:25:25 approximate 288:81 20:20,21 assign 31:11 attached 4:49 30:22 48:15 30:17 29:88		302:17	assertions	71:1,11 80:17	148:14
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	appropriate	asked 24:5 39:12	172:14 204:21	84:20 130:17	authority 13:19
34:17 35:6 128:19 170:21 assessing 83:8 70:5;11 189:5 151:25 195:24 271:5 190:14 192:8 105:24 308:15 assuming 68:23 authorized93:18 approve 34:20 203:5;13,18 assessment 105:12 155:19 115:25 122:25 193:25 204:17,24 106:18 115:22 157:19 129:25 143:4 approve34:12 250:20:214 124:4 185:14 assumption 163:15 197:19 34:23 261:12 252:8 258:11 28:10 87:11 asterisk 239:13 automatically 269:15 276:21 287:12 89:10 89:22 attach 31:37 available 20:24 281:7 295:19 290:20,21 assign 31:11 attached4:9 30:22 48:15 88:15 28:17 29:518 28:62 98:22 attach 115:18 28:20 86:37 27:17 48:10 90:1.8 44:25 23:11		50:13 51:20	asserts 209:12	165:2	•
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	approval 34:15	98:6 119:25	assess 165:20	assumes 69:23	33:4 118:5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	34:17 35:6	128:19 170:21	assessing 83:8	70:5,11 189:5	151:25 195:6
approve 34:20203:5,13,18assessment105:1215:25115:25122:25193:25204:17,24106:18115:22157:19129:25143:4approved 34:12230:20241:21124:6218:15assumption163:15197:1934:23261:21252:8258:21241:18245:16155:24161:2235:9241:5approves 34:9259:17265:1266:13assessmentsassured 190:7247:15270:21approvimate288:19290:898:22attach 313:7available 20:2422:1946:9290:20,21assign 31:11attached 4:930:2248:15281:7295:19296:1990:1,844:25234:151:15,1852:6,9approximate298:8302:19assigned 30:22attach ment52:17,22,2371:071:2,22asking 11:6,731:1,432:11210:20,2478:2086:3,771:1712:1243:1548:11<90:14,14	271:5	190:14 192:8	0	,	authorized 93:18
193:25204:17,24106:18 115:22157:19129:25 143:4approved 34:12230:20 241:21124:6 218:15assumption163:15 197:1934:23 261:21252:8 258:21241:18 245:16155:24 161:2235:9 241:5approving265:1 266:13assesmentsasterisk 239:13automatically269:15276:21 287:1282:10 87:13atk 141:1635:12 53:25approximate288:19 290:898:22attach 313:7available 20:2422:19 46:9290:20,21assigned 30:22attached4:930:22 48:15281:7295:19 296:1990:1,844:25 234:151:15,18 52:6,9approximate298:8 302:19assigned 30:22attachment52:17,22,237:10 17:2,22asking 11:6,731:1,4 32:11210:20,2478:20 86:3,77:10 17:2,22asking 11:6,731:1,4 32:11210:20,2478:20 86:3,790:23 111:1946:12 54:6 56:293:3 112:16attempt 105:5180:16 244:17112:2 122:1881:10 97:15115:23 122:1137:19 293:24258:2 299:2226:9124:9,20 142:2129:3 163:22attempt e1170:4average 46:6185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attended 177:9282:12187:11,12188:14 189:1431:17,21176:25average 46:6185:10,12199:1199:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assign 63	approve 34:20		assessment	0	
approved $34:12$ $230:20\ 241:21$ $124:6\ 218:15$ assumption $163:15\ 197:19$ $34:23\ 261:21$ $252:8\ 258:21$ $241:18\ 245:16$ $155:24\ 161:2$ $235:9\ 241:5$ approves $34:9$ $259:17\ 262:16$ $250:14\ 251:1$ assured 190.7 $247:15\ 270:21$ approving $265:1\ 266:13$ assessmentsasterisk $239:13$ automatically $269:15$ $276:21\ 287:12$ $82:10\ 87:13$ atk $141:16$ $35:12\ 53:25$ approximate $288:19\ 290:8$ $98:22$ attach $313:7$ available $20:24$ $22:19\ 46:9$ $290:20.21$ assign $31:11$ attached $44:9$ $30:22\ 48:15$ $281:7$ $295:19\ 296:19$ $90:1,8$ $44:25\ 234:1$ $51:15,18\ 52:6,9$ approximately $298:8\ 302:19$ assigned $30:22$ attachment $52:17,22,23$ $7:10\ 17:2,22$ asking $11:6,7$ $31:1,4\ 32:11$ $210:20,24$ $78:20\ 86:3,7$ $27:17\ 44:10$ $12:12\ 43:15$ $48:11\ 90:14,14$ $257:15$ $105:4\ 113:1$ $90:23\ 111:19$ $46:12\ 24:4:17$ $137:19\ 293:24$ $28:2\ 299:2$ $226:9$ $124:9,20\ 142:2$ $129:3\ 163:22$ attempted $170:4$ ave $3:12$ $april\ 184:7,16,22$ $144:13\ 149:23$ $197:23\ 282:14$ $286:21$ $average\ 46:6$ $185:10,12$ $170:19\ 171:1$ $283:6$ $attend\ 41:14$ $55:5,9,13,18$ $186:3,12,12,21$ $185:10,19$ $assigns\ 31:11$ $attend\ 41:14$ $55:5,9,13,18$ $186:4,19$ $194:18\ 203:17$ $assign\ 30:24$ $attend\ 41:14$ <td></td> <td></td> <td>106:18 115:22</td> <td>157:19</td> <td>129:25 143:4</td>			106:18 115:22	157:19	129:25 143:4
34:23 261:21252:8 258:21241:18 245:16155:24 161:2235:9 241:5approving265:1 266:13assessmentsasterisk 239:13automatically269:15276:21 287:1282:10 87:13atk 141:1635:12 53:25approximate288:19 290:898:22attached 4:930:22 48:1522:19 46:9290:20,21assign 31:11attached 4:930:22 48:15approximate298:3 02:19assign 30:22attachment52:17,22,23approximately298:8 302:19assigned 30:22attachment52:17,22,237:10 17:2,22asking 11:6,731:1,4 32:11210:20,2478:20 86:3,727:17 44:1012:12 43:1548:11 90:14,14257:15105:4 113:190:23 111:1946:12 54:6 56:293:3 112:16attempt 105:5180:16 244:17112:2 122:1881:10 97:15115:23 122:1137:19 293:24average 46:6185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14 189:1431:17,21176:25averaging190:11 197:3206:25 207:18assist 15:3 30:24attended 177:9averaging204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25204:6 279:17271:13 290:139:13 40:6 43:1attorney 3:1662:3,6,23 64:13198:11,16 <t< td=""><td>approved 34:12</td><td><i>,</i></td><td></td><td>assumption</td><td></td></t<>	approved 34:12	<i>,</i>		assumption	
approves34:9259:17262:16250:14251:11assured190:7247:15270:21approving265:1266:13assessmentsasterisk239:13automatically269:15276:21287:1282:1087:13atk141:1635:1253:25approximate288:19290:898:22attach313:7available20:24281:7295:19296:1990:1,844:25234:151:15,1852:6,9approximately298:8302:19assigned30:22attachment52:17,22,237:1017:2,22asking11:6,731:1,432:11210:20,2478:2086:3,77:1774:1012:1243:1548:1190:14,14257:15105:4113:190:23111:1946:1254:656:293:3112:16attempt 105:5180:16244:17112:2122:1881:1097:15115:23122:1137:19293:24258:2299:2226:9124:9,20142:2129:3163:22attendted170:4average46:6185:10,12170:19171:1283:6attendded170:4average239:15,20187:11,12188:14189:1431:17,21176:25average46:6185:10,12170:19171:1283:6attended177:9282:12190:11197:3206:25207:18assigns 40:18attended279:13 </td <td></td> <td></td> <td></td> <td>-</td> <td></td>				-	
approving 269:15265:1 266:13 276:21 287:12assessments 82:10 87:13asterisk 239:13 atk 141:16automatically 35:12 53:25approximate 221:19 46:9288:19 290:898:22 28:17attach 313:7 295:19 296:19available 20:24 30:22 48:15281:7 295:19 296:19295:19 296:19 298:8 302:1990:1,8 assigned 30:22 31:1,4 32:11attached 4:9 210:20,2430:22 48:15 30:22 48:15approximately 298:8 302:19298:8 302:19 assigned 30:22attachment attachment52:17,22,23 71:0 17:2,2237:10 17:2,22 298:8 302:19asking 11:6,7 46:12 54:6 56:231:1,4 32:11 91:3 11:14210:20,24 210:20,2478:20 86:3,7 78:20 86:3,790:23 111:19 10:23 111:1946:12 54:6 56:2 48:11 97:1593:3 112:16 115:23 122:1attempt 105:5 180:16 244:17180:16 244:17 112:2 122:18 211:19 293:24258:2 299:2 28:2 299:2226:9 226:9124:9,20 142:2 124:9,20 142:2129:3 163:22 129:3 163:22attempt 170:4 average 46:6 attend 41:14 239:15,20average 46:6 239:15,20185:10,12 190:11 197:3170:19 171:1 283:6283:6 attended 177:9 282:12average 46:6 averaging attended 177:9 282:12 averaging188:4,19 199:11 197:3 206:25 207:18 206:25 207:18 <br< td=""><td>approves 34:9</td><td>259:17 262:16</td><td>250:14 251:1</td><td>assured 190:7</td><td></td></br<>	approves 34:9	259:17 262:16	250:14 251:1	assured 190:7	
269:15276:21 287:1282:10 87:13atk 141:1635:12 53:25approximate288:19 290:898:22attach 313:7available 20:2422:19 46:9290:20,21assign 31:11attached 4:930:22 48:15281:7295:19 296:1990:1,844:25 234:151:15,18 52:6,9approximately298:8 302:19assigned 30:22attachment52:17,22,237:10 17:2,22asking 11:6,731:1,4 32:11210:20,2478:20 86:3,727:17 44:1012:12 43:1548:11 90:14,14257:15105:4 113:190:23 111:1946:12 54:6 56:293:3 112:16attempt 105:5180:16 244:17112:2 122:1881:10 97:15115:23 122:1137:19 293:24258:2 299:2226:9124:9,20 142:2129:3 163:22attempt 170:4ave 31:2april 184:7,16,22144:13 149:23197:23 282:14286:21average 46:6185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14 189:1431:17,21176:25averaging188:4,19194:18 203:17assign 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attended 177:9282:1220:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:1920:6220:13 303:10216:3314:1742:23 44:16177:12 198:4209:9 310:18associated 5:3314:1742			assessments		
approximate288:19 290:898:22attach 313:7available 20:2422:19 46:9290:20,21assign 31:11attached4:930:22 48:15281:7295:19 296:1990:1,844:25 234:151:15,18 52:6,9approximately298:8 302:19assigned 30:22attachment52:17,22,237:10 17:2,22asking 11:6,731:1,4 32:11210:20,2478:20 86:3,727:17 44:1012:12 43:1548:11 90:14,14257:15105:4 113:190:23 111:1946:12 54:6 56:293:3 112:16attempt 105:5180:16 244:17112:2 122:1881:10 97:15115:23 122:1137:19 293:24258:2 299:2226:9124:9,20 142:2129:3 163:22attempted 170:4ave 3:12april 184:7,16,22144:13 149:23197:23 282:14286:21average 46:6185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assignig 31:11attendance239:15,20187:11,12188:14 189:1431:17,21176:25averaging188:4,19194:18 203:17assigns 40:18attentiod 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attentiod 22:16avoid 202:16197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:227:14 28:18,25204:6 279:17305:9 310:18 <td< td=""><td></td><td></td><td></td><td></td><td>•</td></td<>					•
22:19290:20,21assign $31:11$ attached $4:9$ $30:22 \ 48:15$ 281:7295:19 296:1990:1,8attachment $51:15,18 \ 52:6,9$ approximately298:8 $302:19$ assigned $30:22$ attachment $52:17,22,23$ 7:10 17:2,22asking $11:6,7$ $31:1,4 \ 32:11$ $210:20,24$ $78:20 \ 86:3,7$ 27:17 44:10 $12:12 \ 43:15$ $48:11 \ 90:14,14$ $257:15$ $105:4 \ 113:1$ 90:23 111:19 $46:12 \ 54:6 \ 56:2$ $93:3 \ 112:16$ attempt $105:5$ $180:16 \ 244:17$ $112:2 \ 122:18$ $81:10 \ 97:15$ $115:23 \ 122:1$ $137:19 \ 293:24$ $258:2 \ 299:2$ $226:9$ $124:9,20 \ 142:2$ $129:3 \ 163:22$ attempted $170:4$ ave $3:12$ april $184:7, 16,22$ $144:13 \ 149:23$ $197:23 \ 282:14$ $286:21$ average $46:6$ $185:10,12$ $170:19 \ 171:1$ $283:6$ attend $41:14$ $55:5,9,13,18$ $186:3,12,12,21$ $185:10,19$ assigning $31:11$ attend $41:14$ $55:5,9,13,18$ $188:4,19$ $194:18 \ 203:17$ assign $40:18$ attended $177:9$ $282:12$ $190:11 \ 197:3$ $206:25 \ 207:18$ assist $15:3 \ 30:24$ attended $177:9$ $282:12$ $204:6 \ 279:17$ $271:13 \ 290:1$ $39:13 \ 40:6 \ 43:1$ $203:16 \ 227:11$ $203:16 \ 227:11$ $198:11,16$ $237:24 \ 250:15$ $39:13 \ 40:6 \ 43:1$ $27:14 \ 28:18,25$ $29:9 \ 33:19$ $204:6 \ 279:17$ $271:13 \ 290:1$ $39:13 \ 40:6 \ 43:1$ $7:25 \ 23:11 \ 28:8$ $29:9 \ 33:19$ $205:5$					
281:7295:19296:1990.1,844:25234:151:15,1852:6,9approximately298:8302:19assigned 30:22attachment52:17,22,237:1017:2,22asking 11:6,731:1,432:11210:20,2478:2086:3,727:1744:1012:1243:1548:1190:14,14257:15105:4113:190:23111:1946:1254:656:293:3112:16attempt 105:5180:16244:17112:2122:12115:09:12115:23122:1137:19293:24258:2299:2226:9124:9,20142:2129:3163:22attempt 107:4ave 3:12april 184:7,16,22144:13149:23197:23282:14average 46:6185:10,12170:19171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14189:1431:17,21176:25averaging188:4,19194:18203:17assigns 40:18attended 177:9282:12190:11197:3206:25207:18assist 15:330:24attended 177:9282:12198:11,16237:24250:15assistance 39:2179:13217:4aware 26:2,5204:6279:17271:13290:139:1340:643:1attorney2:2227:1428:18,25205:5296:12299:2543:4104:107:25					
approximately298:8 302:19 asking 11:6,7assigned 30:22 31:1,4 32:11attachment52:17,22,23 78:20 86:3,77:10 17:2,22 27:17 44:1012:12 43:1548:11 90:14,14257:15105:4 113:190:23 111:1946:12 54:6 56:293:3 112:16attempt 105:5180:16 244:17112:2 122:1881:10 97:15115:23 122:1137:19 293:24258:2 299:2226:9124:9,20 142:2129:3 163:22attemptel 170:4ave 3:12april 184:7,16,22144:13 149:23197:23 282:14286:21average 46:6185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14 189:1431:17,21176:25averaging188:4,19194:18 203:17assigns 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attention 42:16avoid 202:16197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1314:1742:23 44:16275:17302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorney 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 1		,	0		
7:107:2,22asking11:6,731:1,432:11210:20,2478:2086:3,727:1744:1012:1243:1548:1190:14,14257:15105:4113:190:23111:1946:1254:656:293:3112:16attempt105:5180:16244:17112:2122:1881:1097:15115:23122:1137:19293:24258:2299:2226:9124:9,20142:2129:3163:22attempted170:4ave 3:12april184:7,16,22144:13149:23197:23282:14286:21average46:6185:10,12170:19171:1283:6attend41:1455:5,9,13,18239:15,20187:11,12188:14189:1431:17,21176:25averaging188:4,19190:11197:3206:25207:18assigns 40:18attended177:9282:12190:11197:3206:25207:18assist15:330:24attended177:9282:12190:11197:3206:25207:18assistance39:2179:13217:4aware26:2,5204:6279:17271:13290:139:1340:643:1attorney222:227:1428:18,25205:5296:12299:2543:4104:107:2523:1128:5145:14275:17305:9310:18assisting215:19attorneys7:1662:3,6,23<64:13			,		
27:17 44:1012:12 43:1548:11 90:14,14257:15105:4 113:190:23 111:1946:12 54:6 56:293:3 112:16attempt 105:5180:16 244:17112:2 122:1881:10 97:15115:23 122:1137:19 293:24258:2 299:2226:9124:9,20 142:2129:3 163:22attempted 170:4ave 3:12april 184:7,16,22144:13 149:23197:23 282:14286:21average 46:6185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14 189:1431:17,21176:25averaging188:4,19194:18 203:17assigns 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attention 42:16avoid 202:16197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25208:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asneeded 41:1489:8 115:1289:24172:2,12 173:1army 143:24asphalt 94:6116:19 120:24 <td></td> <td></td> <td>U</td> <td></td> <td></td>			U		
90:23 111:1946:12 54:6 56:293:3 112:16attempt 105:5180:16 244:17112:2 122:1881:10 97:15115:23 122:1137:19 293:24258:2 299:2226:9124:9,20 142:2129:3 163:22attempted 170:4ave 3:12april 184:7,16,22144:13 149:23197:23 282:14286:21average 46:6185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14 189:1431:17,21176:25averaging188:4,19194:18 203:17assigns 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attention 42:16avoid 202:16197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25280:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed232:2145:20 148:21294:3asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18		0	· ·		,
112:212:2115:23115:23122:1137.19293:24258:2299:2226:9124:9,20142:2129:3163:22attempted170:4ave3:12april184:7,16,22144:13149:23197:23282:14286:21average46:6185:10,12170:19171:1283:6attend41:1455:5,9,13,18186:3,12,12,21185:10,19assigning31:11attendance239:15,20187:11,12188:14189:1431:17,21176:25averaging188:4,19194:18203:17assigns40:18attended177:9190:11197:3206:25207:18assist15:330:24attention42:16197:12198:4209:9,1151:276:14135:18203:16227:11198:11,16237:24250:15assistance39:2179:13217:4aware26:2,5204:6279:17271:13290:139:1340:643:1attorney2:2227:1428:18,25280:5296:12299:2543:4104:107:2523:1128:829:933:19aquila132:5302:13303:10216:3314:1742:2344:16275:17305:9310:18associated5:323:12,14138:5145:14198:18,22181:55:10,1326:20attributed23:2:2145:20148:21294:3asneed					
226:9124:9,20 142:2129:3 163:22attempted 170:4ave 3:12april 184:7,16,22144:13 149:23197:23 282:14286:21average 46:6185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14 189:1431:17,21176:25averaging188:4,19194:18 203:17assigns 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attention 42:16avoid 202:16197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25280:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 223:2145:20 148:21294:3asneeded 41:1489:8 115:1289:24172:2,12 173:1army 143:24asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18				-	
april 184:7,16,22144:13 149:23197:23 282:14286:21average 46:6185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14 189:1431:17,21176:25averaging188:4,19194:18 203:17assigns 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attention 42:16avoid 202:16197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25280:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asneeded 41:1489:8 115:1289:24172:2,12 173:1army 143:24asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18					
185:10,12170:19 171:1283:6attend 41:1455:5,9,13,18186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14 189:1431:17,21176:25averaging188:4,19194:18 203:17assigns 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attention 42:16avoid 202:16197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25280:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18		,		-	
186:3,12,12,21185:10,19assigning 31:11attendance239:15,20187:11,12188:14 189:1431:17,21assigns 31:1131:17,21averaging188:4,19194:18 203:17assigns 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attended 177:9282:12197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:239:13 40:6 43:1attorney 2:2227:14 28:18,25204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25280:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18	-				U
187:11,12188:14 189:1431:17,21176:25averaging188:4,19194:18 203:17assigns 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attention 42:16avoid 202:16197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25280:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18					
188:4,19194:18 203:17assigns 40:18attended 177:9282:12190:11 197:3206:25 207:18assist 15:3 30:24attention 42:16avoid 202:16197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25280:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:195:10,13 26:20attributed 232:2145:20 148:21198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18		,	0 0		
190:11 197:3 197:12 198:4 198:11,16 206:25 207:18 204:6 279:17 206:12 299:25206:25 207:18 207:13 290:1 271:13 290:1 296:12 299:25assist 15:3 30:24 51:2attention 42:16 76:14 135:18 179:13 217:4avoid 202:16 203:16 227:11aquila 132:5 275:17 198:18,22 294:3207:13 303:10 302:13 303:10216:3 assisting 215:19 assisting 215:19 associated 5:3 5:10,13 26:20attorney 2:22 23:12,14avoid 202:16 203:16 227:11aquila 132:5 296:12 299:25296:12 299:25 43:4 104:10314:17 216:342:23 44:16 62:3,6,23 64:13area 15:15 109:2 294:3asks 180:19 181:5associated 5:3 5:10,13 26:2023:12,14 289:24138:5 145:14 145:20 148:21 172:2,12 173:1army 143:24asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18	,		,		
197:12 198:4209:9,1151:276:14 135:18203:16 227:11198:11,16237:24 250:15assistance 39:2179:13 217:4aware 26:2,5204:6 279:17271:13 290:139:13 40:6 43:1attorney 2:2227:14 28:18,25280:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18	,		0		
198:11,16 204:6 279:17 280:5237:24 250:15 271:13 290:1 296:12 299:25assistance 39:2 39:13 40:6 43:1179:13 217:4 attorney 2:22aware 26:2,5 27:14 28:18,25aquila 132:5 275:17296:12 299:25 302:13 303:1043:4 104:10 216:37:25 23:11 28:8 314:1729:9 33:19 42:23 44:16area 15:15 109:2 198:18,22asks 180:19 181:5associated 5:3 5:10,13 26:20314:17 23:12,1462:3,6,23 64:13 138:5 145:14army 143:24asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18					
204:6 279:17 280:5271:13 290:1 296:12 299:2539:13 40:6 43:1 43:4 104:10attorney 2:22 7:25 23:11 28:827:14 28:18,25 299:33:19aquila 132:5 275:17302:13 303:10 305:9 310:18216:3 assisting 215:19attorneys 7:16 216:362:3,6,23 64:13 148:5 145:14area 15:15 109:2 198:18,22asks 180:19 181:5associated 5:3 5:10,13 26:2023:12,14 289:24138:5 145:14 145:20 148:21 172:2,12 173:1army 143:24asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18		,			
280:5296:12 299:2543:4 104:107:25 23:11 28:829:9 33:19aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asneeded 41:1489:8 115:1289:24172:2,12 173:1army 143:24asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18					,
aquila 132:5302:13 303:10216:3314:1742:23 44:16275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asneeded 41:1489:8 115:1289:24172:2,12 173:1army 143:24asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18				•	,
275:17305:9 310:18assisting 215:19attorneys 7:1662:3,6,23 64:13area 15:15 109:2asks 180:19associated 5:323:12,14138:5 145:14198:18,22181:55:10,13 26:20attributed 232:2145:20 148:21294:3asneeded 41:1489:8 115:1289:24172:2,12 173:1army 143:24asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18					
area 15:15 109:2 198:18,22 294:3asks 180:19 181:5associated 5:3 5:10,13 26:2023:12,14138:5 145:14asneeded 41:14 army 143:24181:55:10,13 26:20 89:8 115:1attributed 232:2 289:24145:20 148:21 172:2,12 173:1army 143:24asphalt 94:6116:19 120:24audit 43:17,21173:17 188:18	-				
198:18,22 294:3 army 143:24181:55:10,13 26:20 89:8 115:1attributed 232:2145:20 148:21145:20 148:21145:20 148:21116:19 120:24172:2,12 173:1116:19 120:24173:17 188:18			0	-	
294:3 army 143:24asneeded 41:14 asphalt 94:689:8 115:1 116:19 120:24289:24 audit 43:17,21172:2,12 173:1 173:17 188:18				, ,	
army 143:24 asphalt 94:6 116:19 120:24 audit 43:17,21 173:17 188:18			· ·		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	•	-			
	410.1 <i>J</i>	40001123.21	121.7 120.22	1 1.1	200.3,5 207.10

				Page 319
209:11 216:10	bactidentified	218:22,24	103:21 107:8	better 46:24
222:20 244:23	57:25	220:7,17,25	beginning 254:9	268:6
306:5	barrel 96:1,3	233:4 239:8	278:12	beyond 55:21
awhile 50:7	base 55:8 248:12	250:5 251:8	begins 66:24	173:4
172:9 173:6	248:16	305:21 306:10	269:25 279:14	bigger 182:25
	based 60:4 61:15	306:16	286:3,6 288:10	bill 311:10
B	61:16 63:2,8	baseloaded	289:8	billed 311:4
b 1:12,16 4:14	70:15 73:17	248:9	behalf 1:13 7:20	binder 4:16,18
8:10 10:10 78:4	78:17 92:20	basically 139:2	7:22,25 8:3,5	20:25 194:12
81:13 153:20	95:22 97:4	185:22 187:4	8:13 10:14	194:14 279:9
206:24 271:12	102:14,20,23	218:11 229:14	123:2 130:2	291:23 292:2
309:3	103:2 105:11	239:10 297:23	152:1 178:11	binders 19:10,14
bachelors 146:16	108:5,11	basing 166:23	179:17 184:12	19:16,20 20:3,5
back 23:4 32:2,3	112:25 117:3	basis 27:11 30:2	197:20	20:8,19 291:14
42:3 44:15	119:2 120:21	40:11,14,17	believe 17:22	292:4,5
59:15 64:1	123:15,21	106:2 155:23	18:7 24:22 40:4	birth 9:25
66:23 71:21	125:16 126:3	156:6,7,17	43:23 45:23	bit 33:24 38:2
76:12 83:6	126:16 127:11	161:8,20	46:3 54:20	47:21 59:20
84:20 97:25,25	129:23 130:25	165:13 169:2	55:12 60:11,16	89:12 94:15
107:4 109:12	132:4 134:9	172:12 173:1	60:22 62:14	99:24 136:3
135:18 138:9	141:11 144:3	174:11,17	63:1 66:23	138:6 177:25
146:5,12	145:17 151:9	238:21 249:23	89:25 96:17	205:16 259:19
148:21,22	152:25 160:11	295:22	104:9,23	279:4
153:4 155:12	160:17 161:7	bates 49:4 108:2	126:21 141:24	blade 237:2
158:24 162:1	164:15 165:15	254:9,23	144:2 149:15	block 129:16
163:24 167:19	165:23 166:19	256:25 257:12	157:19 161:20	142:21 151:15
177:19 190:8	166:24 168:11	277:10 279:14	163:2 177:5	197:12 225:6
190:23 205:13	168:17 169:5	284:9 288:10	179:4 185:3	235:4 247:9
222:14 233:12	176:5,10 190:1	301:9	186:7 188:24	blue 249:14
245:7 249:12	190:2,3 201:17	batesstamp 49:2	194:11,24	250:4
251:14,17	201:20 204:8	88:25 93:12	195:18 197:3	bob 41:12
255:9 262:4	204:10 205:24	103:21 107:8	211:7 223:11	boil 106:7
268:11,25	207:8 214:1,11	108:2 109:13	233:18 240:16	boiler 58:20,25
271:17 279:3	216:21 222:5	117:15 120:10	250:1 255:22	103:3,5 116:6
310:12	231:1 236:1	124:13 152:21	266:7 294:13	116:21,21,24
background	238:24,24	163:25 179:14	300:4 311:17	116:25 117:19
288:23	247:1,6 250:1	210:18,24,24	beneficial 84:9	123:6,13,18,24
bact 48:14 56:3	250:16 259:2	batesstamped	best 48:15 78:19	123:25 124:1,6
56:22,23,25	259:15 268:3	113:10 141:16	90:10 170:13	124:25 125:25
57:1,3,7,13,16	268:15,24	310:20	190:3 266:23	126:2,15 127:9
57:19,20 58:5,6	292:16 295:10	bbi 248:9	267:3 283:20	130:11 131:3
bactcontrolled	baseline 206:13	bear 89:16	298:18,23	131:13,15,16
58:14	206:18 218:18	bearing 88:25	305:19 314:12	131:20,24
		-		

				Page 320
132:9,21	98:13 99:4,13	256:22 258:8	254:24 257:1	burner 101:6,7
139:17 140:7	99:19 102:3,16	258:21 259:8	boulevard 3:4	burners 95:3,10
145:8,8 148:10	103:12,18	259:17 260:2	boundaries	96:23 97:12,20
148:23 149:2	106:16,25	260:18 261:25	258:20	100:18 101:10
152:14 153:3,4	107:6 111:24	262:10,16,23	box 2:23 147:18	business 9:16
153:17,20	113:7 116:12	263:10 264:14	brad 8:5 23:12	busted 131:23
154:1,16	117:2 119:10	264:20 265:1	bradford 2:4	
156:12 164:11	120:7 122:20	266:19 267:11	brain 131:19	C
164:21,24	124:3 127:14	267:24 270:13	brand 55:3 59:7	c 2:1,3 3:1,17
165:10 166:17	130:19 132:22	270:16 271:9	90:8	65:13 66:23
167:9 182:14	133:12 134:12	272:1,10,21	break 12:19,20	67:5 77:23
182:15 198:19	134:22 135:12	273:2,18 274:1	59:11,14,16,20	136:6
198:22,25	135:20,23	275:4 276:15	106:23 107:2,5	c12 179:14
199:2,3 208:8	136:21 139:5	276:21 277:6	145:25 146:4,6	calculate 70:14
238:15 247:2	139:24 140:6	277:11 278:1	190:16,20	70:15 71:3
273:13,16	140:15 142:7	278:20 279:12	233:8,11,15	77:19 78:16,20
274:24 275:25	142:13,20	280:3 282:5	251:16 310:11	79:8,10 250:10
276:2,3 277:3	144:11 145:24	283:19 285:15	breaks 294:10	256:16
boilers 103:13	146:7 147:4	286:25 287:12	294:18	calculated 62:16
134:15 142:3	148:20 149:8	287:17 288:3,8	briefly 19:12	84:18 105:11
bonebrake 2:12	150:6,16	288:19 289:21	21:15 89:6	105:20 218:19
4:4,6 7:18,18	159:24 162:17	290:7,20,24	108:16 205:17	218:25 219:11
8:9,16,23 9:2	173:10,19	291:3,6,21	210:10 255:15	220:5 232:18
10:5,8 19:22	175:22,24	292:14,21	bright 286:7	calculating 232:4
20:1 23:17,21	177:2,4 181:4	293:1,3,6,10	bring 17:1 58:22	285:22
23:24 29:6	181:18 183:6	293:20 294:7	171:21 189:2	calculation 84:4
33:14,17,21	183:23 189:17	294:20,25	bringing 16:4	84:10 85:13
36:5,6 47:18	190:9,16 191:1	295:12 296:1	brings 9:4 17:23	205:1 220:10
48:19,23 56:9	193:3 195:6,14	296:11 297:25	24:24	227:12 289:5
57:10 59:10,17	196:14 199:1,7	300:18 301:7	broad 103:10	calculations
60:13 61:9	199:16 201:9	305:16,18	broader 91:4	70:22 118:3,9
65:21 66:7	201:24 202:6	307:1 310:8,14	broadly 262:9	118:11 126:18
67:10,20 68:6	202:21 203:4	311:21,24	brought 9:4	127:1,6 196:7
69:10,18 70:3	205:6,15	312:3	31:20 194:16	200:1 204:15
70:17 71:16	206:10,23	bonebrakes	201:11 253:9	213:7 215:25
72:9 73:19 74:5	209:10,23	288:13	253:16 292:16	216:3 219:3
74:11 76:4 78:2	223:19 233:7	boston 300:20	budget 15:22,23	223:7,8,15
78:11 79:21	233:14 234:10	bottleneck 75:8	budgets 15:6	250:19
80:16 81:2 82:7	238:1 240:1	75:12,19	30:3	caliber 142:4
83:5,21 85:14	246:4 249:20	bottom 124:13	building 15:16	call 16:1 23:15
87:3 88:1,18,24	251:11,19	136:8 158:25	bullet 105:8,22	32:12 40:5 44:1
89:3 95:14,21	252:7 253:15	177:6 178:22	106:10,15	57:19 83:2
96:13 97:7,18	255:17 256:11	219:23 254:9	bunch 183:12	118:6 150:10

r				Page 321
185:18 266:7	caps 236:20	160:15 309:23	chance 16:21	309:13,20
called 30:19 62:8	care 97:5 284:4	caused 96:23	89:4 103:25	changed 17:15
109:2	careful 266:25	97:20 117:6	107:12,15	45:12,25 49:25
calls 30:1 40:3,8	case 30:23 39:8	207:24 208:20	120:13 121:13	63:20 135:5
40:14,16 42:5,7	39:8 54:25,25	309:16	127:20,23	137:14,25
80:24 82:2	55:23,24 62:12	causes 72:20	140:20 147:9	171:7
103:6 106:5.5	62:20,24 63:1	84:22 96:22	162:20 184:9	changes 37:12
192:24 195:7	74:14,16,16,17	causing 124:7	196:21 210:4,6	50:2,3 58:20
202:17 203:2	76:3,3,20 90:4	cavanaugh 18:14	223:22,24	59:5 61:11,13
206:19 276:15	90:5,11,18	31:25 191:12	234:14 240:7	61:16,18 62:1,3
278:1 291:16	99:17,17 101:9	215:7	240:13 246:8	63:1,3,8 69:21
292:12 306:22	102:14,24	cavanaughs	change 11:11	70:8 73:14,22
306:22	103:8,10,10	225:7	65:11 67:12,12	75:18 78:25
calm 293:8,10	108:4 119:21	caveat 54:4	68:16,16,20,25	138:18 139:17
cant 45:21 61:13	119:23 121:10	cc 118:13,14	70:9 71:22,23	190:2 192:4
63:7 113:24	122:24 126:25	119:13,18,23	72:4,20,21,25	204:21 225:2
117:12 137:17	157:6 161:25	ccr 1:21 3:10 7:4	72:25 73:1,8,9	278:5 305:2
149:7 158:14	172:16 179:21	314:8,22	74:7,7,8,25	308:22
160:17 161:13	180:12 193:18	ccs 119:12	75:1,16,20,20	changing 63:16
166:21 180:4	201:21,21	certain 1:21 24:3	75:21 76:8	130:11,16
188:22 194:14	202:5,9,20,23	40:5 42:13 57:5	79:25 80:18	characterization
204:4 206:9	207:3 209:14	70:21 175:9	81:18,21,21	50:6 290:24
208:16 222:4	227:5 230:18	192:10 195:13	82:4,23 83:14	characterize
290:6,19	242:25 244:2,2	216:25 220:3	83:20 84:2,15	29:18,20
capability 278:15	252:2 265:25	237:10 261:22	84:22 85:6	258:18 260:16
278:22	265:25 268:13	269:15 289:4	86:22 87:16	261:14
capable 220:11	268:16 278:4,4	302:11	96:22 100:1	charge 54:2
232:9 288:18	294:24 297:16	certainly 295:10	101:6,10 102:8	128:16,21
capacity 69:13	297:19 302:3	certainty 306:1	102:9 103:4	283:23 311:6
69:19,23 70:6	308:18	certificate 313:1	105:16,25	chart 176:10
75:1,20 82:20	cases 39:4 118:9	313:16 314:1	126:7 130:13	281:24
82:24 103:4	149:21 171:22	certified 3:9 7:4	130:18 134:16	cheat 31:20
105:12,21	189:4 190:2	314:7,8	138:3 139:11	check 104:25
125:13 126:5,7	308:19	certify 313:3,13	149:6 168:17	251:12
126:8 180:22	casing 96:1	314:9	171:3,20 172:1	checks 18:6
197:19 227:9	236:8	cfr 34:1 192:10	200:21 203:10	45:22
232:6 235:23	categories 76:9	192:18 200:17	224:21 234:3	cheever 41:12
289:12 306:10	76:10	206:4,12	260:7,10 268:5	chemical 146:16
306:16 309:7	category 90:14	220:15 232:3	271:23,24	chen 3:3,7 8:7,7
309:17	cause 1:22 37:7	250:6 270:23	273:16 275:3,7	chicago 2:16
capital 66:16	67:14 68:25	chai 235:12,17	276:13,17	chief 17:5,20
77:23 97:16	71:24 72:13	challenging	277:22,24,24	22:22 24:3,7,15
98:20	87:16 117:23	295:6	278:5,7 289:11	24:16 32:19,20
				Page 322
------------------------	--------------------------	------------------------	-----------------------	----------------------
32:21,24 40:17	214:8 234:20	close 56:2,6	201:22 208:14	295:3,10,17
41:4,6,7,9	234:25 236:3	114:4 244:3	244:2,4 279:3	company 26:21
93:15 112:6	236:10,21	closed 110:17	282:20 283:1	26:25 39:11
115:11 121:9	237:4,17	113:4	303:1 307:9	94:6 111:10,13
122:18 129:22	238:13,16,25	closer 55:17	comes 48:1,10	111:17 121:15
141:24 143:2	249:14 280:6	coal 131:23	53:21 54:7 90:1	176:8 207:22
151:22,25	civil 1:7 7:12	coalfired 26:9,19	90:10 237:7	239:19 251:1
163:12 178:14	claim 134:10	27:15 58:20,24	245:3 283:6	companys
197:16 212:14	claiming 172:16	125:4	coming 80:14	110:14,24
215:17 226:1	173:2	coash95:25	commence 56:15	127:9
235:7 241:3	claims 9:6 24:23	code 35:21	56:18 58:12	compare 231:9
247:13	25:2 26:3,6,11	colleague 251:13	66:25	306:6
chiefs 41:6	clarification 8:10	collect 53:24	commences	compared
choose 27:11	56:3 249:21	college 146:15	58:16	189:19 230:7
83:20,22	clarify 84:5	columbia 9:14	comment 174:10	231:15 251:8
174:10	174:23 175:3	112:23 151:3	179:7 214:9	comparing
chooses 22:10	279:6 294:5	152:15 153:5	commented	229:10,23
chose 44:5	clarifying 59:18	157:15 193:7	46:20	comparison
165:23 175:9	189:23	column 136:8	comments 47:5	182:17
220:2	clarity 49:4	217:19 218:2	215:24 222:13	compilation
chronology 18:9	classification	219:6,13	222:18,20,22	52:13 283:12
circle 23:4	30:19	220:12 227:18	222:23 233:21	compiled 252:25
circuit 193:24	clean 9:4 10:20	227:21,24	234:2,4	complaint 25:17
201:10 202:8	13:19,21,22,23	228:3 264:7	commission	25:19,19,24
202:14	14:1 28:10 38:9	310:25	313:25	268:13,16,18
circumstance	61:17 63:19	columns 217:12	committed	268:23
39:7 134:21	192:14 193:12	217:16	126:17	complaints 29:16
circumstances	252:9 258:7,13	com 2:18	common 11:5,21	complete 10:24
38:24 195:1,13	258:16,19,24	combination	12:15 75:17	10:25 11:12
citation 143:22	259:1,16 270:5	181:8	124:24 158:22	18:9 51:2,4
cite 192:15,16	clear 39:15	combined 224:24	203:11 245:9	54:8 55:17,24
271:1	114:15 167:21	combusted	293:17 295:2,2	55:25 114:1
citing 155:19	168:3 262:19	131:23	295:7 307:18	167:10
city 1:20 2:24	297:18	combusting	communicate	completed 44:5
6:13 7:16 9:17	cleave 121:11,14	199:4	55:16	178:22
44:7 142:4	124:17 126:25	combustion	communication	completeness
143:24 144:2	cleaves 121:19	224:25 288:25	118:4 119:5	18:6 48:12
163:6 164:13	click 114:3	come 28:3 37:23	186:24 187:6,7	complexity 312:5
197:4,5,6,6	client 293:4,5,13	39:21 42:15	222:6 241:23	compliance 14:3
198:13 199:14	294:25 295:1	46:2 54:10 55:9	250:17	15:21,25 58:2
199:19,23,24	clients 294:21	57:20 75:7	communications	58:17 205:4
200:4 204:12	clock 53:22	86:16 94:17	222:1 291:16	complicated
204:16,21	54:12	138:9 169:17	291:20 293:15	106:7 232:17

				Page 323
comply 58:8	161:18,21	confusion 261:5	203:15 212:2	69:5 72:1 74:21
99:11	165:14 168:11	conjecture	229:2 258:6,12	76:23 78:9 82:9
component	185:6 192:25	273:19 275:5	consistently	82:19,22 83:4
164:23 208:8	195:8 199:6	276:16 278:2	18:24	86:24 87:19
208:20,24	200:3 202:18	connecticut 3:12	consists 124:1	88:5 94:19,22
277:23	203:3 206:20	connection 9:3	130:10	95:2 98:21 99:2
compound 75:23	231:8 259:9	46:14 101:15	constant 69:23	100:19,22
85:10 87:22	262:11,23	120:14 121:24	constitute	101:18 102:8
compressors	263:10 266:20	124:5,25	117:20 125:25	104:15 105:2
140:4	267:12,24	163:19 166:15	169:8	105:10,19,24
comprise 92:1	271:9 272:1,10	192:22 208:8	constitutes	116:4,9 121:12
108:7 115:3	276:8 286:25	connectivity	143:10 169:15	121:22 123:1
120:14,22	289:21 290:7	302:2	constraint	123:11 128:15
127:24 128:4	conclusively	consecutive	125:17	129:9 130:2,5
141:10 150:22	80:10 208:3	206:17	construct 210:15	132:12,19,20
151:11 162:24	concrete 94:5	conservative	210:17 215:3	133:1,20
234:15 240:10	concur 91:9	168:8 169:1	constructing	136:15,16
246:12,21	160:5	170:7,9,23	60:19	137:2 139:3
comprised 12:4	concurred 114:2	205:8	construction	141:7 142:14
89:7 103:14	134:9 166:17	consider 36:21	4:22,25 14:10	143:15,17
140:25 165:1	200:4 204:13	70:25 71:10	14:12,17 16:20	152:13 153:21
196:24	concurrence	166:13 181:14	17:3,9,10,21	154:19 156:21
comprises 224:2	159:3	204:20 224:5	18:2,20,23,25	164:10 174:5
comprising 210:7	concurring 114:7	245:8 283:4	19:1 20:23	192:4,9 194:22
concept 35:5	159:18	287:16,19,24	24:15 30:7 31:9	198:1,12
69:21 70:5	concurs 165:9	considerable	32:9,19 33:3	200:11 213:13
78:25 86:22	condition 228:7	304:19	34:11 35:2,19	215:17 224:6
98:18,20	228:11,12	considerably	35:24 36:7	226:14 235:25
106:11 256:15	230:1,3	229:6	37:19 38:3,20	237:16 241:17
concern 47:3	conditions 58:7	consideration	41:7 43:10,22	247:3,25
concerning	71:20 224:11	181:9	44:3 46:15	262:17,20
179:21 183:11	228:10 289:11	considered 85:25	47:14 49:1,17	263:8,11,25
263:23 285:17	conference	100:2 135:4	49:18 51:9 52:7	264:11 280:17
288:9	23:15 30:1 40:4	153:18 166:9	52:10 53:2,20	281:4,6,22,25
concerns 29:14	177:9,12,19,20	167:22 168:4	56:15,18 58:3	282:10,15
conclude 123:11	conferred 294:17	182:4 186:13	58:13 59:4,8,20	283:7 284:11
concluded	configuration	208:7,11	59:24,25 60:1,6	304:21 305:23
249:24	86:8	210:21 226:14	60:7,16,22 61:2	307:5 309:6
concludes	confirm 59:23	242:6 255:12	61:5,11 62:4	310:22
311:25	84:14 201:6	considering	65:9,10,14,15	construed 262:8
concluding 243:3	202:24	116:24	65:17,23,25	262:9
conclusion	confiscate 33:17	consistent 12:21	66:9,10,12,18	consult 28:8
145:10 157:2	conformity 189:3	73:20 105:23	66:19,25 68:10	52:18

				Page 324
consultant 94:7	conversation	230:21 253:10	142:4,10,17	242:15 243:1,8
157:15	10:21 97:24	266:9	143:22 144:1,6	246:1 247:20
consultants	202:12 207:25	core 169:19	148:2 151:7,8	248:3,11,24,25
299:5	208:5,15 294:8	corner 254:24	152:17,22,23	249:3,4,7 251:2
consulted 24:2	295:14	264:4	153:22 159:5,9	251:10 252:11
consulting 28:8	conversations	correct 14:11,18	161:1,18,21	252:15,16
214:4	43:12 47:9	14:23,24 19:4	163:14 164:13	253:18 254:7
contact 92:22	86:16 119:3	20:15,17 22:5	164:14 166:20	254:17,22
93:5 115:14	169:11,12	23:20,23 26:7,8	174:22 177:6,7	256:7,24 257:5
118:19,21	189:7 196:8	27:23 31:10	178:9 179:12	258:4 259:25
212:17 235:12	203:24 204:4	32:7 33:6 34:2	180:7 184:14	260:8 261:20
contain 36:7,11	208:17 222:4	34:7,10,25	185:13 188:1	263:22 264:1
contained 19:17	262:13 295:11	35:18,25 36:2	194:3 197:18	266:1,3 269:13
20:18 179:10	converting	36:10 38:1	197:24 198:2,9	270:10,24
210:10 211:21	237:11	39:20 50:20,23	198:10,14,15	271:15,20
234:18 242:3	cooperative 89:9	51:11 52:4 53:2	198:17 199:20	272:18 273:14
250:17 279:9	115:1 116:19	53:4 56:17	199:23 200:11	274:20,25
containing 115:7	120:24 124:5	57:15,23,24	200:18,19,23	275:21 277:5
contains 10:11	126:22 274:19	58:10,16 60:3,8	206:11,15,16	279:18 280:7
91:21 126:10	coordinate 29:24	61:3,4 64:25	207:6 208:5,6	284:17 285:16
129:15 240:20	39:1	66:1,21 67:3	210:19,25	285:19 286:12
contamination	coordinated	68:21 69:1,14	211:1 212:7,15	288:16 289:1,5
139:13	40:17	73:5 74:12,22	212:18 215:8	289:6,17
contended 232:8	coordinating	75:22 76:19	215:11 216:20	290:19 296:25
contents 52:19	43:8	77:4,13,17,20	216:22 217:2	298:16 299:19
context 140:11	coordination	84:7,23 86:24	218:1 219:4	299:20,23
193:4	40:3,8,16 43:12	87:12,21 88:15	220:9,22 221:2	301:11,17
continued 5 :1 6:1	171:9 185:22	89:10 90:18,19	221:6,9,10,13	303:17 304:15
continuous 69:17	coordinator	91:16,23,24	221:14,18,19	306:20 309:18
105:12	40:19,20 41:11	92:9 93:13,14	221:23,24,25	310:1,6,7 311:2
contrary 267:7	41:18 42:7	94:20,22,23	222:10,11,12	correcting 267:9
control 9:24 13:9	147:25 148:5,7	95:4 96:5 99:14	223:13,16	corrections
13:13,14 24:8	coordinators	100:7,19,20,23	224:19 225:9	313:6
48:15 56:12	41:22	101:4,12,14,18	225:12,15,18	correctly 156:4
57:3,5,14,25	copies 20:8	102:10 106:3	226:10,11,15	220:24 261:9
63:18 67:14	38:11 119:12	110:15 111:10	227:3,18,19,22	308:3
87:10 96:12	119:19 301:13	115:10,16	228:20 229:7,8	correspond
104:4 109:19	copy 10:9 20:25	116:13,17	233:6 234:7	109:7,8 110:2
116:10 141:23	25:4 39:12,14	120:18 122:14	235:14 236:18	correspondence
165:9,14	60:15 91:14	134:16 137:15	236:19 237:18	30:5 92:5 97:22
191:15 192:15	114:18 119:15	138:15,24	237:19 239:22	117:10 119:12
193:13 225:2	119:17,21,24	139:15,19	240:23 241:4	240:17
controls 224:11	211:22 230:14	140:1 141:18	241:10 242:4	corrosion 123:24
	<u> </u>			

[Page 325
corrosive 96:3	8:17 36:3 77:25	214:3 247:21	180:4 197:17	295:14
cost 97:16	188:18,21,24	281:21	206:7 212:13	decision 112:15
111:18 112:1	192:22 193:6	curtit 112:12,12	258:2 269:12	161:8 186:6
153:6,8,10	195:4 202:20	cut 188:2	dated 51:25 86:1	193:6,24
158:7 167:9,15	202:23 295:8	cycle 224:25	89:8 91:14	201:11,14,16
169:24 182:4,4	312:2 314:8	244:4,7,11	192:2 197:12	201:17 202:2,8
182:7,8,9,10	cover 45:4	287:19	211:3 212:10	202:14 296:3
182:12,17,20	108:20 174:11	cyclone 95:3,10	216:15 275:22	decisions 20:14
182:21,24,25	178:21 210:13	96:23 97:10,12	279:17	52:10,15
183:7,17	211:11,17	97:20 100:17	dateoriented	188:18,21,24
242:24 250:10	215:13 240:20	101:6,7,10	109:10	declining 28:14
255:25	covered 170:16	cyclones 95:23	dates 213:23	decrease 278:11
couldnt 135:10	covers 75:25	103:13	dave 10:5	decreased 96:5
counsel 7:2,2	coworkers 216:4		david 2:13 7:21	deemed 138:18
13:1,4 252:1,7	create 131:13	D	48:20 60:11	default 111:6
294:16 314:14	267:22 275:25	d 2:6 4:1 153:20	135:20 247:18	defendant 1:10
314:17	created 76:24	dam 130:11	305:16	1:25 2:11 7:3
counsels 28:7	96:2	132:21	day 1:18 69:13	7:20,22 8:21
count 54:9	creation 14:4	dampers 96:12	70:6 71:11	deficiency
counterparts	122:10	dan 147:20,22	261:6 313:15	149:10
64:24	criteria 131:14	daniels 210:15	days 53:18 54:1	define 68:12
county 44:7 94:3	276:1 287:9,10	dash 288:9	54:5,18,21	190:15
313:23 314:4	287:14,16	data 55:8,8	55:11 56:2	defined 67:11,17
couple 15:5 17:1	crossexaminat	102:23	177:18,22	69:17 102:5
17:5,14 19:14	4:5 251:23	database 22:13	dc 2:7 3:14	168:6 189:12
21:12,17,19	crr 314:22	62:18 89:24,25	193:24	defining 67:4
22:11 53:5	crush 220:6	108:12,22,23	de 32:13 45:20	68:1
63:19 106:8	csr 35:22 100:6	108:25 109:5	88:5 217:15	definition 60:21
124:25 125:20	143:12 153:20	114:3,4 150:11	224:5,7,10,12	60:22,24 66:15
131:10 141:14	252:14	150:12 180:3	224:18,22	66:15,17 67:5
146:10 171:2	cumulative	245:18,19	225:11 263:5	67:25 68:4,7,11
177:18,22	310:25 311:3	252:23,24	263:15 264:12	69:8,22,23
179:4 195:23	curious 146:14	253:1 265:18	281:10 282:15	70:10 71:21
232:15 253:7	current 9:13,16	265:20 301:21	283:10 288:5	72:12 73:4,11
269:2 272:20	13:7,10 50:16	302:1	289:2	73:17 74:15
310:15	50:18 89:23	date 7:9 9:25	deal 106:12	77:7,8 83:3
course 12:11,16	96:10 137:5	22:19 49:19,24	december	86:18 87:14
12:19 36:15	145:18 232:6	51:14 63:7 64:1	150:24 151:2	100:12 156:2
291:23 292:10	289:15	86:9 93:24	151:12,14	167:21 168:3
292:23 293:15	currently 28:23	109:22 116:1	152:12 153:7	194:5,9,21
294:2,6,10	34:11 35:20	129:25 136:19	155:1 160:8	250:11 303:20
court 1:1,22 3:9	41:12 55:15	155:12 166:5	246:25	304:25 305:1,4
3:11 7:4,13	94:1,2 155:8,9	170:6 171:16	decide 199:12	definitions 36:1

				Page 326
156:1	55:24	depth 174:10	112:9 124:9,20	120:23 121:2,7
degree 146:15	deponent 313:1	deputy 112:3	172:23 176:7	121:16,24
degrees 146:18	313:11	derate 125:7,10	186:19,20	123:5,14 128:5
delegated 31:22	deposition 1:12	125:12	187:13 189:15	129:1,6,21
35:10,13	1:16 4:14 7:3	derates 96:23	190:15 193:23	130:4 131:8
delegation 35:6	7:10 8:10 10:10	97:9,21 117:6	207:14 222:4	133:5,11 134:5
demand 230:20	10:11,19 12:12	124:7 207:11	236:6 268:7	141:8,12 142:2
230:22 231:5	12:20 13:2,5	207:24	297:17 302:25	142:10 144:1
231:22,24	19:5,15,18,20	describe 19:7	303:2	144:17 145:7
232:2,8 288:14	20:20 23:10	53:18 105:13	detailed 20:9	145:15 151:12
289:3,15,18,22	24:1 25:25 29:4	106:11 123:25	42:12 45:24	151:20,22
289:25 290:10	36:15 50:16	135:13 177:8	188:24 189:23	152:12 153:2
290:12 297:1	88:20 96:16	258:25	205:1 223:15	153:25 154:11
297:12,21,22	103:20 107:17	described 106:19	detailing 111:22	154:14,16,25
demonstrate	111:14 115:4	110:7,14 111:9	292:6	156:5,17
201:3 250:3	117:4 120:15	134:8 142:16	details 94:24	158:18 160:12
densepacked	123:17 125:1	152:19 218:20	119:5	160:23 161:3
236:11,20,22	127:16.25	243:7 256:5	deterioration 9:6	162:10,11
236:25 237:5,6	131:2 140:16	284:19 309:10	12:5,9 220:1	163:19 164:8
237:11	141:1 147:6	describes 65:9	determin 45:19	164:18 165:23
department 2:5	150:18,22	describing	determination	166:16 168:11
8:1,3,11 9:20	156:11 162:19	105:20 111:17	5:15,17,21,23	168:17,23
10:12,14 11:25	162:23 164:16	description	6:3,7,15 16:11	169:4,5 170:2,4
13:8,17 19:11	173:12 184:10	78:10 95:16	18:25 32:16,17	170:14,17
19:16 23:12	196:16,25	96:2 105:14,15	39:10,13,24,25	171:1,8 172:19
31:22 164:9	206:24 207:9	106:18 117:10	40:2 42:25 45:8	176:9,13
203:14 225:6	209:25 210:8	132:20 135:15	45:11,19 57:3	181:25 184:20
226:4 246:23	214:12,17	214:15 225:1	57:17,18,20	184:25 185:5,9
259:4	223:21,25	237:12 248:2,5	62:14 70:24	185:11,16,20
departments	234:12,15,19	design 75:1,9,10	71:10 72:18	185:25 186:2,9
9:23	236:3 240:3,11	78:15 105:11	73:21 77:19	186:13,16
depend 39:9	240:14 246:6	105:21 106:14	90:12,22 91:4,9	187:9,12
54:24 80:11	246:10 253:16	130:13,14,18	91:23 92:7,12	188:15 189:3
dependence	253:17 271:12	276:25 277:14	94:15,18 95:1,7	195:11 197:7
287:6	291:23 292:10	277:20,23	98:5 99:1	197:23 199:15
dependent 46:10	291:25 292:10	278:6	100:15,17,24	199:22 200:7
56:11 164:12	292:10,23	designated 8:12	100:13,17,24	202:1,5 204:7
depending 30:14	294:10,19	13:18	102.13 103.9	207:10 208:12
45:17 257:24	294.10,19	desk 161:23	110:13 111:5	207.10 208.12 208:21,23
274:5 280:16	311:25 314:9	detail 78:14 97:3	113:3,16,20	208.21,23
depends 32:20	314:11,15	106:21 108:12	113.3,10,20	209.17 212.0
36:22 37:3 39:7	depositions	108:19 110:3,9	114:25 110:1	234:24 235:16
40:18,20 42:6	294:18 295:22	110:17,25	119:1,7 120:2	236:4,5 237:15
				/ 11 (4) / 7 / 1)

				Page 327
237:24 240:21	208:9,16,25	142:14 143:9	228:15,15	211:6 230:16
242:18 244:20	217:1 235:10	144:3 145:2,11	249:13 265:20	230:19 294:12
244:21,25	241:6 243:14	154:4 157:7	283:8 301:24	296:2,5 309:2
245:24 246:24	244:23 247:16	160:7,9,14	differentiation	311:15
247:1 249:6,19	265:6 267:1	164:9 168:8	30:10	discussions
250:22 254:5	268:2 280:19	198:11 223:1	differently	23:18 24:4
254:21 255:11	280:20 281:5,9	238:22 263:2	170:16,18	202:11 294:17
266:8 273:7,17	282:14 283:9	determining 17:8	difficult 106:13	dispersion 48:13
275:3,16	283:16,21	47:4 68:1 102:7	114:7	district 1:1,2,22
276:13 282:1	284:2,5 299:1,1	138:22 143:23	direct 4:4 8:22	1:23 7:13,13
286:8 296:13	299:6 300:1	153:24 159:11	directing 73:8	193:6
298:22,24	302:10 303:1,3	189:19 220:6	88:13	divide 30:11
299:11 300:9	311:16	255:5,12	direction 72:8	division 1:3,23
300:23 302:22	determine 27:13	267:18 275:11	314:13	7:14
303:24	37:17 65:23	305:23 307:11	directly 21:2	dnr 35:3 90:14
determinations	66:11 68:8,17	detroit 179:21,24	24:11 28:3	112:10 128:2
14:16,20 17:12	68:19,24 72:2,3	180:3,12	director 13:11	141:8 163:3,19
31:3,6 35:3	78:5,12 86:23	183:11 201:12	14:25 16:14	197:4 210:14
39:5 42:19	87:15,19,24	201:17,21,23	18:13,14 24:10	252:17,21
44:20 45:3	88:14 90:10	202:1,8 256:22	31:22,22,23,24	256:9 258:1,5
46:12 73:14	105:9,16	279:9,20	32:6,7,12	258:11 261:18
92:14 93:19	110:23 111:1	302:19	104:20 112:3	267:7,16,18
96:15 123:1	126:13 132:2	devoted 281:18	191:14 215:6	274:16 279:13
128:11,21,23	133:15 154:6	didnt 17:1 32:3	215:10,12	280:13 287:10
130:1 133:23	154:21 157:5	58:22 86:1,2	225:6	document 20:9
134:14,20	161:5,7 162:3	97:2 111:3	directors 31:24	20:23 25:4,6,23
135:4 143:5	166:9 176:9	146:13 150:4	104:18	33:7 41:25 49:5
146:23,24	181:21 182:1	249:11,18	disagreed 259:5	49:7,11,13,15
150:3,7 152:1	199:13 204:7	281:7 306:2	discuss 30:3 40:5	49:25 50:1,5,21
155:11 162:12	209:13 226:17	307:7,13	186:1	51:23 52:5 53:7
163:16 166:2	228:14 229:9	difference 35:9	discussed 101:15	65:18 66:3 67:7
168:21,24	229:22 243:10	87:8 243:19	148:1 161:2	69:6 77:22 78:6
170:5,6,7,20	245:8 247:3	different 14:2	174:16 177:9	83:2,4,16 86:7
170:22 171:4,9	249:16 251:4	15:2 16:21 19:9	177:12	86:15 88:13,23
171:20 174:18	263:3,14 272:8	21:4,21 27:13	discussing	89:19,21 92:17
174:21 176:3	272:13 277:19	30:18 42:15	191:21	93:12 95:18
180:7,15	287:11 302:22	47:6 51:21	discussion 42:9	96:6,25 97:11
183:13 184:19	304:21 307:5	55:10 89:24	42:12 43:2	98:11 103:20
186:18 188:8	308:9 311:12	99:10 111:23	59:19 105:24	103:21 104:2,6
189:25,25	determined	137:6 144:19	118:24 124:8	104:13,21
190:12 195:19	57:22 76:17,23	149:1 150:11	146:11 188:6,9	106:7 109:13
195:24 197:20	87:6 102:21	154:11 166:24	188:13 189:1	111:21 112:5
201:19 206:8	113:1 117:22	169:3 205:22	202:7 205:12	114:1 116:7

				Page 328
123:19 132:16	163:1 164:16	117:9 118:10	178:7 215:22	108:23,25
138:25 139:20	166:12,14	124:22 133:8	244:19	109:4 114:21
142:5 144:7	167:2 179:22	134:7,19	drafter93:5,8	119:24 135:19
147:10,12	180:12,17	135:16 136:19	247:18	136:3 144:12
148:16 150:10	234:23 240:21	137:4 145:25	drafting 86:5	155:15 161:10
156:16,19	245:19 246:17	147:24 148:6	draw135:17	170:3 175:2
157:1 158:15	246:20 252:24	149:4 160:18	drawing 145:10	177:13 184:20
159:23 173:6	253:1,8 254:15	160:18 169:11	drive 21:18,24	184:25 185:5
173:15 180:14	265:12 291:14	170:10 171:18	22:3,4,6,8,10	185:11,16
180:14,25	292:7,9,11	174:24 175:10	22:15 301:19	189:25 191:21
184:1,3 194:10	301:9,13,20,20	179:4 180:13	302:4,8	205:17,20
194:12 209:25	301:23 302:3	181:1,2 183:20	dte 186:22	249:5,15
216:15 218:12	302:11	186:7 190:13	due 30:2 45:10	256:23 266:7
224:2 249:5	doesnt 53:25	194:16 199:11	86:1 168:9	287:18 301:18
255:2,4,18	55:14 167:1	203:1,8,9	180:21 231:4	302:14,18
256:8,12 264:8	193:22 266:11	204:17 206:7	278:15 280:10	early 109:4
302:7 305:25	311:8	209:18 213:19	duggan 2:21,25	easier 228:10
306:2 311:11	dogwood 224:4	213:23 214:5	7:24,24 13:6	308:5
documentation	224:14 225:11	215:2 218:10	23:11 33:13	easiest 15:10
56:5 117:25	227:7 228:1,13	222:22 228:21	312:4	124:14 228:5
165:16 230:19	231:2 232:1	244:15 253:9	duly 314:11	253:14
documented	288:6,25 289:7	266:6 268:8	durability 116:25	east 9:17
208:1	289:14 296:13	280:15 281:24	duties 14:9,15,19	eastern 1:2,3,23
documents 19:11	doing 46:15 73:1	283:22,25	14:25 15:20	1:23 7:13,14
19:17,20 20:3	97:17 134:8	284:4 285:5	16:6 18:23	easy 134:5,7
20:11,18,22	154:18 189:10	292:19 293:25	30:16 41:18,22	economic 242:24
21:12,20 22:11	189:12 266:21	294:7 295:8	85:21	243:1,4,9,20
22:12 25:15	281:2 287:23	296:1 301:14	duty 16:10 17:8	244:9,22
40:1 44:25	dollars 111:19	302:6	17:11 298:15	245:24 286:10
50:10,11 51:21	112:2	door 283:6		287:6
62:18,25 89:9	dont 8:13 11:6	draft 38:14,16,17	E	economically
89:13 91:25	19:22 28:3,12	38:19 42:23	e 2:1,1 3:1,1 4:1	242:20
96:17 97:15	29:13 37:15	44:24 50:7	136:7,23 138:9	economizer
107:22 108:7	44:15 46:3	87:25 92:18	138:12 139:13	153:4 197:8
108:10,14	58:23,24 59:11	121:9 176:21	143:12,21	198:13,17
110:21 115:3	62:2 63:2,7	213:4 215:24	144:4,13,22	edison 179:21,25
120:1 126:16	64:4 73:2 75:21	216:7 233:22	145:5,9	180:3,12
131:1,6 141:3	76:8 77:7 80:25	241:8 266:9	earlier 15:5 30:6	183:11 201:12
145:22 150:11	84:1 85:12	306:1	50:12 73:23	201:17,21,23
150:21 151:10	86:13 93:24	drafted 86:2	76:13,17 77:10	202:2,8 256:22
151:10 152:25	96:8 97:23	93:10 129:23	85:24 101:15	279:9,20
158:13 159:16	104:23 106:12	134:10 152:5	103:9 105:24	302:19
160:2 162:6,23	109:4 111:23	174:13 176:23	106:19 108:21	edition 135:18

Case No. EF-2024-0021 Schedule CME-r8, Page 94 of 136

				Page 329
education 146:14	27:7 89:9 115:1	78:15,16,17,19	69:16 70:5,9,15	224:11 226:13
effect 28:23,24	116:19 120:24	78:20 79:1,14	70:19,25 71:18	226:25 227:1,5
31:18 61:20	124:4 125:4	79:24 80:1,4,12	71:24 72:13,20	227:6,8,11,17
80:15 139:12	126:22 195:2	80:18,19 81:15	72:23 73:1,5,7	227:20,24
139:15 192:23	195:16 208:10	81:19,22 84:6	73:10,15,18	228:2,13,14,22
193:20,22	273:4 274:19	84:13,22 85:1,3	74:4,25 75:3,13	229:1,2,5,6,11
267:23 275:3	electricgenera	85:13 101:7,17	75:15 77:3,20	229:11,14,15
277:24	58:21	102:8,10,18,22	78:5,10,13,16	229:23,24,25
effected 101:7	electricgenera	103:4 117:19	78:20,24 79:1,4	230:3,5,8 231:2
234:5 260:24	196:3	126:11,13,14	79:8,10,14,15	231:9,10,15,17
effecting 80:11	electricity	126:17 127:1	80:4,6,14,22	232:2,4,10,21
80:12	149:14 199:3	133:15 134:24	81:24 82:3,5,22	232:23 238:15
effective 225:11	electronic	134:24 138:14	83:9,12,14,20	238:25 239:3,8
233:19,23	114:17 128:19	138:19 139:9	83:25 84:2,8,10	239:9,13,19,20
efficiencies	elements 63:22	160:15 179:10	84:12,18 86:23	245:8 250:2,5
297:20	64:9 191:24	192:18 194:2	87:17,17,24	251:4,7,9 256:9
efficiency 131:3	192:10	195:2,15 196:4	101:14 102:1,5	256:16 257:9
149:15,17	eligible 264:19	199:18 200:5	102:15,17,18	260:11,13,20
198:22 225:3	eliminate 75:19	204:7,9,11,14	102:22 105:9	260:23,24
237:21	131:15 276:2	204:21,22	105:11,20	261:7,14,16
efficient 149:22	276:11,14	205:24 206:13	106:1,11,12,14	271:22 272:8
149:23 198:25	elm 9:17	207:3,5 209:3,4	117:18,23	274:6,9,23
199:2	email 42:1 97:15	209:12 213:7	118:2,6 125:24	276:1 280:10
efficiently 46:24	97:22 117:11	215:25 217:8	126:19,23	285:22 289:4
effort 171:7	124:12,17	218:7,17,19	131:14 132:3,9	289:19,25
298:18	148:8,14,15	219:11 226:17	139:13 140:9	290:5,6,13,16
eight 40:23 53:13	149:11 240:17	227:12 228:17	165:24 180:21	290:18,19
53:14,15 88:10	250:16	230:12 231:18	185:1 199:25	296:23 297:9
eighteen 68:4	emails 91:22	233:4 251:1	200:21,25	297:10,15,20
eiq 218:3,3,6,18	95:13 102:25	260:24 283:25	201:4,5,7,15	298:1 305:2,5
either 11:11	117:9 119:2,4	289:25 303:11	202:2,15	306:6,7 307:10
20:19 22:13	123:22 246:17	304:20 305:21	203:15,16,19	307:12,13,23
32:19 57:14	emily 225:14,21	305:22 306:7	203:20 204:1	308:1,7,8
75:1 78:19 79:6	emission 15:15	306:11,19	204:13 205:3,9	emit 68:5 69:11
85:21 96:20	15:20 37:7	307:4 308:13	209:7,8,18,20	71:9,20 72:4
108:17 123:16	56:25 57:4,6,14	308:16,19,23	217:20,20,23	74:9 75:21
134:23 138:23	57:14,15,18,19	308:23 309:9	218:3,12,16,17	81:22 100:1
139:10,11,12	57:20,21 63:6	309:13,18,21	218:19,21,22	101:2,6,11,17
180:11 185:18	64:3 70:21	309:23 310:1	218:24 219:5,9	101:21,22
266:12 267:9	72:20 73:12,15	emissions 62:16	219:14,17	102:10 106:2
elect 206:17	74:8 75:2,5,6	63:9 67:15,17	220:3,6,17,20	132:12,14,19
electric 5:3,11	75:15,19,20,21	67:25 68:12,18	221:1,3,16,16	132:24 133:1,5
5:13 26:10,20	76:10 77:15	68:25 69:12,12	221:21 223:1	133:16,21

				Page 330
135:6 138:24	66:8 68:8 85:21	177:12,19	177:14,15,17	63:11 157:10
139:12,18	98:4.8 112:18	environment	177:22 178:7	157:17 158:1
256:15 264:18	121:21 128:25	96:3	179:4,9,20	160:21 170:13
309:17,25	129:3,9 133:10	environmental	180:11,16	174:1 180:3
emits 36:21	133:13,15	8:8 11:22 25:9	183:10 185:22	187:15,20,20
135:6	134:1 136:24	121:21 129:9	185:25 186:11	188:2 194:21
emitted 67:15	197:22 213:12	213:12 225:16	186:21,24,25	209:17,19
emphasis 126:4	213:18,18	225:22 247:24	187:2,6,9,20	242:21 245:17
employed 87:13	216:2 225:16	275:17	188:7,15,24	245:22 258:3
112:22 129:13	225:19,22	epa 3:2,7 5:25	189:2,4,8,9,13	258:18 259:11
314:14,17	235:19,24	11:22,22 14:5	189:16 190:5,6	259:13,15
employee 147:23	247:24	21:14,19,21	190:8 191:23	264:10,18,23
314:16	engineering	22:14,17 27:20	192:3,8,16,22	264:25 265:20
employees 4:20	112:23 146:17	28:10,16 34:9	193:14,25	269:21 301:21
295:23	152:3 156:11	34:17,20 38:4	194:5,8 201:20	302:1
employer 13:7	engineerings	38:12,14,21,25	201:20 202:8	equals 229:15
148:19	152:20 162:7	39:1,4,6,12,19	202:11 222:2,6	equate 149:22
encompass	engineers 30:6	39:23 40:1,3,6	222:9,13,23	equated 130:17
44:22	30:11,11,17,19	40:18 41:3,10	230:14,18,20	equation 229:14
encompasses	30:24 31:7	41:14 42:1,7,13	233:21 242:23	290:1,13
45:1 77:8	37:20 52:6 53:2	42:14 43:9,13	244:11,16,18	297:22
endoffile 46:1	105:1	43:14,21 44:5	245:19 252:17	equipment 57:3
ends 211:15	engines 140:3	44:19,23 45:6	252:20,23,25	67:14 71:20
energy 224:4,14	enhanced 237:2	45:12,24 46:13	253:2,2,6 254:5	72:25 75:8,11
288:6	237:8	46:17 47:3,8	254:16 258:23	75:11 78:18
enforce 200:11	ensure 37:23	49:11 62:13,20	259:4,10	79:5,9,11 82:19
enforceable	205:3 207:15	62:24 63:4	261:21 262:13	82:23,24
228:7	entered 28:19	86:12,15	263:21 266:2,5	117:12 135:5
enforcement	entire 31:6 75:3	118:18,20,25	266:7,11,17,24	158:11 182:18
14:3 15:4,21,25	77:9 80:12	119:6,25	267:2,4,8	207:17,20
16:4 27:4,10,13	97:14 134:24	147:23 148:15	269:10,15	208:13,14
27:15 28:11	177:23 182:14	148:18,23,25	270:7 271:5	220:3 229:17
29:1,11,16,20	182:18 183:3	150:2,6 159:16	286:3,6,8,14	289:15 308:7,7
30:4 149:1	217:20,23	160:3 162:6	286:21 300:14	309:7,9
171:22 175:15	entirely 306:1	166:12,19	300:19,23	eric 41:13
189:4 190:2	entities 86:6,11	167:2 168:6	301:3	erosion 123:24
201:11 266:18	86:12 119:19	169:4,7,14,17	epaapproved	erp 158:11
267:10	entitled 65:6,13	170:7,8,15,18	252:13	especially 29:24
enforcing 170:24	78:8 89:20	170:20,24	epas 22:13 27:10	40:3 113:25
266:24	136:7 220:1	171:9,11,19	29:1 33:25 38:6	114:11 170:5
engineer 16:25	293:23 294:13	172:9 173:24	38:7 39:12 40:1	214:17 215:17
17:8 30:20,20	entity 62:21	174:4,9,12,17	44:16 47:10	302:8
30:21,22 31:1,4	entrance 177:9	174:21 176:23	62:18 63:1,3,8	espoused 172:3

Case No. EF-2024-0021 Schedule CME-r8, Page 96 of 136

				Page 331
essentially 63:20	exception 144:23	262:21,25	183:21,25	58:20 59:5,9
189:14 229:10	exchange 198:18	263:8,12,14,14	190:21 191:2	65:11,16 69:4
232:22 273:8	198:21	263:25 264:12	196:12,16,18	72:4 75:18 77:3
279:19	exclude 37:15	264:19	196:21,24	79:14,24,25
estimate 280:16	220:2 231:2	exercise 311:8	205:17,18	81:15,19 82:23
estimated 127:1	289:4 297:9	exhibit 4:8,12,13	207:8 209:21	82:24 83:19
167:10,11,14	excluded 84:15	4:15,17,19,21	209:25 210:4,7	105:16 168:18
estimations	85:7 136:7,12	4:24 5:2,4,6,9	211:10,17	217:19 218:2
214:1	136:14 137:2,8	5:12,14,16,18	212:9 214:11	218:17 224:8
evaluated 249:2	137:22,25	5:20,22,24 6:1	216:15 223:17	224:21,24
evaluation 87:10	138:1,7 140:11	6:2,4,6,8,10,12	223:21,22	227:17,23
180:20,20	143:11,15	6:14,16,18 7:7	225:5 233:18	228:16,19
181:6 182:7,8	144:3,13,22,23	10:3,4 19:8,23	233:23 234:8	231:2 236:7,22
evening 251:25	145:1,4 153:19	19:23,24 20:9	234:12,15,19	237:1,4,8
event 85:17	153:21 289:20	33:11,15,16	234:24 236:1	289:23 308:23
267:6	290:6,11,19	48:20,22,24	239:23 240:3,7	308:23 309:12
evidence 189:6	296:24 298:4	60:10,12,15	240:10,19	309:13,21
evolve 149:6	302:23	61:19 76:13	242:3 246:2,6,8	exists 295:7
168:22	exclusion 138:13	85:22 88:17,20	246:12,21	exit 177:19
evolved 128:18	144:21 145:9,9	88:25 89:5,7,11	249:12 253:9	expanded 189:19
171:6,9 190:1	154:2,17	89:19 91:13,21	253:23,24	189:23
exact 93:24	192:14 193:13	92:1 103:17,20	254:18 255:9	expanding
136:19 171:16	230:20 231:2	107:3,7,8,13	255:10,10	214:18,25
209:18	231:22 232:2,8	107:16,23	256:5,19,19	expansion 220:4
exactly 64:11	288:15,18	108:8,19 110:4	257:11 263:17	expect 43:5
124:21 141:25	289:3,19,20	110:10 113:5,8	269:4 272:25	52:18
171:18 306:3	297:22	113:10,13,15	273:3 274:11	expectation 45:5
examination 4:4	exclusions	114:23,24	274:12,13,22	121:17
4:6 8:22 291:5	136:22	115:4,6 120:5,9	275:14,15	expectations
examinations 4:3	excuse 83:7	120:10,14,22	276:20,20	169:19
examined 1:17	211:2 217:15	121:1 127:12	277:8 278:10	expected 24:5
8:20 313:3	232:20	127:16,21,24	279:3,5,10,13	68:2,9 72:18
example 40:19	executed 313:16	128:4 135:20	279:23 284:8,9	74:8 83:11
45:13 55:2,3	exempt 262:21	135:22,24,25	285:9,13,14	84:12,13 98:2
56:3 74:17 81:4	264:12	136:1 140:13	288:3,5 296:17	118:7 133:16
91:1 135:10	exemption 91:10	140:17,21,25	300:7,22 301:9	138:23 139:14
139:25 182:14	145:4,13 154:7	141:11,15	305:16,20,20	139:18 140:8
245:5 303:6	154:8 155:5,20	147:2,6 150:14	310:17,19,19	160:15 185:1
308:5	180:7,20 182:7	150:18,22	exhibits 4:9 5:1	198:24 199:19
examples 138:17	263:3	151:11 162:15	292:16	200:5 204:8,15
138:20,22	exemptions	162:19,20,24	exist 57:7	237:20 238:6
139:14	35:24 137:9	163:25 173:8	existed 114:18	271:22 273:24
exceed 228:13	155:3 262:17	173:12,20,23	existing 37:12	276:14 277:22

				Page 332
292:8	220:7	186:12,15,17	262:22,22	45:15 91:25
expedite 11:20	extreme 123:23	187:3,10 188:7	263:8,12,21	175:9,16,17
experience		188:12,19,25	264:2 269:10	176:2,6,17
103:3 187:15	F	189:2 190:10	269:15,20	177:18,23
187:20 222:5	f 138:17 140:1	218:17,19	270:7,22	211:24 212:1
262:12	144:23	219:11 243:15	271:18 278:19	254:13 255:2
experiencing	facilities 46:11	244:10 249:6	280:20 283:25	257:4
97:9 207:11	170:19 181:17	249:17 255:12	286:14,17,19	filing 283:23
expertise 122:23	195:10 249:13	255:16,22,24	federally 34:23	final 39:3,14
131:19 132:1,7	281:9,12	257:23 279:20	304:7	44:24 120:1
161:22,24	285:18	302:18,22	fee 92:4 128:16	173:25 222:11
expires 313:25	facility 55:3	303:5	128:17 246:16	225:10 233:18
explain 76:25	62:13 70:9	facts 189:5	283:23,24	233:23 234:5
86:5,11 104:19	77:11,16 83:19	fair 47:11 54:17	feedback 40:2	266:9 269:21
106:8,14 124:1	90:3,6,7,8,8,9	85:15 229:21	46:13	270:8 289:9
167:1 180:22	90:9 94:8,11	273:7	feel 297:17 313:6	310:15
181:1 182:5	103:1 125:5	fairly 134:5	fees 53:25 54:2	finalize 286:21
219:16 227:4	181:16 214:18	262:14	128:8,21 198:1	finalized 157:19
228:9 236:25	218:20 224:14	fall 15:2 76:11	283:25,25	287:2
explained 219:18	232:5,22 244:4	falls 154:8	284:12 310:22	financially
270:1,5	245:5,5 289:23	157:17 158:1	310:25 311:3,7	314:18
explaining 86:14	290:10	familiar 24:23	311:9,11	find 77:2 87:7,7
110:18 283:4	facilitys 130:14	25:1 35:5 62:7	fiftyone 254:1	98:5 107:25
292:6	fact 11:18 21:20	63:10 106:9	fiftythree 300:19	285:11
explains 219:25	21:22 70:4,10	130:20 132:1	figure 76:21	finding 100:15
explanation	92:11 93:4	201:10 209:2	file 45:14,24	168:17 175:19
114:1 220:16	94:16 101:1	246:15 248:12	89:12 92:2,3,6	185:7
explicitly 64:2	133:4 179:25	far 40:15 167:17	94:16 97:14	fine 231:24
161:1 189:10	181:25 191:22	favorable 199:9	98:7 102:23	firm 7:19,21 9:2
expressly 7:6	194:15 208:7	february 109:19	114:20 117:24	169:2 214:4
extend 210:17	231:14 299:22	110:8,14 112:4	119:21,21	first 9:9 15:12
extensive 55:4	311:3	191:15 192:2,7	123:22 132:5	26:5 31:15
extensively	factor 180:20	194:4	135:9 160:19	44:13,14 48:8
85:24	182:7 188:11	federal 13:23	161:14 205:1	51:12 60:17
extent 15:22	273:20,24	14:1 34:18,19	208:2,4 211:17	66:5,23 68:17
29:4 52:17 87:9	274:4 275:6	35:11,14 41:25	211:20,22,23	68:19 77:2,2
122:17 158:6	factored 290:13	61:15 64:15,24	212:4 222:16	87:5 89:19
169:24 183:16	factors 78:19,20	170:14 179:9	223:5,7,8	90:20 93:8
234:3 255:25	158:5,16 162:7	193:2,19 200:3	233:25 234:2	98:14 100:9
257:24	165:19 166:25	224:13 252:9	240:20,20	105:8 108:18
extraction	169:19,21,23	258:13 259:2	301:24	109:7,15 110:3
214:18	170:1 181:6	259:11,13,15	filed 26:24 27:1	110:9 112:9
extrapolating	183:12,16,19	259:22 260:17	files 27:12 45:14	128:7 138:2

				Page 333
141:15 143:8	folks 10:6 63:10	137:25 138:1	261:25 262:10	199:4
148:8 153:7,11	follow24:18	151:12 154:12	264:14 266:19	full 9:7 69:13,23
157:9 158:25	209:17,19	154:25 156:6	267:11,25	70:6 82:15
165:8 179:19	242:21 252:17	156:16,19	270:16 271:10	154:3 205:23
192:1,13 193:5	258:16 263:3	157:2 180:11	272:11 278:20	273:11 286:2,5
199:18 211:16	292:20	186:15,21	282:5 287:1	287:4 289:9
217:14 225:5	followed 49:6,9	187:11 188:19	288:19 300:17	fully 106:18
236:11 238:2	following 24:17	189:18 190:10	301:6 306:21	232:9
238:13 240:19	58:2,13 180:10	227:17 240:21	four 43:25,25	function 43:17
241:13 242:13	180:10 186:3	242:13 244:24	44:4,10,15 45:6	funded 283:24
248:8 249:2	210:14,20	249:5 302:18	45:9 169:21,22	further 11:1 32:3
260:6 277:9	258:17 266:17	forward 32:21	187:8 188:10	82:14 96:2
281:11 300:6	267:9	154:21 157:7	188:11 244:6	192:16 193:14
304:12	follows 8:21	230:19 308:10	257:23	264:17 272:16
fiscal 15:6,22	67:12 117:17	forwarded	fourth 157:25	296:4 311:21
fit 74:1,14	252:21	189:13	227:18 241:12	311:23 314:16
135:14 231:21	followup 39:3,13	found 33:25	242:16 250:9	future 226:25
fits 76:8 135:9	54:11 146:10	35:20 36:1	286:2 310:19	227:5 228:13
five 15:16 93:25	185:12,15	50:24 101:9	foyer 299:2	229:1,11 250:5
169:22 183:19	252:5 259:21	119:1 144:4	frame 22:23	
200:21 204:2,2	272:19 291:3,7	154:15 178:1	53:20,23,24	G
206:13 213:24	forecasts 278:11	184:2 227:1	54:2,4 55:18	gas 225:3
239:16,20	foregoing 313:4	254:12 255:2	147:24 148:21	gasconade 314:4
257:23 302:22	314:9,10	257:4 263:9,13	162:1 171:17	general 2:22 5:5
303:5 305:17	forget 169:25	287:22 301:21	171:17 179:5	10:18 28:7
fiveyear 206:17	215:2	302:2	frames 53:9	47:25 74:14
fixed 182:25	forgive 292:24	foundation 47:17	fred 94:2,5 152:9	104:3 125:5
flipped 20:7	form 38:14 51:18	66:2 70:13	freeman 41:14	156:20 196:7
floor 116:6,21,24	57:15 61:20,22	71:14 72:6	frequency 158:7	generally 20:4
123:6,13,18,23	86:4 104:24	73:16 74:10	181:6,10,10,21	32:18 36:23
124:1,6 126:15	130:11 132:20	75:24 79:17	182:1 183:17	148:9 265:12
127:10	formal 31:18	80:23 82:2 83:1	255:25	288:17 300:15
flow 238:7	44:8 113:16,20	85:9 95:11	frequent 41:15	generals 7:25
flowchart 76:22	113:22,23	102:11 103:7	170:23	28:9
77:19 83:6 86:4	114:14,17	106:4 111:20	frequently 40:21	generates 94:16
86:10 106:8	180:6,14	116:22 119:8	40:22 171:1	199:3
flowcharts 76:24	185:24 266:6	134:17 135:7	216:4 301:24	generating 26:10
focus 37:12	formally 42:11	149:3 150:8	front 11:20 48:25	125:4,13 130:7
focused 75:5	format 42:9	198:23 199:5	81:7 93:3 116:5	130:21 131:4
82:11 242:25	forms 94:22	201:18 237:22	116:21 130:11	195:2,16
folder 22:9,9	forth 57:8 95:1	249:10 255:17	180:4 269:4	208:10 275:19
211:22	121:24 128:5	256:11 258:8	281:24	generator
folders 301:25	130:4 136:22	259:8 260:3,18	fuel 76:8 149:14	149:20 247:2

				Page 334
generators 29:2	55:18 56:5,8	184:21,25	244:18 245:13	69:15,25 70:12
134:15 225:4	goes 32:2 57:22	growth 230:20	245:20,22,23	71:14 72:6
geometry 237:2	71:23 138:14	230:22 231:5	252:18,21	73:16,25 74:10
getting 33:22	165:22 220:5	231:22,24	253:2,4,5,8	75:23 78:6
183:5 261:6	226:12 250:9	232:3,8 288:14	254:15 255:4	79:17 80:8,23
give 15:10 67:21	286:11 289:14	289:3,19,22	256:9 257:6	82:1 83:1,16
104:11 166:22	going 11:17 29:3	290:1,10,12	258:2 265:12	85:9 86:25 87:2
169:17 177:15	34:18 40:14	297:1,12,21,22	265:20 266:8	87:22 95:11,18
189:15 190:2	45:7 48:24 49:3	guess 19:8 29:12	286:3 300:14	96:6,25 97:11
given 31:21	50:13 55:9	64:11 65:4	301:3 306:2	98:11,23 99:8
77:16 78:17	62:13 64:1	70:23 156:25	guide 52:10,14	99:15 101:24
138:20 212:3,3	67:22 72:23,25	172:22 174:23		102:11 103:6
281:3 299:10	73:8,9 99:18	176:17 182:23	<u> </u>	106:4 111:20
312:5 313:5	103:19 107:7	183:7 216:19	hadnt 292:4	116:7,22 119:8
gives 78:9 297:1	131:18 137:20	229:20 253:24	hale 24:3 32:25	122:16 123:19
giving 126:5	138:9 146:12	286:20 289:10	41:5,9 104:11	130:15 132:15
170:17 188:9	154:3 158:24	302:7	115:14 178:14	133:7 134:6,17
glanced 210:9	162:1,12	guessing 171:16	212:10 215:14	135:7 136:17
glancing 97:22	169:24 173:3	guidance 20:24	hales 24:6	138:25 139:20
go 16:21 19:22	173:14,15	21:19 39:25	half 116:5,21	140:2 142:5,11
20:2,4 29:7	177:21 179:5	41:25 51:6	216:20	142:18 144:7
32:3 33:14 46:3	205:10 245:6	52:25 62:17,25	halfway 98:14	146:1 148:16
47:19 48:19	248:19 249:24	78:4 86:7	hand 10:5 21:3	149:3 150:4,8
59:12 65:13,24	257:11 265:9	104:14,16	30:11 107:9	159:22 173:3
66:5,23 68:18	269:24 285:8	105:2 119:25	147:5 272:13	173:14 175:21
71:21 76:12	288:9,14 291:8	157:11,14,18	handle 42:12	175:23 177:1
83:6 106:20,25	291:13,15	157:20 158:2,6	131:19 282:19	180:24 181:12
110:25 123:25	293:7,12	159:1,15,20	283:17,18	183:1 189:5,21
145:25 154:21	294:11 295:12	160:2,3,21	handled 18:6	192:24 195:5,7
167:1 176:7	good 8:24,25	162:6 166:12	31:6	198:23 199:5
177:3 190:14	47:13 48:17	166:14,20	handles 15:18,20	199:10 201:1
193:22 205:10	146:8 149:15	167:2 170:21	15:23	201:18 202:3
219:20 220:23	149:16,18,19	180:16,16	handwriting	202:17 203:2
220:25 227:14	251:25,25	183:15 185:23	109:24 164:3	204:24 206:6
236:25 245:14	280:17	186:16 187:4	handwritten	206:19 209:5
251:11,13	gotten 265:5	188:9 189:11	164:1	209:15 237:22
255:19 258:22	gov 2:9,25 3:7	189:24 196:6	hanson 2:3,9 4:5	249:10 251:22
259:18 260:3	governs 259:7	196:10 200:2	8:2,2 19:16	251:24 252:1
261:25 262:24	grants 283:25	201:20,20	23:20,23 29:3	253:18,21
265:16 292:24	green 59:6	209:17,20	33:12 47:17	255:20 256:17
301:25 305:20	greenfilled 59:7	216:4,6 242:21	55:22 57:9 61:7	258:10 259:3
308:9 310:8	grew62:24	242:23 244:11	65:18 66:2 67:7	259:12 260:5
goal 10:19 55:15	grounds 172:15	244:13,15,16	67:19 68:3 69:6	260:19 262:3

Case No. EF-2024-0021 Schedule CME-r8, Page 100 of 136

				Page 335
262:15 263:6	header 96:1	hesitate 37:14	306:15	234:9,12
263:16 264:16	264:6	hesitating 307:6	hundreds 266:10	239:24 240:3
264:22 267:5	heading 179:15	highest 220:6	hunton 179:20	246:3,6
267:15 268:9	217:8 269:20	239:15,20	183:11	identified 10:16
270:14,18	headquarters	hill 95:3,6 97:21	hypothetical	48:5 119:23
271:11 272:2	9:22	101:12,23	80:24 82:2	268:18 270:23
272:15 273:22	hear 150:4	116:6,16 117:6	103:7 106:5	271:7 279:20
274:3 275:6,8	heard 27:4	123:6,8,13,18	306:22	identifies 212:16
276:18 277:8	293:20 296:20	hines 129:4,5		identify 90:24
277:13,15	hearing 48:8	134:19	I	ii 121:22 213:18
278:8,24 282:7	156:4	hired 16:19,23	id 10:18 47:5,21	iii 213:19 225:22
282:17 283:13	heat 123:23	24:18	55:18 59:1	iiis 30:20,20,22
284:7 287:3,15	131:14,17,21	historically	60:10 90:6,8,9	31:1,4 213:16
288:1,22 290:2	131:22 198:18	30:21 31:1	99:21 114:12	iis 30:20 213:16
290:14,25	198:21 276:1	232:4	114:23 125:20	ill 11:4,7 12:13
291:2,11,12,15	heavily 86:8	histories 181:9	131:10 135:17	23:4 36:14 44:2
291:19,24	170:12	181:22	136:6 141:14	74:18 88:24
292:1,11,12,14	heckenkamp	history 31:23	148:19 177:25	120:8 147:5
292:19,24	41:8 163:20	104:25 181:14	179:13 205:16	173:17 183:24
293:2,3,5,7,16	197:22	181:15,16	205:21 217:4	183:25 214:9
294:9,15,22	heckenkamps	208:8	217:11 218:16	257:14 272:23
295:1,18,21	164:5	hold 54:5 202:15	251:11 252:22	287:5 295:13
296:10,12	hecker 1:19 7:15	203:15,18	253:7 259:18	295:15,20
297:11 298:8	held 24:9 59:14	229:1	260:13 281:6	309:2
299:25 300:17	107:2 146:4	holding 203:20	288:2	illinois 2:16
301:6,8 302:15	190:20 205:12	home 9:13	identification 7:7	im 7:19,24 8:3
302:19 303:10	233:11 251:16	honest 49:24	10:4 19:25	9:2 11:6,6
305:9 306:21	310:11	honestly 292:4	33:16 48:20,22	12:12 21:9
310:17 311:23	help 33:20 52:9	hope 219:18	48:25 60:12,15	25:18 27:1,2,3
happened 17:25	52:14 198:25	hour 59:11 69:13	88:17,20	27:14,23 28:13
63:2 170:10	219:21	70:6 128:16	103:17 107:3	29:3 36:3 43:14
hard 20:25 74:15	helpful 100:10	283:24	112:10 113:6,9	44:14,16 48:3
81:7 114:19	232:13	hours 1:18 78:21	120:6,9 127:13	51:14 55:13
175:12 243:25	helping 188:11	102:6 105:21	127:16 140:14	58:4 62:6,13
hardin 2:14 7:19	helps 51:3,3	106:14 128:25	140:17 147:3,6	70:1,22 71:4,17
7:22 9:2	214:14	134:1 197:25	150:15,18	72:7 74:19 75:5
hardware 225:2	henry 179:20	273:24 274:5	162:16,19	79:3 81:4,10
hasnt 306:9	180:11 183:11	278:15,23	173:9,12	98:10 107:7
hate 54:25	heres 117:10	284:15 311:12	183:22,25	109:1 133:3
havent 81:8	hes 24:17 119:14	housed 15:13,16	190:22 191:3	138:5,9 141:25
hayes 16:24,24	129:13,14	hundred 46:9	196:13,16	143:19 149:23
head 260:22	148:6,18 214:4	54:15 182:15	209:22 210:1	150:4,9 152:21
headache 297:1	247:24	281:8 306:10	223:18,21	154:3 155:2

Case No. EF-2024-0021 Schedule CME-r8, Page 101 of 136

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
158:14161:10117:15138:23175:6176:3117:23118:2,7188:12,14,16164:4165:6139:18140:9226:20256:1125:24126:11189:8,12,14,14166:4167:17308:15282:25309:6126:14127:10190:7246:18169:24171:6impacted 106:2included 17:13131:3,14132:3246:23,25171:14,16impacting 238:718:2463:17,18132:9133:15247:5249:13172:18173:3implement 13:25104:24107:16139:11160:16250:4,19173:15,1734:3,8,1835:14118:21137:22180:21,21257:20,21175:16,1964:23258:6,12174:7181:10185:2198:18276:21277:4188:21195:414:515:19includes 9:4199:18,25303:5303:5202:12,2234:2135:1145:18156:23200:5201:6independent203:23,23159:2174:8237:128:15204:2,8,11,13200:10201:25205:10206:25192:326:1282:1228:33204:15205:2indept 51:22213:17218:5258:2434:1235:138:4226:9,1355:2219:19223:20implemented42:1860:8230:12231:18index 4:1251230:15,1534:2382:12100:23153:25233:5238:6,
$164:4\ 165:6$ $139:18\ 140:9$ $226:20\ 256:1$ $125:24\ 126:11$ $189:8,12,14,14$ $166:4\ 167:17$ $308:15$ $282:25\ 309:6$ $126:14\ 127:10$ $190:7\ 246:18$ $169:24\ 171:6$ impacted 106:2included 17:13 $131:3,14\ 132:3$ $246:23,25$ $171:14,16$ impacting 238:7 $18:24\ 63:17,18$ $132:9\ 133:15$ $247:5\ 249:13$ $172:18\ 173:3$ implement $13:25$ $104:24\ 107:16$ $139:11\ 160:16$ $250:4,19$ $173:15,17$ $34:3,8,18\ 35:14$ $118:21\ 137:22$ $180:21,21$ $257:20,21$ $175:16,19$ $64:23\ 258:6,12$ $174:7\ 181:10$ $185:2\ 198:18$ $276:21\ 277:4$ $184:1\ 186:23$ implementation $250:15$ $198:21,22$ $279:13,21$ $188:21\ 195:4$ $14:5\ 15:19$ includes $9:4$ $199:18,25$ $303:5$ $202:12,22$ $34:21\ 35:11$ $45:18\ 156:23$ $200:5\ 201:6$ independent $203:23,23$ $159:2\ 174:8$ $237:1\ 281:5,23$ $204:2,8,11,13$ $200:10\ 201:25$ $205:10\ 206:25$ $192:3\ 226:1$ $282:12\ 283:3$ $204:15\ 205:3,9$ $289:15$ $209:6,8,11$ $252:9,10,14$ including $9:5$ $220:16\ 225:2$ indepth $51:22$ $213:17\ 218:5$ $258:24$ $34:12\ 35:1\ 38:4$ $226:9,13$ $55:2$ $219:19\ 223:20$ implemented $42:18\ 60:8$ $230:12\ 231:18$ index $4:12\ 5:1$ $230:15,15$ $34:23\ 82:12$ $100:23\ 153:25$ $233:5\ 238:6,14$ $6:1$ $231:12\ 232:11$ $174:5\ 277:1,14$ $159:16\ 181:10$
$166:4\ 167:17$ $308:15$ $282:25\ 309:6$ $126:14\ 127:10$ $190:7\ 246:18$ $169:24\ 171:6$ impacted $106:2$ included $17:13$ $131:3,14\ 132:3$ $246:23,25$ $171:14,16$ impacting $238:7$ $18:24\ 63:17,18$ $132:9\ 133:15$ $247:5\ 249:13$ $172:18\ 173:3$ implement $13:25$ $104:24\ 107:16$ $139:11\ 160:16$ $250:4,19$ $173:15,17$ $34:3,8,18\ 35:14$ $118:21\ 137:22$ $180:21,21$ $257:20,21$ $175:16,19$ $64:23\ 258:6,12$ $174:7\ 181:10$ $185:2\ 198:18$ $276:21\ 277:4$ $184:1\ 186:23$ implementation $250:15$ $198:21,22$ $279:13,21$ $188:21\ 195:4$ $14:5\ 15:19$ includes $9:4$ $199:18,25$ $303:5$ $202:12,22$ $34:21\ 35:11$ $45:18\ 156:23$ $200:5\ 20:53,9$ $289:15$ $205:10\ 206:25$ $192:3\ 226:1$ $282:12\ 283:3$ $204:15\ 205:3,9$ $289:15$ $209:6,8,11$ $252:9,10,14$ including $9:5$ $220:16\ 225:2$ indepth $51:22$ $213:17\ 218:5$ $258:24$ $34:12\ 35:1\ 38:4$ $226:9,13$ $55:2$ $219:19\ 223:20$ implemented $42:18\ 60:8$ $230:12\ 231:18$ index $4:12\ 5:1$ $230:15,15$ $34:23\ 82:12$ $100:23\ 153:25$ $233:5\ 238:6,14$ $6:1$ $231:12\ 232:11$ $174:5\ 277:1,14$ $159:16\ 181:10$ $238:15\ 239:8$ indicate $93:10$ $232:11,12$ $277:20$ $211:11\ 222:13$ $251:7\ 260:11$ $109:21\ 110:6$ $237:6\ 241:12$ implementing $231:3,4\ 282:1$
171:14,16impacting 238:718:24 $63:17,18$ 132:9 $133:15$ 247:5 $249:13$ 172:18 173:3implement 13:25104:24 107:16139:11 160:16250:4,19173:15,1734:3,8,18 $35:14$ 118:21 $137:22$ 180:21,21257:20,21175:16,1964:23 $258:6,12$ 174:7 $181:10$ 185:2 $198:18$ 276:21 $277:4$ 184:1 186:23implementation250:15198:21,22279:13,21188:21 195:414:5 $15:19$ includes $9:4$ 199:18,25303:5202:12,2234:21 $35:11$ 45:18 $156:23$ 200:5 $201:6$ independent203:23,23159:2 $174:8$ 237:1 $281:5,23$ 204:2,8,11,13200:10 $201:25$ 209:6,8,1125:9,10,14including $9:5$ 220:16 $225:2$ indepth $51:22$ 213:17 $218:5$ 258:2434:12 $35:1 \ 38:4$ 226:9,1355:2219:19 $223:20$ implemented42:18 $60:8$ 230:12 $231:18$ index $4:12 5:1$ 230:15,1534:23 $82:12$ 100:23 $153:25$ 233:5 $238:6,14$ 6:1231:12 $232:11$ 174:5 $277:1,14$ 159:16 $181:10$ 238:15 $239:8$ indicate $93:10$ 232:11,12277:20211:11 $222:13$ 251:7 $260:11$ 109:21 $110:6$ 237:6 $241:12$ implementing231:3,4 $282:1$ 273:13,16,23112:14 $115:17$ 245:10 $250:21$ 37:18 $38:9$ 282:23,24274:5,6,8,23116:3 $128:24$ 252:1 $253:24$ 43:10 $46:15,18$ inclusion $263:24$ 275:2,11,25132:13 $134:4$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $
172:18 173:3implement 13:25104:24 107:16139:11 160:16250:4,19173:15,1734:3,8,18 35:14118:21 137:22180:21,21257:20,21175:16,1964:23 258:6,12174:7 181:10185:2 198:18276:21 277:4184:1 186:23implementation250:15198:21,22279:13,21188:21 195:414:5 15:19includes 9:4199:18,25303:5202:12,2234:21 35:1145:18 156:23200:5 201:6independent203:23,23159:2 174:8237:1 281:5,23204:2,8,11,13200:10 201:25209:6,8,11252:9,10,14including 9:5220:16 225:2indepth 51:22213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
173:15,1734:3,8,18 35:14118:21 137:22180:21,21257:20,21175:16,1964:23 258:6,12174:7 181:10185:2 198:18276:21 277:4184:1 186:23implementation250:15198:21,22279:13,21188:21 195:414:5 15:19includes 9:4199:18,25303:5202:12,2234:21 35:1145:18 156:23200:5 201:6independent203:23,23159:2 174:8237:1 281:5,23204:2,8,11,13200:10 201:25205:10 206:25192:3 226:1282:12 283:3204:15 205:3,9289:15209:6,8,11252:9,10,14including 9:5220:16 225:2indepth 51:22213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1230:15,1534:23 82:12100:23 153:25233:5 238:6,146:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
175:16,1964:23 258:6,12174:7 181:10185:2 198:18276:21 277:4184:1 186:23implementation250:15198:21,22279:13,21188:21 195:414:5 15:19includes 9:4199:18,25303:5202:12,2234:21 35:1145:18 156:23200:5 201:6independent203:23,23159:2 174:8237:1 281:5,23204:2,8,11,13200:10 201:25205:10 206:25192:3 226:1282:12 283:3204:15 205:3,9289:15209:6,8,11252:9,10,14including 9:5220:16 225:2indepth 51:22213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1230:15,1534:23 82:12100:23 153:25233:5 238:6,146:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
184:1 186:23implementation250:15198:21,22279:13,21188:21 195:414:5 15:19includes 9:4199:18,25303:5202:12,2234:21 35:1145:18 156:23200:5 201:6independent203:23,23159:2 174:8237:1 281:5,23204:2,8,11,13200:10 201:25205:10 206:25192:3 226:1282:12 283:3204:15 205:3,9289:15209:6,8,11252:9,10,14including 9:5220:16 225:2indepth 51:22213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1230:15,1534:23 82:12100:23 153:25233:5 238:6,146:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:3,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
188:21 195:414:5 15:19includes 9:4199:18,25303:5202:12,2234:21 35:1145:18 156:23200:5 201:6independent203:23,23159:2 174:8237:1 281:5,23204:2,8,11,13200:10 201:25205:10 206:25192:3 226:1282:12 283:3204:15 205:3,9289:15209:6,8,11252:9,10,14including 9:5220:16 225:2indepth 51:22213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
202:12,2234:21 35:1145:18 156:23200:5 201:6independent203:23,23159:2 174:8237:1 281:5,23204:2,8,11,13200:10 201:25205:10 206:25192:3 226:1282:12 283:3204:15 205:3,9289:15209:6,8,11252:9,10,14including 9:5220:16 225:2indepth 51:22213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1230:15,1534:23 82:12100:23 153:25233:5 238:6,146:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
203:23,23159:2 174:8237:1 281:5,23204:2,8,11,13200:10 201:25205:10 206:25192:3 226:1282:12 283:3204:15 205:3,9289:15209:6,8,11252:9,10,14including 9:5220:16 225:2indepth 51:22213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1230:15,1534:23 82:12100:23 153:25233:5 238:6,146:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
205:10 206:25192:3 226:1282:12 283:3204:15 205:3,9289:15209:6,8,11252:9,10,14including 9:5220:16 225:2indepth 51:22213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1230:15,1534:23 82:12100:23 153:25233:5 238:6,146:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1230:15,1534:23 82:12100:23 153:25233:5 238:6,146:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
213:17 218:5258:2434:12 35:1 38:4226:9,1355:2219:19 223:20implemented42:18 60:8230:12 231:18index 4:12 5:1230:15,1534:23 82:12100:23 153:25233:5 238:6,146:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
230:15,1534:23 82:12100:23 153:25233:5 238:6,146:1231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
231:12 232:11174:5 277:1,14159:16 181:10238:15 239:8indicate 93:10232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
232:11,12277:20211:11 222:13251:7 260:11109:21 110:6237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
237:6 241:12implementing231:3,4 282:1273:13,16,23112:14 115:17245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
245:10 250:2137:18 38:9282:23,24274:5,6,8,23116:3 128:24252:1 253:2443:10 46:15,18inclusion 263:24275:2,11,25132:13 134:4
252:1 253:24 43:10 46:15,18 inclusion 263:24 275:2,11,25 132:13 134:4
255:10.23 47:14 252:18 incomplete 54:11 278:15 280:10 171:19 176:13
257:11 258:9 258:19 259:1 incorporate 289:24 302:10 208:4 254:12
259:22 261:6,8 implements 63:21 192:8 306:11,19 indicated 19:19
261:8 265:8 13:23 35:17 269:21 308:1 309:16 46:17 86:21
269:19 271:13252:12 272:6incorporated309:17,2492:21 115:14
277:6,8,8 278:9 implied 137:13 191:24 192:10 increased 125:24 137:11 147:18
282:7 283:3,3 important 168:23 incorrect 126:21 126:1 149:9 176:2 185:6
285:8,24 287:9 183:2 253:5 179:25 231:4 238:10 191:23 215:9
288:9 291:15 307:10,14,19 increase 37:7 273:21 274:23 228:1
292:13,20improper 294:1867:14 68:25297:20 309:25indicates 69:11
293:7,10,23,24 improve 237:21 71:24 72:13,23 increases 102:9 93:1,7 98:8
294:13 295:12 improvements 73:18 74:4 75:1 increasing 152:13 199:18
296:8,8 297:2,7 149:15,17 75:12 80:3 126:19 227:9 205:1 224:10
297:18 306:3,4 inaccurate 82:24 83:11 238:14 278:22 305:21
306:12,23311:1884:6,10,12,13independenceindicating 59:25
307:6,16include 14:12,1984:23 85:1,3163:3,7 164:1260:1 113:18
308:10,10,25 19:3 35:23 87:16 99:25 165:16 166:23 134:15 250:7
immediately 37:13 53:14 101:1,13,16,21 167:3,17 indication 49:6
206:13 54:5 77:15 102:15,17,18 184:13,20 49:10 76:22
impact 79:14 82:19 113:16 102:21 116:24 185:19,24 117:4 145:7

				Page 337
171:25 179:23	inhouse 42:22	installing 79:6	48:3 176:16	introductory
237:23 299:11	initial 9:11 16:18	instance 30:12	184:1 241:12	177:21
individual 87:7	18:5 25:3 54:18	39:9 43:3 113:2	314:18	inventory 15:20
92:1 119:12	55:6 116:14	139:17 151:23	interim 17:4	218:7
235:19,21	188:16 236:20	222:25 280:9	18:14 151:21	invitation 27:24
313:13,14	301:14	instances 34:19	270:20	invite 187:7
individuals	initially 63:18	38:17 39:18,21	internal 20:11	invited 27:20,22
235:15 282:8	initials 93:7,8,8	113:19,21	21:24 22:4,15	involve 87:9
industry 26:10	93:10,11	135:2	49:16 51:19	139:10 170:7
27:7,12,12,16	initiative 27:5,10	instruct 23:22	53:6 76:14	170:22
180:17 181:11	27:15,18 29:2	instructed 187:2	90:16 104:17	involved 17:14
181:17,22	29:11,17	187:3	110:20 217:5	27:2 37:13 47:8
196:9,10	initiatives 29:20	instructing	219:23 257:14	83:8 104:5
inference 145:17	30:4	292:13	311:11	112:14 152:3
155:14,18	inlet 96:1	instruction 128:8	internally 268:8	161:11 163:18
166:21	inner 236:7	293:21	interpret 51:1	170:12 171:11
inferred 154:18	inperson 23:16	instructions 4:8	64:22 111:2	179:16 191:8
154:20	40:25	10:19	137:18 170:13	212:20 215:15
inferring 154:24	input 131:14,17	insulation 182:14	170:15 171:7	215:16,18,20
155:2	131:21,22	intended 104:13	180:17 181:13	216:1,5,8
influenced	276:1	131:2 198:18	267:2 268:2	230:16,18
295:18	inquire 124:4	225:2 265:11	interpretation	involvement
influencing	295:9	267:22 270:1,5	41:24 47:10,10	92:10,12,15
292:18 294:2	inquired 39:2	intending 232:7	60:5 137:7,24	104:8 121:6,23
informal 42:8	97:8,19	266:16 267:8	138:4,12 145:2	129:20 151:19
43:2	inquiries 91:4	intent 264:11	145:18 155:7	163:21 235:15
information	121:14	267:13 303:4	172:2 241:22	involves 14:4
33:22 43:10	inquiry 90:21	intention 137:1,4	259:5,6 262:14	iowa 29:25
50:25 54:7,8	92:8 98:1 133:2	137:7,11,13,17	263:1 266:23	ipl 6:17 167:9,24
60:4 72:24	294:3	177:16 263:1	267:8 299:18	185:17 205:23
80:10 102:25	inserted 188:3	290:10	299:22	278:11,14
108:24 131:1,5	inspection 15:12	interactions	interpretations	ipls 207:3
133:9 143:9	install 57:5 78:18	47:12	47:6 149:6	irrelevant 69:22
153:6,8 160:19	installation 75:4	interconnected	160:18 169:3	70:10
165:15 167:8	77:3,5,8,12,14	242:20	268:5	isnt 73:8 292:19
167:24 190:4	77:15 80:13	interconnection	interpreted	299:10 306:20
200:21 208:19	105:12 139:10	243:1,4,4,10	170:18	issuance 16:11
208:24 213:14	217:23,24	243:20 244:10	interpreting	19:1 31:18 32:5
247:6 249:18	218:18 263:4	244:22 245:25	171:25 267:4	35:1,2 48:1
257:19,20	268:3	286:10	interviewing	53:20 55:7
287:20,21,22	installations	interest 293:18	177:23	56:14,19 58:3
292:13	166:11	295:2,2,7	introduction	151:1 211:5
informed 156:11	installed 58:1	interested 42:14	177:16	215:10 222:3

Page	338
1 age	550

				rage 556
issue 14:10	216:22 222:14	jeff 7:16 214:7	K	51:12 55:11
24:24 26:18	224:4 244:13	jefferson 1:20	kansas 3:5 29:25	59:3 62:2 63:2
33:4 38:16 39:2	244:17 245:7	2:24 9:17	kansas 5:5 29:25 karen 112:12	63:4,7,8 64:17
45:17 46:8,11	250:25 254:6	jenni 314:22		73:3 76:8 77:7
53:22,23 55:11	265:23,23	jennifer 1:20	keep 22:10 92:6 195:12 199:14	81:6,14 85:12
55:11,17 56:15	267:7 273:4	3:10 7:3 314:6	200:9 204:1	94:1 95:9 96:15
58:13 72:21	274:16 283:2	jim 18:13 31:25	200:9 204:1 205:4 212:1,4	97:8 99:5
93:18 105:25	288:6 299:8,11	31:25	250:5 257:24	101:20 102:20
113:20 115:25	300:23	job 156:13	291:8	103:13 104:25
123:1 125:16	issues 15:23 18:3	john 5:19 41:15	kendall 24:3	109:4 112:22
130:1 133:23	21:8,11 27:14	118:14,17	32:25 41:5,9	113:1 115:20
143:4 148:15	59:24 97:5	119:3,4,20	104:11 115:14	117:22 118:24
155:10 160:8	118:22 146:11	147:14,17	104:11 113:14	119:22 120:1
163:15 165:23	170:24 178:24	148:8,18	212:10,12	123:17 128:22
169:2 172:16	179:1 185:9,11	300:20	212:10,12 215:14,23	129:13 130:13
186:24 197:20	190:6 285:20	johnson 151:3	215:14,25 216:1,13	130:25 131:22
207:10 209:14	289:2 302:2	join 27:20,25	kept 42:10 92:1	134:7,19
216:20 217:24	311:14	28:14	211:24	136:14,19
224:14 226:18	issuing 17:9,11	joined 28:10	kind 20:11 50:4	137:1,4 148:4,6
233:16 235:9	185:6,15	joint 28:19	60:2 94:12 98:2	148:25 150:2
241:15 242:6	215:13	293:17,19	100:22 102:9	156:8 158:16
243:1,5 244:15	italicized 187:19	294:22	116:4 123:12	158:17 160:7
247:15 249:9	188:3	judge 293:23	130:6 131:25	160:18 164:3
256:14 266:10	item42:17,20	judgment 118:6	142:15 146:14	164:23 169:11
266:12,15	43:5 66:16	july 18:13 32:25	152:14 153:25	170:10 171:18
271:14 280:16	items 22:10 53:6	32:25 89:8	164:10 170:23	172:15 175:10
281:16 292:22	63:15 282:1	91:15 163:6,8,9	175:3,12	178:6,10
293:14 296:6	287:19	163:10 166:1,4	182:19 190:1	179:23 180:3
298:15 299:15	iteration 49:16	166:5 206:2,5	198:12 237:16	183:10 186:20
309:20	iterations 49:22	234:25	247:4	187:17 190:13
issued 25:7	50:1 89:24	jumped274:12	kinds 181:11	192:7,22 194:4
38:15,21 44:19	ive 21:2 40:15	june 142:1	kline 90:15 92:21	194:8,16
45:8,15 54:1,18	124:24 128:10	177:10 193:9,9	93:3,21 97:23	199:11 202:14
54:20 55:21	172:9 194:15	261:23 269:12	102:24 152:5	204:1,18 206:7
58:19,23 59:6,8	195:23 202:10	jung 235:13	klm 93:8	207:9 213:15
92:8 111:6	246:17 293:20	jurisdiction	knew 190:5	213:21,23
114:22,25	293:20,20	214:22	know 11:4,14,19	214:2,6,12
134:13 146:23		justice 2:5 8:3	12:13,20 25:12	215:20 216:6
173:24 174:13	<u> </u>	19:11,16 23:12	25:14 26:9,16	219:8 222:1
175:7 176:12	j 2:12	justification	26:18 27:17	228:21 230:16
179:3 184:20	james 191:12	118:10 166:24	28:3,5,12,15	236:21,21
186:6 196:9	197:8 198:4,14	192:17 193:14	42:2,17 43:13	244:16 245:16
211:25 216:17	215:7 225:7	200:7 238:17	44:2,11,16	252:1 253:9
			, , -	
L				

Case No. EF-2024-0021 Schedule CME-r8, Page 104 of 136

				Page 339
258:5,11	laid 63:15 207:5	272:1,10	142:17,21	237:24 238:3
263:18 268:10	lake 142:3	286:25 289:21	143:8,20 144:9	238:11,13,18
268:16,21	143:24 144:2	290:7 298:15	144:16 145:2,6	238:24 239:2,5
271:13 286:17	language 139:6	leibach 1:20 3:10	150:24 151:3	240:15,16,18
293:17 296:1	186:23 187:19	7:4 314:6,22	151:12,15,24	240:22,25,25
301:12 302:6	188:3 230:2	lenexa 3:5	152:5,13,20	241:2,9,13,19
knowing 137:20	238:12	length 55:6	153:7,12	242:13,17
156:15	large 183:4	298:11	154:12,15,19	243:7 246:18
knowledge 64:8	late 63:11 179:9	letter 5:3,7,13,19	155:1,13 156:6	246:18,22
111:8 112:6	191:23 216:15	6:5,17 39:11,14	157:10,21	247:9,19 248:2
119:9 134:10	304:7,10 307:3	59:24 60:1 89:8	158:17,24	249:2,8,9,15
134:20 153:8,9	lateness 261:6	90:2 91:14,17	159:17,19	250:9,22,24
156:7,11,13	law 7:14,19,21	92:5,11,13,16	160:5,8,11,25	255:12 256:22
158:21 161:11	9:2 179:9 304:9	92:17,18,20	161:15 162:7	257:6 258:3
161:12 167:16	304:13	93:6,9,10,16	163:2,3,5,6,10	265:14 266:9
168:10 179:22	lawful 8:20	94:25 95:1,13	165:4 166:6	266:10,22
248:6	lawsuit 7:20 9:3	95:15,24 96:19	168:2 179:20	267:3,14,17,22
kyra 1:12,16	24:24 25:17,20	96:21 97:4 98:1	179:24,25	267:22 268:22
7:10 8:19 9:9,9	25:25 26:24	98:15,15 99:1	180:1,2,3,11	269:25 270:4
152:20	27:1,20 28:15	100:6,14,16	183:10,15,18	273:3,7 274:14
	28:20 209:4,7	102:25 107:18	184:7,10,12,16	274:21 275:16
L	209:13,19	108:13,15,16	184:22 185:10	277:9 279:9,13
l 1:20 3:10 7:3	lawyers 23:25	109:16,21	185:12,15,18	279:16,19,20
9:12 314:6	lay 188:11	110:7,15,18	185:20,22	280:5 284:16
label 19:15	lcaap 143:9	111:10,13,16	186:3,12,21,22	285:17,20
labeled 49:1	lead 90:21	111:22 113:22	186:23,25	298:21 300:19
lack 47:17 66:2	110:16	113:24 114:14	187:5,11,14,20	302:17,19
70:12 71:14	leanne 31:25	114:17 115:1,8	187:25 188:2,3	303:6 311:5
72:6 73:16	leave 93:23	115:18 116:1,3	188:20 189:18	letters 20:8
74:10 75:23	295:20	117:8,8,14	190:11 191:3,6	32:16,18 33:5
79:17 80:23	led 42:7 242:2	118:1,14 119:1	191:9,11 192:1	39:16,22,23
82:2 83:1 85:9	245:24	119:7 120:16	192:2,11 193:4	45:8,15,19,20
95:11 102:11	left 60:17 214:6	120:17,23	193:22 197:3,5	46:4,7,10 59:21
103:7 106:4	227:18,24	121:3,18,20,25	197:6,11,17	59:25 91:8
111:20 116:22	228:3	122:4,7,9,14	198:11,17	92:14 116:23
119:8 134:17	lefthand 264:3	123:15,21	204:10,18	119:25 122:12
135:7 149:3	legal 192:24	124:21 125:20	205:23 207:14	174:24 175:7
150:8 198:23	195:7 202:17	127:3 128:1,2,5	210:13,13,14	175:10 241:6
199:5 201:18	203:2 206:19	129:6,15,23	211:2,11	254:5,21 256:6
237:22 249:10	259:8 262:10	130:1,5 131:9	212:10,13,16	257:21 265:2,9
300:17 301:6	262:23 263:10	131:12 132:25	215:13 234:20	265:11,23
306:21	266:19 267:11	133:20 141:3,5	234:25 235:3	266:2,5,11
ladder24:17	267:24 271:9	141:16 142:1,8	236:6,11	268:6,7 272:21

Case No. EF-2024-0021 Schedule CME-r8, Page 105 of 136

				Page 340
276:21 278:4	63:17 227:7,10	litigation 28:11	67:5 73:9,18	124:11 152:21
280:3,13,23	228:1,2,5,20	149:1 172:4	74:2,3,13 79:5	156:8 165:6
281:19 282:20	228:21 229:1	187:15,17,21	80:13 83:13,18	175:14,16,25
283:1 284:20	229:16,24	little 33:24 38:2	83:19,20,24	176:17 178:5
285:1,14 298:9	232:10,24	47:21 59:20	84:14 85:5	181:21 182:20
298:15 311:14	284:19	82:14 89:12	87:14,18 88:14	184:18 190:5
level 34:23	limitation 56:25	94:15 99:24	88:22 89:4	198:16 226:6
172:23 186:20	57:15,18,21	131:18 136:3	103:22,25	229:22 242:16
213:15 225:19	71:7	138:6 177:25	107:10,12	255:23 257:17
227:8 229:5,12	limited 75:9	189:23 205:16	113:11 118:2	269:9 285:24
230:4 231:10	114:10 172:8	220:24 247:18	127:18,20	305:14 308:25
232:19,24	228:11	259:19 265:5	139:6 140:17	looks 60:23
233:3 250:11	lina 90:14 92:21	268:6,7 279:4	140:20 143:17	101:25 109:18
296:22 297:9	93:3,21 97:23	291:8	147:7,9 150:19	178:5 211:23
297:10 298:1	102:24 152:5,6	live 214:7	157:21 162:20	236:7 238:11
levels 37:8 96:5	linas 97:15	living 50:4	173:5 176:8,11	246:15
202:16 217:15	line 12:21 59:19	lk 93:10	180:2 183:2,14	loring 2:13 7:21
224:12,13	115:7 121:3	llc 94:4	193:4 194:10	7:21 48:21
228:15,16	171:21 215:5	llp 1:19 2:14	195:20 196:18	135:22 305:17
264:19	286:7 296:9	load 248:12,16	202:19,23	lost 231:13
license 30:21	304:22	loaded 248:10	205:22 210:3,4	lot 42:12 49:25
225:22	lines 305:10	local 44:6	211:20 218:21	50:8 55:14 76:1
lieu 126:17	list 4:20 19:9	located 50:18	223:5,22,24	86:2 114:17
204:15	42:21 58:22	53:16	228:5,11 237:3	122:12 133:9,9
light 148:13	96:18 114:5	location 52:24	240:5 242:19	148:6 149:5
163:4 165:16	158:5 168:6,7,7	137:6 245:13	244:3,17 245:7	161:23 168:20
167:18 184:13	175:11,16,19	302:7	245:9,14,15	170:19 173:16
184:21 185:16	176:4,5 187:7	logged 90:4,4,6	254:16 261:15	180:15 202:12
185:19,24	listed 43:1 53:18	90:11 91:11	297:16 307:9	214:17 245:3
186:8 187:8	90:12,16 93:5	111:4	looked 21:10	245:20 268:8
188:12,14,16	104:11 110:3	logic 225:2	46:4 108:16	280:22 281:11
189:8,12,14,15	112:5 114:2	long 16:14,25	133:23 194:15	284:1,19 285:6
246:23,25	118:14 119:12	18:11 24:9	211:17 249:5	louis 15:13,15
247:5 249:13	119:14,17,20	40:13,16 44:15	263:14 292:11	44:7,7 94:3
250:4,19	138:21 139:25	51:15 109:5	305:4 308:25	214:4
257:21,22	154:8 161:14	231:12 287:20	looking 20:4 33:7	lower 49:5,19
276:21 277:4	175:12 181:14	longer 46:1 54:1	37:15,21 43:3	60:17 75:9
279:14,21	185:23 186:12	225:24	45:7 60:17 62:1	153:4
302:14 303:6	197:25 235:12	longest 55:12	70:8 72:3,19,22	lunch 145:25
lights 164:12	310:25	look 37:16 44:19	73:7,14 74:16	146:4,6
166:23 167:3	listing 92:24	45:13 46:8 59:1	86:18 94:25	
190:7 246:18	118:13 245:1	60:19 61:19	96:21 101:4,22	<u>M</u>
limit 57:19,20	lists 228:15	65:25 66:5,9	105:25 106:1	m 1:18,18 2:13

				Page 341
7:10 59:16	262:13 302:10	manner40:7	253:9,24	31:8 34:3,8,24
66:16 107:5	major 30:12 36:9	manual 4:23 49:1	279:10	37:18,21 38:8
146:6 190:19	36:14,18,20,22	49:23 50:4,16	market 289:11	38:11,22 39:6
190:24 205:14	36:25 37:8,9,13	51:12 52:19,20	marking 33:10	41:2,23 43:3,9
233:13 251:18	48:7 54:13	53:1 76:12,14	76:15	44:8,19,21 45:8
310:10,13	61:14 77:11,12	76:19 78:4	massive 312:4	46:14,14,17
312:1	81:15 82:10	84:11,25 85:22	match 228:16	47:3,3,12,13
m9 67:5	88:10 95:6	106:19,20	230:2	47:25 49:6,7,10
maam 67:1 121:4	116:16 123:8	305:14,14	material 45:11	52:7 53:1 54:11
maiden 16:23	130:23 143:25	309:1	277:1,14,20	55:7 57:22
main 15:4 17:11	144:2,5,17,18	manuals 51:6	materials 21:7	58:19 59:23
20:23 54:6 87:8	154:19 155:3	march 10:1 16:17	21:11 28:16	61:20 63:21
114:9 126:4	155:17 156:2	17:3 120:17,23	107:16 113:1	64:8,17 68:8,19
252:22	167:25 179:11	121:24 122:25	123:16 184:19	70:24 72:2,17
maintain 50:11	198:5 216:11	123:4,4 128:1,5	211:21	73:8,13 77:8,11
200:2,14,20	217:25 224:8	129:5 130:5	math 220:24	78:12,23 79:13
218:12 227:8	224:15 236:14	154:12 211:3	281:2	81:25 82:9
265:18 270:22	248:20 250:3	246:22 247:8	matt 296:2	86:22 87:12
271:7 272:17	252:12 264:19	247:19 248:1	matter 7:11 37:2	89:8,14 91:14
maintained	281:9 310:4	275:22	83:24 179:9	92:6 93:19,21
207:16	majority 248:17	mark 19:22	304:9,13	93:23 94:16
maintaining	284:4	33:14 41:16	maupin 9:14,14	97:8,19 98:2
204:17	making 39:13,25	48:19	maximum 69:19	100:16,16
maintains 252:23	50:2,2 52:14	marked 7:7 10:3	71:1,3,11,19	101:4,9,21
maintenance	71:9 100:15,17	10:3 19:24	75:9,10 103:4	102:7,21
15:13 21:4,14	103:10 135:4	33:16 48:22,25	105:11,21	105:24 108:4,8
21:18,20 62:17	150:3,7 166:2	60:12,14 76:13	106:14 131:14	109:22 110:12
138:13,18	170:14 171:4	88:17,20	131:17,21	110:22,25
139:8 140:4	171:20 180:6	103:17,20	226:25 227:5	112:4,7,20
143:10,14	182:23 185:6	107:3 113:5,9	232:9 276:1	113:1,17,19,22
144:6 153:18	186:18 242:17	120:5,9 127:12	289:11	114:25 115:7
157:11,17	273:6 276:8	127:15 140:13	mc 278:11	116:1 117:15
158:2,14,23	manage 15:14	140:16 147:2,5	mc2 167:11	117:22 118:5
159:6,12 160:9	management	150:14,17	mccarty 1:19	118:14,25
162:8 167:22	56:7 89:20,23	162:15,18	7:15	119:1,7,11
168:4,5,7,18	105:3,6 106:9	173:8 183:21	mclane 2:4 8:5,5	120:17 121:2
168:22 169:1,9	manager 18:11	183:25 190:21	294:5	123:2,4,11
169:15,18	31:9 41:16 66:9	191:3 196:12	mdnr 6:5,17 10:3	124:4,15
172:3 179:16	68:8 85:21	196:16 209:21	11:25 16:16	125:19 126:13
188:10 189:10	managers 15:3,7	209:25 223:17	18:18 19:15	126:20 128:5
190:15 207:15	15:8 33:3 37:21	223:20 234:8	22:4,15 24:13	129:6,11,15
249:17 255:13	52:7 53:3	234:11 239:23	24:20 27:20,24	130:2 132:2,8
257:25 262:5,8	281:22	240:2 246:2,5	28:6,10,15 30:9	133:22 134:5

Case No. EF-2024-0021 Schedule CME-r8, Page 107 of 136

				Page 342
134:13 135:4	206:25 207:4	50:18,21 51:13	176:12 180:9	49:3 184:1
136:24 138:3	207:10,22	52:3 61:5 64:2	181:9 199:3	mentioned 9:1
138:22 141:11	208:7,19 211:2	64:22 72:1	202:4 203:23	15:5 16:7 17:15
141:17,20	211:3 213:22	73:21 77:5	224:7 231:23	21:10 22:17
142:2,14,21	214:6 220:11	81:10 91:25	237:12 239:18	30:25 31:7
143:5,23 144:3	221:15 222:2	92:13 94:25	244:4 248:14	41:11 50:11
144:16 146:23	222:14 225:17	104:21 117:5	294:6,7,8	56:22 57:13
148:22 149:15	225:23 226:3	120:23 130:4	meaning 220:15	73:23 85:24
150:24 151:3	226:16 229:10	137:24 140:7	280:20 309:24	91:7 103:9
152:1,8,12	229:22 231:8	141:4 142:8	means 36:16	108:18 113:15
153:12,24	231:15 234:20	143:7 146:23	43:9 53:18,21	114:21 152:10
156:10 157:10	234:24 235:3	150:22 151:12	125:4,8 165:20	161:10 189:24
159:5,14,25	235:10,21	151:14 153:1	180:13,22	200:13 212:12
160:7,13 161:8	236:4,21	155:23 156:17	182:5 219:17	213:15 216:14
162:3,13 163:5	237:15 238:20	162:9 163:10	271:21	265:22 266:7
163:16 164:17	238:21 239:4,7	166:19 167:15	meant 126:1	278:3 287:18
165:4,19 166:1	240:16 241:6,8	181:9 186:12	238:9 297:13	296:2 301:18
166:10,16	241:13,15	186:21 189:3	mechanism	310:3
168:10,16	242:13,17,25	194:22 199:22	231:8	mentioning
169:8,14 170:1	243:3,9,13	203:14 206:25	meet 23:13,19	21:24 61:16
170:8,9 171:3	244:13,23,24	208:25 232:18	29:19 30:2,3	144:12 301:8
171:19,19,21	245:15 247:3	240:22 247:8	40:4,46:2	merely 207:14
174:5 175:7	247:18,21	248:6 254:13	185:25 203:19	met 23:16 229:17
178:8,11,22	249:9,24	255:2 257:4	250:11 289:14	248:22 292:5
179:17 180:10	250:14,21,25	284:19 299:12	meeting 48:7	metal 96:1
180:14 181:25	251:1,3,20	307:3 311:15	meetings 29:23	metchem 55:3
184:12,20	254:10,16,23	mean 13:23 25:6	43:13	method 64:5
185:5,9,11,15	255:4 256:25	27:9 29:12	mefrakis 32:22	67:12 68:17
185:19 186:2,6	257:7,21 280:6	30:14 31:17	32:23 141:17	71:23 72:25
186:11,15,24	298:14,20,25	34:15 36:19	141:20	256:15
187:3,10 189:1	299:4,8,11,18	43:12 53:25	megawatts	methodology
189:2,20	299:22 301:9	55:9,14 58:23	226:10	219:8
190:10 191:4	301:12,15,17	60:25 61:22,22	member 90:13	mexico 214:19
191:15,17,25	302:21 303:15	61:23 68:15	93:3 112:16	214:20,24
192:2,8 193:25	303:18 304:10	71:18 83:22	122:1 161:11	meyer 213:21
194:21 195:15	304:12,20	86:13 100:11	302:2	michael 121:10
196:2,4 197:5,7	305:10,21	100:21 114:16	members 21:13	212:16,19
197:11,20,22	308:19 309:25	119:14 125:13	104:10 122:19	213:1,4 241:8
198:11 199:8	310:4 311:14	132:23 133:8	281:20,25	mid1990s 61:6
200:4,10,20	311:17,19	137:21 149:17	memo 300:7	61:12 73:22
201:14,25	mdnrs 23:10	155:9 160:13	memory 20:10	136:16
202:7 203:5	28:14 38:2	162:5 168:2	20:12 21:5	mid80s 89:24
204:7,20 206:3	42:18 44:3	172:14,18	mention 11:6,17	middle 9:11

				Page 343
136:8 167:4	minute 293:8	174:8 190:3	219:2 220:19	132:1 147:6
231:13	minutes 42:10	192:3,5,8,9	223:6,12 241:8	262:4 272:23
midland 210:15	251:12	193:1,25	mittermeyers	284:25
mike 41:8,9	mischaracteriz	195:16 196:3	213:2 215:19	monday 23:15
104:11 126:25	282:6	203:6,13,13	mixed 260:22	money 283:22
215:19,22	missed 171:14	214:19,20,24	265:5	monitoring 15:20
216:6,12 223:5	missouri 1:2,5,9	218:9 245:14	mo 2:25	211:7
mikes 215:24	1:13,20,21,23	249:14 252:7	mock 294:16	month 90:24 91:1
216:7	1:24 2:24 4:25	252:10,12,17	295:11,14	206:9
milehigh 104:12	7:12,14,16,20	252:21 256:9	model 237:2,9	monthly 40:4,11
million 111:19	7:22,24 8:11	258:1,5,6,11	modelers 281:21	40:14,17,23
112:2	9:3,15,17,20	258:12,17,25	modeling 48:13	42:5 220:6
mind 39:22 59:4	10:12,14 11:25	259:1,4,6,6,14	211:7	months 16:24
75:7 135:13,14	13:8,19,20	261:4,5,18,22	modification	24:21 32:2
135:16	14:21 16:4 18:4	263:5,24	58:13 65:16	55:19 56:6
mine 164:7	26:3,6,14,17	265:13 267:7	66:17,20,25	206:17 245:6,7
minimus 32:13	26:19 27:21	267:16,18	67:4,11 68:2,9	moore 1:12,16
45:20 88:5	28:19 29:1,10	268:25 269:3	68:13,15 69:4,9	7:11 8:12,19
217:15 224:5,7	34:4,9,11,21	269:16 270:1,4	71:22 72:2,12	9:9,10,10 10:3
224:10,12,18	35:17,19,20	270:9 271:5	72:18,23 73:4	10:13 19:19
224:23 225:11	36:7 38:3,10	272:6 274:16	73:11 74:3,9,15	59:18 152:20
263:5,15	40:19 41:23	279:13 280:13	74:20 78:9	251:25
264:12 281:10	43:11 46:15	281:12 287:10	84:21 86:19	morning 8:24,25
282:15 283:10	47:15,24 49:10	293:18 294:16	87:15 100:2,12	19:17 23:15
288:6 289:2	51:7,10 52:11	295:4 299:5	100:18 101:17	136:4 146:22
minor 30:12 32:8	52:18 60:16,20	301:17 304:22	105:17 131:13	147:14 148:2
32:9,12 36:9,12	61:11 62:1,4	314:2	132:3,12 133:2	152:11 158:19
37:6 38:20 39:1	64:13 65:15,23	missouricolum	133:6 134:16	168:25 174:16
39:4 45:2,20	66:19 86:14	146:17	148:11 156:2	191:21 212:12
50:2 71:7 82:10	94:17 100:2,5	missouris 16:5	167:25 198:8	213:16 304:19
86:14 88:8	104:12,14	43:21 64:14	236:17 248:23	307:25 309:1
139:3 140:12	107:20 108:14	65:8 100:18	250:3 275:25	mornings 146:11
144:14,20	109:15 110:7	101:18 118:19	276:25 277:13	morrison 1:19
154:6,21	110:14,23	143:15 147:25	277:19 278:6	7:15
174:11,14	111:9,13,16	153:21 252:8	289:24 305:1	mosby 32:1
176:5 224:18	112:24 116:10	258:19 269:21	309:24	move 308:10
263:4,15	130:21 135:18	271:13	modifications	moved 157:7
264:12 281:10	136:15 143:11	misstates 132:15	59:9 66:16	multipage 88:25
282:16 283:10	143:17 145:18	159:22 180:25	226:14 238:6	113:10 120:10
306:20 308:9	153:19,19	mistake 267:7,9	modify 86:3	209:25
310:4	154:2 159:1,20	mittermeyer	modifying 79:6	multiple 48:12
minus 201:5	161:6 164:9,13	212:16,19	modot 4:20	86:4 204:4
261:16	170:25 173:25	213:4,22 214:2	moment 88:22	206:8 241:16
	1	1	1	1

Γ				Page 344
249:14 252:22	313:7	new 12:3 21:21	172:13	63:15,20,23
302:7	need 12:19 39:25	32:8 53:12,13	normal 140:4	88:12 144:17
municipal 151:4	40:6 42:23	55:3 59:4,7	230:17 282:15	148:4,6,7,25
152:15,18	68:17,24 70:15	60:10 65:11	nos 19:24 89:1	178:4,12,23
	74:13 80:13	78:9 82:19 90:8	103:21 120:10	179:1,3 189:4
<u> </u>	81:3 84:1,6,21	99:17,17	nose 130:11	201:11 202:16
n 2:1,6 3:1 4:1	85:5 120:3	104:20 132:8	131:13 132:9	203:16 245:17
name 7:18 9:1,8	161:24 172:1	132:13,23	132:21 275:25	252:23 260:16
9:9,9,10 16:21	189:2 199:11	133:4,16	notary 313:20	261:4,13,15,18
16:23 90:9 93:9	199:12 200:2	146:11 151:21	note 88:24	261:22 269:16
147:17,18,20	201:3,6 208:14	178:3 189:19	226:12 249:1	269:21 272:6
177:5 225:14	216:3 244:8	189:22 212:13	273:11	301:21
313:23	245:8 249:18	213:13 215:16	noted 110:12	number 10:11
names 15:8	272:13 283:2	245:6 273:12	184:18 200:17	11:18 36:4
188:22 252:1	285:1 293:21	273:15 290:12	208:4	46:11 49:4,6
narrative 176:21	295:24	308:13,19	notes 42:11	65:3 66:16 90:5
215:21,22	needed 33:20	309:6,9,9,13	146:13 163:24	90:5,6,9,18,20
narrow262:14	40:22 43:1 56:5	309:21	164:1 251:12	90:25 108:2,11
narrowly 262:8	91:11 105:10	nickel 179:20	notice 25:7,13	109:6,8,9,11
nationally 45:25	139:3 154:6	180:11 183:11	26:6,21 27:2	109:25 110:2
nationwide 26:12	155:22 171:20	nine 223:9	28:15 29:5	124:13 134:14
26:13,15,16	186:13 188:7	281:23,24	38:17,19	136:11 151:6
natural 8:1,11	189:11 215:10	noedel 5:19	114:22 118:13	158:5 178:5
9:20 10:12,15	216:6 241:20	41:15 118:14	222:8 233:22	180:5,19 184:4
11:25 13:8,18	260:24	118:17 119:3,4	263:21 264:3	212:1 216:21
164:9 203:14	needing 46:1	119:20 147:14	269:10,15,20	228:3 231:16
225:6 246:23	needs 54:11	148:1,9	286:14,18,20	249:6 252:4
259:5	68:19 85:17	noedels 147:17	noticed 85:25	254:9 283:6
nature 30:17	250:19 263:4	nomenclature	notices 26:10	285:13,24
139:11 158:6	neither 314:14	265:4	notified 196:2	288:8,10 298:8
169:24 183:16	net 83:14,20 84:2	nonapplicability	november	301:20
255:25 257:24	84:10,13 85:3	32:15 33:4	152:20 240:16	numbering 53:6
283:16	87:17 201:5	154:14,25	240:22,24	217:5 219:24
nebraska 30:1	221:20	156:5 168:16	241:13 242:14	257:15
necessarily 31:5	netting 84:7	174:21 185:1	242:17 243:7	numbers 49:5,10
39:11 98:4	network 21:13	185:16 217:1	244:21	90:24 108:2
99:16 160:13	21:18 22:3,4,6	224:18 250:22	novs 25:25	167:15 218:13
195:11 208:12	22:8,9 105:4	nonattainable	nsm 201:11	280:15 281:8
208:13	301:19,25	12:5	nsps 98:18,20	numerous
necessary	302:4,8	nonattainment	99:5,7,9 250:12	169:10
121:14 208:22	never 54:18 64:8	15:15 88:12	nsr 12:3,5 26:3,5	nw 3:12
236:24 242:18	84:6 157:19	nonbase 248:9	26:11 27:4 29:1	
289:12 296:6	303:15,18	nonroutineness	29:11 36:12	0
	7 -			
	1	I	I	I

				Page 345
oath 12:24	204:24 206:6	126:14 139:4	okay 7:8 8:16	152:10 155:6
object 29:3,21	206:19 209:5	occurred 171:15	11:2,8,16,23	155:21 165:3,5
119:6 173:3	209:15 237:22	172:10,20	12:5,14,18 14:7	168:15 172:22
180:24 260:2	249:10 255:17	207:25 208:2,5	15:12 16:25	172:24 173:13
291:15	256:11 258:8	294:13	18:8 23:5,8	173:20,23
objected 29:1,10	258:21 259:8	occurrence	31:14 32:4 33:2	175:3,5,23
29:12	260:2,18	245:9 303:7,8	36:17 37:5,18	177:25 180:5
objection 23:19	261:25 262:10	occurring 70:16	39:15 43:19	181:19 184:6
33:10,13 47:17	262:23 263:10	82:5	44:2 47:23	186:5 187:2
55:22 57:9 61:7	264:14,20	occurs 80:4	48:18,24 49:8	191:5,11
65:18 66:2 67:7	266:19 267:11	192:21 193:18	49:12 53:17	194:20,25
67:19,19 68:3	267:24 270:13	oclock 310:13	56:10 57:12	196:1,11,20
69:6,15,25	270:16 271:9	october 24:22	58:9,11,19 59:3	197:11 203:12
70:13 71:14	272:1,10	61:24 141:2,4	59:15 60:7,18	205:7,13,19
72:6 73:16,25	273:18 275:4	142:8 143:7	62:7 65:5 68:19	208:24 210:2
74:10 75:23	276:15 278:20	144:16 210:13	71:6 72:10,11	210:16,23
78:6 79:17 80:8	282:5 283:19	212:10 215:14	74:6 75:14,18	211:9,16 212:2
80:23 82:1 83:1	286:25 287:12	216:17,23,23	76:16 77:2	212:8 214:2,6
83:16 85:9	287:17 288:19	offer 203:5	79:13,23 80:1,4	217:7,10,13
86:25 87:22	289:21 290:7	offered 149:1	80:5,17,20 81:6	218:24 219:22
95:11,18 96:6	290:20 292:12	215:24	81:17,19,20,23	219:25 224:14
96:25 97:11	297:11 300:17	offhand 97:23	82:8 83:6 84:11	228:8,18,25
98:11,23 99:8	301:6 306:21	office 2:22 7:25	85:16 88:19,21	229:19 230:4
99:15 101:24	objections 29:21	9:19,23 15:14	89:15 90:17	231:24 232:14
102:11 103:6	222:14 274:1	20:25 28:8,9	92:6,10,21	233:2,9,12
106:4 111:20	objective 29:18	32:20 45:13	93:11 94:9	234:13,13,23
116:7,22 119:8	obligation	48:14 51:19	95:15 99:20,23	237:10 238:2,8
122:16 123:19	200:10,13	108:14 119:20	100:25 103:16	239:12 240:2,4
130:15 132:15	258:6,12	177:22	103:19 105:7	242:5 246:5,7
133:7 134:6,17	obtain 30:18	officer 314:8	105:23 106:17	249:21 252:6
135:7 136:17	262:22 263:4	offices 1:19 7:15	106:22 107:11	252:12,17,20
138:25 139:20	obtained 22:12	177:22	108:1 109:14	253:7,13 254:4
140:2,2 142:5	102:24 172:21	official 17:4	110:22 111:12	254:8,18 255:9
142:11,18,18	301:13 302:5	52:13 162:5	113:12 114:13	255:19,22
144:7 148:16	obviously 45:21	210:14,16	118:13 120:3,8	256:4,18,21,25
149:3 150:8	114:17 133:9	offtherecord	120:12 125:15	257:10,13,17
159:22 181:12	occasion 93:9	205:12	125:18,22	258:1 259:4,17
183:1 189:5,21	303:18 304:12	oh 46:8 94:7	127:15,17	259:20 260:4
192:24 195:5,7	occasionally	117:10,11	135:17 136:10	260:13,15,21
198:23 199:5	30:1	173:16 175:23	138:8,11	260:25 261:3
199:10 201:1	occasions 124:25	218:5 223:10	140:19 143:19	261:10,12,18
201:18 202:3	occur 68:2,9 72:2	270:3 278:9	145:23 146:1	261:21 262:6
202:17 203:2	72:19 85:18	oil 214:18	147:8 150:20	262:16 263:7

Case No. EF-2024-0021 Schedule CME-r8, Page 111 of 136

				Page 346
263:17,20	older 114:6	opportunity	226:9 238:14	135:25 136:9
264:6,10,17,23	170:5	137:9 140:24	238:15	143:18,20
265:1,10,19,22	once 34:22 43:24	162:22 174:20	outside 29:4 86:6	151:14 153:7
266:1,4,15	48:4,10 52:21	196:23 240:9	86:11,12,12	153:11 157:10
267:6,16,21	86:2 87:5,23	246:11	99:8 131:25	157:23 158:25
268:10,15,25	ones 44:17 121:8	opposed 59:5	overall 53:17	163:10 165:4
269:8,9,14,18	176:11	135:3 176:10	54:9 226:9	167:4,4,19
269:24 270:3	oops 253:23	oral 28:1,4	overfire 123:24	175:14,20
270:25 271:12	open49:25	order 6:19 51:23	overly 55:13	176:3 179:14
271:16 272:5	opened 292:4	58:12 69:3	306:2	179:14 184:15
272:16,19,22	operate 232:7,23	84:21 121:15	oversee 15:1	187:24 191:12
272:24,25	operated 70:21	155:3 200:8	oversight 216:6	197:12 205:21
273:1,6,11,15	95:4 232:5	202:16 203:16	216:12 258:23	205:22,23
273:23 274:11	233:3	205:3 227:11	overview 5:5	207:5 210:17
274:18,21	operating 18:3	229:9 250:2	48:17 104:3	210:17 211:16
275:9,14,24	41:6 69:12	org 281:24	owned132:6	212:9,23
276:6,10,13,19	227:9 232:9	organization	owner 66:24	214:15 215:2
276:24 277:18	248:16 273:23	30:10		217:5 219:20
277:22 278:9	278:15,23	organizational	<u> </u>	219:23 225:1,5
278:18 279:2,2	306:10,15	30:15	p 1:18 2:1,1,21	225:13 226:6
279:5,7,12,16	operation 58:12	organized 22:6,7	3:1,1 67:23	226:16 228:6
279:19,23,25	58:15 64:5	120:4	77:23 146:6	228:12 229:13
280:5,8,12,25	65:14 67:13,13	oriented 272:23	190:19,24	230:24 235:3
281:13,18	67:16 68:17	original 4:9,9	205:14 233:13	238:3 240:19
282:2,18	69:17 70:16	25:15 92:5	251:18 310:10	241:13 247:8
283:14,14	71:4,23 73:1	96:10 130:14	310:13 312:1	249:2 254:9,24
284:18,22,24	78:21 105:13	313:8	page 36:16 49:1	255:23 257:1
285:4,8,10,13	131:16 274:5	originally 301:21	53:6 60:17 65:3	257:14,15,17
286:2,13,17,23	276:3 289:11	outage 117:12	66:17,23 67:5	257:18,19
287:4,9,16	operational 58:1	124:24 125:3	67:21 76:14,15	264:2 269:18
288:2,8,13,23	58:15 68:20,24	208:8,24	78:3,4 82:14	269:19 274:21
289:7,18 290:4	72:19 74:7,7	outages 96:23	83:6,7 87:4	277:9 285:24
290:15 291:2,9	84:14,22 85:6	97:9,20,24	89:19 91:13,14	288:10 289:10
291:18 292:10	87:16 97:4	117:6,10 124:7	93:12 94:25	309:1,3 310:19
296:10 297:1,5	125:16 260:7	124:9 131:15	98:14 105:7	pages 106:8
298:7 300:5	260:10 271:23	207:11,16,24	108:18 109:7	107:18 120:14
301:18 302:16	operations	208:20 276:2	109:15 110:3,9	120:19,21,22
302:20 303:23	207:15	276:11,14	112:9 115:6,7	127:23 128:4
306:9 307:15	operator 66:24	outcome 199:9	115:15 117:14	140:25 141:10
308:12 309:4	opinion 119:25	314:18	118:14 121:1,2	141:14,15
310:16 311:13	132:17 157:16	outlined 200:2	124:11,12	163:24 196:24
312:7	158:1 166:22	250:6	125:19 128:7	197:2 210:7,11
old 113:25	203:8 266:13	output 225:3	129:15 135:24	210:14 234:14

				Page 347
240:10,13	158:18 160:6	path 230:19	306:16	65:17 66:8,12
246:11,14	207:16,17,19	pats 109:2	periods 206:13	68:7,8,10 69:5
pams 89:20,23	208:12,20	pc 309:6	permanent	72:1 74:21
93:2 109:3	210:21 211:4	pcp 270:5	168:21 169:5	76:23 81:9
paper 20:4 33:18	228:7 241:23	pdf 22:12 301:24	189:25	85:21 87:6,20
114:18 120:3	243:21 244:7	pe 146:20 213:18	permanently	87:25 88:2,5,6
313:8	260:6,9,14	213:19 225:22	18:15	88:11 89:7,20
paragraph 82:15	261:8 278:21	peaking 232:5	permit 4:22 5:7	89:22 90:2,3,11
95:17,23 99:20	279:12 289:25	pendency 192:23	5:10 6:9,11	90:13 91:7,8,9
99:22,25 100:9	303:20	193:20	15:17 16:19,20	92:8,14,19
117:17 131:11	participant 41:15	pendent 164:22	16:25 17:4,5,8	93:15 95:2 99:2
132:11 143:7	participate 43:13	165:10 166:18	17:9,21,22 18:1	99:12,18
153:6,11,15	participates 41:2	pending 1:22	18:2,3,5,11,20	100:13,21,22
155:15 157:9	41:10	241:21 242:2	18:21,23,25	100:23 102:9
157:25 158:25	particular 43:4	251:21	20:12,24 21:1	102:14 105:1,4
167:4 187:14	43:24 51:24	penetrate 295:9	21:15 22:8,9,10	105:5,10,25
192:1,13 193:5	52:3,20 70:20	people 106:12	22:21 24:2,3,7	108:8,13,22
198:16 199:14	90:17 94:24	282:3,19	24:15,16 30:6,7	109:2 110:9,12
199:17 200:15	100:8 113:2	283:18	30:11,18,24	110:17,19,20
205:23 226:24	116:20 119:22	perceive 38:6	31:9,19 32:18	110:24,25
230:24 236:11	122:9 128:24	perceived 64:17	32:19,19,21,24	111:3,4,6,8
238:2,13	131:7 135:5	percent 54:16	33:3,5 34:12	112:6 113:2,21
241:12,24	136:20 158:15	232:6 250:10	35:20,24 36:8	114:3,4 115:11
242:16 248:1,8	166:15 169:12	280:18 306:10	36:20 37:14,19	116:4,10,13
249:1 250:9,9	170:11 181:10	306:16	37:20,25 38:3,8	121:8,10,12,22
270:2 273:12	182:24 203:23	percentage	38:16,17 39:3	122:17 123:12
276:25 278:11	208:19 220:15	182:4,10,12,16	39:16,22,23	126:24 128:15
286:2 287:4	221:12 253:6	183:7	40:16,19,20	128:17,20,22
289:9 309:2	271:24 299:14	perform 79:25	41:4,6,7,8	128:25 129:10
paragraphs	299:15	performance	42:24 44:3,19	129:22 130:5
269:24	particularly	99:17 238:7,10	44:20 45:3,7,11	133:10,13,14
parameters	293:13	performed 198:8	45:15,18,19,19	133:18 136:16
131:20	parties 314:15	236:2 250:14	46:4,5,6,9 47:8	136:24 137:2,9
parens 89:20,21	314:17	285:18 287:7	48:1,2,11 49:1	139:3 141:7,24
178:23 192:18	partner 38:9	performing	49:17,18 52:6,7	142:15 143:2
218:3 309:6,6	258:25	85:20 115:21	52:14 53:2,12	143:17 144:5
part 8:21 17:12	partners 171:24	205:24 207:15	53:13,22,23,24	144:14,19,21
23:19 27:3 43:6	parts 126:5	256:9 288:25	53:25 54:19,23	144:23 145:3
46:19 57:2 58:5	138:13,19	period 18:17,24	55:1,6,7 56:14	145:12 147:24
58:7 85:11	139:8 259:25	32:1,23 61:15	56:16,19 57:8	147:25 152:13
98:25 136:1	261:22	82:11 174:20	58:3,7,7,14,18	153:25 154:1,7
138:2 140:4	passed 213:18	206:13,18,18	59:1,20,24,25	154:9,19,20,22
153:4 154:23	pasted 188:2	220:7 233:4	60:2,6,7,8,22	155:22,24

Case No. EF-2024-0021 Schedule CME-r8, Page 113 of 136

				Page 348
156:12,14,14	237:16 238:22	17:11,13,14	61:11 62:4 65:9	phone 41:25
156:17,21,23	241:3,17 242:1	18:4 19:1,3	65:10,15,24,25	119:3 185:18
157:3,4,7 161:4	242:3,6 243:5	30:25 31:15,17	66:6,9,10,18	phrase 72:22
161:8 163:12	245:3,7 246:16	31:21 32:5,9,9	66:19 76:25	73:2 101:21
163:22 164:10	246:24 247:1,4	32:11,13 35:2	82:9 84:1 85:7	126:1,11 168:2
165:23 169:2	247:7,13,25,25	38:11,21,21,25	86:6,14,24	189:22 238:10
169:18 170:5	249:24 250:4	39:1,4 41:12	87:14,19,20	276:10
172:20,20	250:24 262:17	42:24 44:19,23	94:19 98:21	physical 67:12
174:10,23	262:20 263:2,5	44:24,24 45:1	99:6,11 100:19	68:16,20,24
175:7,10,16	263:8,11,25	45:20,20,20	101:18 104:3	71:22 72:19
176:3,6,9,10	264:11 265:2,9	46:11,20 53:14	104:12,15,19	74:6,7 79:25
176:13,13	265:11,23	53:21 54:15,18	105:2 106:8,13	80:18 81:18,21
178:13 197:16	266:2,4,8,11	55:21 58:19,22	118:5,19,22	84:14,22 85:6
198:1,12	266:15,16,22	58:24 59:3,8	130:2 136:15	87:15 260:7,9
202:11 206:8	267:14,17,21	63:16 86:5,5	137:10 140:12	271:23
208:23 209:8	267:22 268:17	88:8,10,15	143:16 153:19	physically 285:5
209:16 210:10	268:22 272:14	94:22 105:19	153:22 154:5	pick 41:25
210:11,15,16	272:20 273:3,6	106:10 108:11	155:17 157:6	picture 183:3,3,4
210:19,21	273:7 274:13	108:19 110:3	174:5,12,25	piece 58:25
211:4,5,8,10	275:10,16	112:9 123:2	184:18 192:4	68:13,14 75:8
211:21,25	276:7 278:3	161:5 174:12	194:22 195:6	75:10,11
212:5,8,21,23	280:2,13,17,22	174:17 176:6	198:8 200:11	104:16 174:6
213:5,8,11,13	280:23 281:4,5	199:13 215:10	212:20 214:14	175:1 307:11
215:3,3,14,17	281:8,9,19,20	215:12 216:11	215:15 216:9	307:14 308:6,7
215:21 216:1	281:21,22,25	222:5 226:14	217:25 222:2	pieces 48:13
216:17,19,24	282:1,4,9,10	237:25 263:15	229:3 236:17	63:16 79:9,11
217:6 219:10	282:13,13,16	281:6,6,15	248:24 264:13	79:22 154:4
222:3,3,8,14	283:5,6,7,9,10	282:15,23,24	266:18 267:10	242:22
222:17 223:12	283:24 284:1	282:25 283:2,3	305:14	pierce 295:9
223:25 224:3,4	284:12,15,20	283:10,22	person 36:20	pipe 87:10
224:5,6,7,8,10	285:14 288:6	284:2,3,6 285:7	40:18 92:22	place 58:6,15
224:10,15,18	288:24 289:2	permitted 224:22	93:5 115:15,21	61:25 66:5,11
224:23 225:1	297:14 298:9	230:5 233:3	163:18 212:17	108:25 109:2,5
225:10,11,24	298:15,21	permitting 4:25	235:12 283:17	110:25 124:14
226:6,18 227:1	299:1,10	5:5 14:3,17	personally 23:1	136:23 248:19
227:6,10 228:1	301:19 303:1	15:3 16:7,10	216:8	placement
228:6,7,9,10	304:21 305:23	20:12 30:4,17	personnel 15:23	164:11
228:12,22,23	305:23 306:20	40:4 42:18	persons 93:9	places 34:1
229:1,16	307:5,6,7	43:11,22 45:2	perspective	302:8
230:14,17,21	308:10 310:22	46:15 47:6,14	11:12 27:10	plaintiff 1:6,24
233:16,19,22	311:4,6,14	47:22 51:9	30:15 34:16	2:2 7:2 8:3
234:1,4,6,21	permits 14:10,13	52:10,14 57:22	37:12	252:2
235:7,17,24,25	16:11 17:2,10	60:16,20 61:3,5	pertaining 23:18	plan 14:5 34:21

Case No. EF-2024-0021 Schedule CME-r8, Page 114 of 136

				Page 349
35:11 159:2	point 17:25 50:9	129:8 132:8	69:11,12,16	potentially 36:24
192:4 226:1	52:24 82:16	140:7 141:22	70:5,8,15,15	198:7 295:16
252:10,14	93:18 100:9	148:23 172:7	70:19,21,25	power27:7 29:2
planning 14:4	106:10,15	206:25 213:10	71:3,9,18,19	58:24 59:7,9
15:5,18 225:25	112:20 114:15	247:23 264:11	71:24 72:4,13	134:14 149:16
226:2 244:3,6,7	114:20 134:13	264:24,25	72:20 73:5,10	149:19 151:4
244:11 277:4	175:4 186:10	271:13 293:23	73:12,15,18	152:15 153:5
287:19,21,24	191:17 223:4	295:5	74:4,8,24 75:3	157:15 163:4
297:20	230:15 268:12	positions 15:11	75:12,15,21	164:12 165:16
plans 15:19	296:4	31:13 171:21	77:3,19 78:5,9	166:23 167:3
287:22	pointed 273:2	189:4 264:18	78:10,12,16,21	167:18 184:13
plant 5:8 59:7,7	pointing 19:14	positive 164:4	78:23 79:1,4,8	184:21 185:19
71:10 77:9 94:6	points 187:8	possibility 21:5	79:10,14,15	185:24 186:8
95:3,6 96:22	policy 167:21	21:23 194:6,18	80:3,6,14,21	187:8 188:12
97:9,10,21	168:3 265:20	194:22 195:1	81:22,24 82:3,5	188:14,16
101:12,23	pollutant 36:21	195:10,17,22	82:18,22 83:4,9	189:8,12,14,15
108:9 116:16	67:15 131:15	204:14 270:12	83:12,25 84:6,8	190:7 197:8
123:8,18 124:6	218:8 276:1	271:1,17	84:12,18 85:13	198:5,14 226:9
132:6 142:4	pollutants 36:23	303:21	86:23 87:16,24	236:8 246:18
143:25 151:4	132:13,14,19	possible 55:17	100:1 101:2,6	246:23,25
152:16 153:5	132:24 133:1,5	56:1,6 71:19	101:10,13,16	247:5 248:17
157:16 181:22	133:17,21	190:3 206:9	101:21,22	248:18 249:13
214:18,25	216:25 228:16	278:25	102:1,5,9,18	250:4,19
226:9 232:4,23	polluted 218:8	possibly 45:4	102:22 105:9	257:21,21
248:18	pollution 9:24	171:17 275:7	105:11,20	276:21 277:4
plants 26:19	13:9,13,14 24:8	276:17 278:6	106:1,1,10,11	279:13,21
58:21,24 59:5,9	63:18 67:13	287:24	106:13 135:6	303:6
149:16 195:16	104:4 109:19	post 51:23	138:23 139:12	powerpoint
196:3 241:16	116:10 141:23	posted 51:6,13	139:18 140:9	22:24
platwide 63:17	165:9,13	52:3,21 104:21	217:19,20,22	practice 64:11
play 201:22	191:14 192:15	postgraduate	226:13 227:1,6	64:21,22 73:21
please 7:16 9:7	193:13	146:18	227:8,10,20,23	119:11,17
11:4,14 88:23	portion 46:6	postproject	227:23 228:2	122:13
103:23 107:10	55:21 164:11	201:15 202:2	228:16,22	preapplication
113:11 127:18	211:9 270:7,8	202:15 203:15	229:2,5,10,16	48:6
140:18 143:17	270:11 282:13	229:24,25	229:23,24	precedental
147:7 150:19	portions 269:16	230:5 231:10	230:7 231:9,15	267:23
190:17 196:19	position 13:10	231:16 233:3	231:17 232:21	preceding
210:3 240:5	16:18 17:15	248:2 251:4,8	256:15 260:22	286:13
pm 220:2,2,25	18:15 24:6,9,13	305:22	274:6 305:2,5	preclude 266:17
221:9,13,16,21	32:5 81:11	potential 67:14	305:22 306:7	266:24
221:24 222:25	115:25 121:19	67:17,25 68:5	307:9,11 308:1	preconference
ро 2:23	126:21 127:9	68:12,18,25	309:5,25	177:18

Γ				Page 350
preconstruction	present 3:16	211:5,8 217:23	proceedings	32:7,12,15
176:11,12	18:18 23:1	220:4 227:6	312:8	33:25 34:3,8
211:6 271:19	31:12 32:14	228:22,23	process 11:20	38:3,4,9 41:4
predecessor	33:1,2 103:19	229:3,17 231:3	21:1 30:17	43:11,14,16,22
108:20	107:7 120:8	232:22 239:21	44:18 46:14,21	44:3,8 45:2,25
preference 32:21	177:11,15	245:6 290:11	47:7,8,9,22,25	46:2,18,19 47:1
114:1	249:18 251:22	295:22 296:23	48:9 49:18	47:7,14 99:5,9
prefix 49:6,9	presentation	297:13,23	57:22 63:20	104:4,18,20
preliminaries	21:13 22:17,20	302:21 304:21	76:25 81:8 82:8	116:11 140:5
8:14	22:24 23:2	307:3	83:8,13 84:16	141:23 165:9
preliminary	presented 71:4	privilege 23:21	86:6,11 87:12	167:23 168:8
50:10	79:4,13 92:16	293:17,19	94:15 104:19	173:25 174:1,5
prepams 108:12	121:9 122:11	294:23	105:5 150:3,7	174:8,10,11,12
preparation	171:23 308:19	privileged	154:23 162:2,5	176:19 177:13
20:19 23:9 24:1	presenting 113:8	291:16,20	165:19 166:2,7	177:14,16,24
25:25 50:15	150:17 173:11	292:13,17,20	179:5 189:3,19	178:4 191:15
104:5 107:17	196:15 204:12	295:3,10	208:21 212:20	213:24,25
115:4 117:4	209:24	privy 25:3 86:15	222:7 266:10	271:18,19
120:15 123:17	press 296:4	202:10	268:1 280:14	283:24 302:24
127:24 131:1	pretty 186:25	probably 11:18	processed 44:23	programs 12:5
140:25 150:22	196:8	22:22 23:4	processes 20:12	18:21 165:14
162:22 164:16	prevent 267:8	36:15 46:9	processing 53:17	225:25
173:7 184:10	preventative	50:10 51:15,22	54:9	progress 85:25
191:8 207:9	207:15	76:11 106:20	produce 149:13	prohibited 65:14
210:7 214:12	prevention 9:5	135:9 144:19	produced 1:17	prohibits 65:15
215:20 223:25	12:4,8 220:1	150:12 170:5,6	8:20 49:7,11	project 6:13 37:2
234:15 236:2	previous 49:22	171:17 179:5	89:13 108:1	37:3,6,7,8,9,16
240:10 246:10	75:10 185:20	187:13 230:17	211:17 301:15	37:16 39:9
prepare 19:5	229:17 239:16	246:15 248:15	product 231:4	42:21 43:4 48:8
42:24 96:16	294:19,19	253:1,4 280:16	production 75:1	54:5,24 56:15
272:7	previously	280:18 281:6,8	75:20 94:11	60:2 70:20,20
prepared 19:7	189:20	282:12 297:18	126:7	74:2 77:20 78:5
223:12 292:3,7	primarily 244:18	305:19	professional	78:13,15,24
preparing 292:15	primary 17:8	probative 296:5	30:21 314:7	79:2,4,13,16
preproject	prior 19:17 24:13	problem 294:15	program 9:6,24	79:25 80:3,7,11
229:23,25	24:21 31:24,25	problems 123:25	12:9 13:9,11,12	80:11,12,22
230:8 231:9,11	48:5 51:1 55:16	procedure 4:23	13:13,14,16,17	81:24 82:6 83:9
231:16,17	56:1 63:25 64:1	49:1,17 158:1	13:21 14:3,8,10	83:12,15,25
232:20,20	111:13 113:25	182:8 266:6	14:15,20 15:1,2	84:6,8,13 85:1
251:8 272:7	117:9,12	proceed 8:14	15:4,15,24	89:25 90:1,5,6
297:9 298:2	121:18 137:14	10:22	16:19 18:13,14	90:9,10,11,15
306:6	179:4 186:16	proceeding 45:9	24:8,10 31:22	90:18,23,25
presence 313:17	187:12 206:4,8	206:14	31:23,23,24	91:1,3,6,7,10

Case No. EF-2024-0021 Schedule CME-r8, Page 116 of 136

				Page 351
91:12 92:3,4,7	214:13,14	219:11 220:20	242:23 243:11	247:4 248:19
93:1,2 97:14	216:2,21	221:3,6 228:14	243:16 244:1,2	248:22 249:25
98:3,4,8 100:22	217:23 224:11	229:14,15	244:16,17	275:24 286:18
101:6,7 102:23	225:1 226:18	230:2,3,4	245:2,3,16	286:20,24
102:24 105:9	228:14 229:11	232:10,22,25	249:15 268:18	289:16
106:2 108:3,9	229:12 231:3	239:8 274:8	268:22 280:17	proposes 81:18
108:11 109:8,9	232:17,19,22	278:22,23	281:5 282:9,10	135:2
109:11 110:6,8	233:25 234:2	297:16 303:21	282:11,12,16	proposing 78:18
110:18 111:3	235:18 236:3	projectedactua	282:21,22	98:2 116:20
112:17,18	236:12,25	165:24 167:23	283:7,8 285:21	123:18 214:13
113:4,15,25	237:1,17,20	168:9 169:6	287:11,21,25	236:17,21
114:5,5 115:23	238:23 239:7	205:25	288:24 301:4	237:4 242:10
116:5,20	239:21 240:17	projectedactua	proper 294:3	242:13 243:7
117:16,17,23	241:22,23	63:9 64:7 185:4	295:9	prosecution
121:11 122:2	242:7 244:2,5,6	203:19 227:12	properly 46:18	28:20 293:17
123:22 125:23	244:7 245:4,4,5	238:25 239:2	property 222:16	293:19 294:23
130:7,9,10	247:1,4 248:5	250:2,8	proposal 198:13	protect 295:3
131:2 132:4	248:19,22	projectedtoact	204:14 207:19	protection 8:8
133:6 134:1,2	249:2,25 250:3	261:16	propose 134:23	11:23 25:10
134:21 142:15	253:6 255:13	projecting	proposed 72:3	protective 6:19
143:10 144:6	256:2 257:9	278:14	101:5,9 105:9	protocol 150:3,6
145:15 151:1,6	260:23 271:22	projection 205:2	111:18 116:4	150:9,10 162:2
152:4,19 153:1	273:24 274:7	207:4 272:8	117:5 123:5	166:2 180:6,15
154:4 155:4,16	274:22 275:2	297:10 298:4	126:14 130:6,9	protocols 180:10
155:19 156:12	276:14 278:16	projections	130:10 131:2	proud 55:13
157:3 159:12	278:19 280:10	192:18 195:2	131:13 132:2	provide 34:17,20
160:8,14	283:4,5 284:6	195:16,22	132:12,19	46:13 50:25
161:12 162:3	285:17 289:19	196:4 256:10	133:1,6,19,20	51:6 64:2,3
163:23 164:17	290:6,11,12,16	projects 14:6	133:23 142:3	76:22 78:4
164:19 165:20	290:18 296:23	30:18,24 37:23	142:15 144:5	104:14 121:15
166:9 167:10	296:24 297:14	40:5,5 42:13,15	152:15,19	124:20 169:14
167:24 168:12	297:14,24	42:22 48:6	153:1 157:18	200:1 204:16
169:13 170:11	299:14,16	94:17 111:23	158:10 165:20	219:20 222:13
176:7 182:20	300:12 301:1	112:1 114:6	168:12,17	248:17 286:6
184:22 185:17	302:23 307:8,9	128:15 139:14	185:17 194:17	provided 19:10
186:9 188:13	307:10,12,13	154:1 156:15	199:19,23	19:16 25:4 28:5
192:15 193:13	307:23 308:2,4	161:23 172:16	201:7 206:14	38:21,25 39:6
197:25 199:19	308:8 309:16	173:2 175:11	207:12,23	60:5 63:5 64:4
199:23 200:25	309:17,23	175:12,13	209:3 221:12	78:19 104:13
201:4,7 204:12	310:24 311:12	181:11 195:20	224:22 226:8	105:1 117:25
205:1 206:14	projected 201:4	203:8 209:14	230:19 237:17	121:11 123:22
208:1,15 212:1	201:8 202:16	214:17 216:10	238:6,23	171:12 178:6,8
212:5,22	203:16 219:5,9	222:23 242:22	239:21 243:10	178:10 186:20

Case No. EF-2024-0021 Schedule CME-r8, Page 117 of 136

				Page 352
196:6 199:24	44:22 45:20	216:10,17,24	313:20	73:3 77:12 79:3
200:6 216:6	46:18,20 47:1,4	216:25 217:5	publicly 51:17	82:14 84:7,18
219:12 223:7	47:6,8,22 48:3	217:16 218:14	52:17,21	97:16 99:12
234:25 238:16	48:4,5,6,12	219:23 220:1	published 258:3	106:10 113:13
238:19 239:1	53:14,15 54:14	221:8,13,21	286:3	117:13 119:16
239:11 247:6	54:15,17,23	222:5,6,8,14	pull 54:23 281:7	124:9 128:7
257:20 294:12	55:1,6,7,10,21	222:17,22	purpose 89:21	133:3 137:16
provides 43:9	56:13,14,15,19	224:10,17	106:6,15	137:19 138:2
52:25 64:14	56:19 57:2,8,17	226:17 227:11	128:14 158:7	150:5 154:3
67:12 87:5	58:2,3,5,7,14	229:9,22	180:19 256:1	157:1 160:20
159:16 183:7	58:19,22,24	233:15,19	purposes 67:4	172:22,25
192:15,16	59:3,8,9 60:8	234:4,5 236:16	68:1 101:5	173:18 176:15
242:23 244:11	63:5,16,20	236:18 238:22	125:12 159:11	179:19,22
248:2 258:23	86:15 88:11	241:21,23	159:13 160:10	180:6,18 181:5
providing 72:24	94:21 100:23	242:3,6 243:5	162:4 166:3	181:15 182:3,6
121:18 179:17	116:13 118:21	244:9 248:23	168:12 241:17	187:1 193:17
256:8	137:9 142:2	249:24 250:18	245:16 256:16	196:8 201:22
provision 136:15	144:5,19,22,25	251:4,9 252:13	267:18 285:21	203:6,10,18
143:14 144:4	145:3,7,11	255:7 256:16	305:22	204:18,20
153:21 192:15	153:25 154:5	257:7 259:18	pursuant 200:17	209:7,11
193:13,15	154:11,15,20	259:22,23	pursuing 296:9	217:14 223:4
195:17 226:21	154:24 155:5	260:17,17,23	purview15:2	223:10 227:14
231:7,21	155:19,24	261:17 262:22	put 11:19 20:6	231:12,20
270:25	156:3,5,9,12	262:22 263:2,8	42:4 54:5 58:6	232:11,12
provisions 36:8	156:15,17,23	263:13 267:19	73:8 104:9,17	233:1 242:5
63:18,19 192:9	157:2,6 159:13	271:18 272:8	170:13 238:17	245:10,15
192:17 193:18	160:10,14,22	272:14 278:19	239:1 297:21	253:2,6 256:14
193:19 194:1,2	160:25 161:3,4	278:25 280:20	puts 21:21	268:19 275:1
236:8 270:6	161:8,12,18,21	281:11,15	putting 292:21	281:11 290:15
psd 12:8 14:12	162:4 165:25	282:16 283:11	293:14	290:21 296:19
14:20 16:11,12	166:3 168:6,8	302:24 305:14		297:14,24
17:13,14 19:3	168:12,16	307:12 308:8	<u>Q</u>	305:9 306:4,24
30:17,18,24,25	170:2 171:4	psds 30:21	quality 15:19	309:12 311:13
31:4,15,19 32:5	172:11,20,20	pte 228:3,19	87:9 138:24	questionandan
32:12 33:4,25	174:8,10,12,15	229:25 231:11	139:11,12	10:22
33:25 34:3,8,12	174:17,18,21	232:19,20	140:10 210:21	questioning
35:1 36:12,24	174:25 196:7	public 38:17,19	211:14	12:21 296:9
37:1,8,10,13	198:7,8 204:3	51:4 107:20	quarter 59:11	304:23
37:15,17,22,23	209:14 211:10	108:14 109:16	question 11:10	questionnaire
37:24,24 38:4	211:20,24	110:7,14,23	29:8,9 37:4	178:4,11,17,23
38:11 39:5,8,22	212:8,23 213:5	111:9,13,17	41:24 50:13	186:22 218:7,8
39:22 42:18,22	213:8,11 215:9	162:10 222:8	58:4 59:1,18	218:12
43:5 44:19,20	215:14,18,21	233:22 299:2	61:8 70:2 72:8	questions 8:14

Case No. EF-2024-0021 Schedule CME-r8, Page 118 of 136

				Page 353
8:23 10:22,23	randolph 32:2	226:25 231:1	304:22 305:7	293:11,14
10:24 11:1,4	random 45:14,22	238:5 239:15	305:11	294:1 302:25
23:7,18 39:24	175:9	270:4	receive 91:6	303:3
41:24 42:1 46:3	randy 32:22	real 42:8	119:15 146:24	recommend
47:10 53:5 56:4	107:19 109:16	realistically 56:6	169:20 222:18	267:16 268:5
89:17 125:12	110:8 111:17	realized 146:12	222:23 253:5	recommendation
125:21 126:25	112:3 115:8,24	really 40:20	272:14 283:23	92:16,19,20
131:10 138:10	142:22,24	69:22 284:4,5	received 26:10	121:10,12
144:13 145:21	rate 57:14 75:2,9	realm 168:21	26:21 48:4 90:1	129:24 132:7
146:10 178:6,7	75:10,20 220:6	realtime 314:7	90:24,25,25	225:14
178:13 190:7	220:7,8	reason 54:6 63:3	91:2,10 109:22	recommendati
216:3 217:11	rates 76:10	95:16 102:4	153:9 186:7	46:23 127:11
222:24 232:16	78:15	104:17 114:9	189:24 195:15	recommended
251:13,19,21	rationale 157:2	125:6 126:20	216:22 230:21	40:2
251:21,24	raymond 32:22	154:7 186:5	receives 283:15	reconstitute
252:4,8 259:18	107:19 109:16	207:17,19	receiving 42:23	274:24
262:17 265:8	110:8 111:17	311:17	55:19	reconstruction
269:2 272:20	112:3,7 115:9	reasonable 21:4	recipient 118:15	98:15,21 99:1
288:9,14 291:6	115:24 142:22	21:23 134:10	119:13,18,23	99:21 117:20
291:11,13	raymonds	194:5,18,22	148:14	125:25 176:5
292:8,15	142:24	195:1,10,17,21	reclarify 79:20	182:19 250:11
293:12,24	reached 231:8	200:8 270:12	recognize 49:13	274:24
294:11,13	reaching 214:23	271:1,16	91:19 115:8	record 7:8 9:8
295:17,19	214:23	303:21	147:20 191:12	11:15,20 12:17
296:8,12 298:8	read 21:19 69:8	reasoning 124:2	225:7 254:4,8	19:13 58:10
302:9,13,14	96:18 100:25	reasons 51:5	254:20 256:8	59:12,13,16
310:15,18	126:10 158:17	54:6 96:22	256:21 257:18	62:19 88:24
311:22,23	167:20 172:9	170:12,21	257:19 269:10	106:25 107:1,4
quick 106:23	172:19 173:6,7	224:9 268:4	275:15 276:20	113:17,17,21
quite 49:24 55:4	180:23 218:16	284:25	280:2 284:11	145:25 146:2,5
quote 99:21	266:12 303:3	recall 22:19	285:14 288:5	158:17 161:8
143:10,11	305:25 312:4	85:22 86:13	298:25 299:4	175:4 190:17
289:8,8	313:3	96:20 122:9,11	recognizes	190:18,23
quoteunquote	readily 301:25	149:4 169:13	298:14,20	205:11,11,13
194:5 286:7	reading 25:4	172:1 183:14	recollection 20:5	233:9,13
quoting 187:5	238:11	183:18,20	33:8 46:25 47:2	251:11,14,15
	reads 82:18	184:23 185:2,7	66:22 104:9,18	251:17 262:19
<u>R</u>	99:25 105:8,10	190:13 203:7	131:7 177:11	272:3 292:25
r 2:1 3:1 262:15	125:23 131:12	204:3 207:13	177:20 178:16	293:1 294:6,7
r6 192:19 270:23	132:11 139:8	213:19 233:16	179:7 194:13	310:8,9,12
raised 29:14	143:8 148:9	238:9 252:10	195:25 202:25	312:1 313:5
241:16 294:19	153:17 159:1	273:3 274:13	268:15 292:2	recordkeeping
raising 47:3	165:8 167:8,20	288:13 303:13	292:17,22	192:17 193:14

Case No. EF-2024-0021 Schedule CME-r8, Page 119 of 136

Γ				Page 354	
193:18,19	124:21 179:2	73:22 82:12	118:18,20	87:13 89:9 95:1	
194:1 195:24	179:24 186:22	178:24 179:1,3	119:23 147:15	96:15,21 108:3	
269:3 270:14	200:14 201:21	191:22,24	147:23 148:2,4	108:9,10	
271:1	241:24	196:6 260:16	173:24 176:23	113:13 120:22	
records 39:15	references 119:4	261:4,13,15,18	187:6	129:1 131:22	
117:5 195:12	143:21	261:22 269:16	regional 15:14	144:14 145:21	
199:14 200:2,9	referencing	269:22 272:6	119:20	145:22 151:6	
200:14 201:3	100:6	304:2,6,22	register 62:2	211:21 223:10	
204:17 205:4	referred 39:16	307:3 310:5	263:21 264:3	224:25 242:23	
250:5 251:3	62:20 77:22	reframe 11:4	269:10,15,20	286:9 289:19	
270:22 271:7	245:23 256:22	refresh 20:5,10	286:14,18,19	290:5 294:14	
272:17	265:6 288:17	20:12 21:5	registered 314:6	302:13 314:14	
redesign 237:2	305:1	66:22 194:13	regs 63:24 77:14	relates 275:19	
redirect 4:6	referring 20:13	195:25 292:1	168:6 170:14	288:24 290:15	
291:5	93:11 141:4	refreshed 292:17	171:8 200:3	311:13	
reduce 96:23	151:2 156:20	refreshing 33:8	259:2	relating 31:4	
reduced 314:13	157:14,20	292:22 293:11	regular 29:22	118:25 131:11	
reduction 125:13	158:10 163:6	293:14 294:1	30:2 40:3 42:17	183:12 249:6	
refaat 32:22,23	187:17 210:11	reg 54:3	42:20 43:6,12	288:14	
141:17	239:4 242:2	regard 262:20	174:17	relation 188:12	
refamiliarize	253:15 259:14	294:23	regulations	289:22	
19:9 21:1,16	259:22 260:25	regarding 14:16	13:20 16:5	relationship	
refer 32:17 63:11	277:3,12	14:20 21:3 51:9	33:25 34:20	290:16	
75:7 87:6 91:3	286:14 308:1	52:10 104:14	53:19 149:6	relationships	
195:24 245:17	refers 62:12 73:4	123:1 130:1	156:15 168:6	242:24	
245:21 257:11	88:4,8 97:11	160:22 161:18	179:6 259:2	relative 182:24	
257:14 265:9	101:1 149:9	161:21 169:15	299:15	183:4 314:16	
277:9 288:9	165:18 187:14	180:11 182:3,7	regulatory 53:20	relativity 183:8	
309:2	192:1 205:23	185:12 188:18	217:15 220:15	relevancy	
reference 22:12	248:9 286:18	197:8 199:22	224:12 286:6	200:24 201:2	
34:19 53:12	287:4	201:14 204:21	299:12	202:2	
63:24 101:20	reflect 19:13	222:2,14 241:6	reiterated 200:6	relevant 98:5,9	
145:8,11	113:21 192:4	242:18 252:5	reiterating	98:21 99:3	
154:16 155:15	240:20	256:13 257:8	199:24	133:2,5 160:22	
157:10 160:21	reflected 20:14	272:20 295:17	relate 108:8	208:25 218:14	
179:8,19	92:13 213:8	regards 40:3	114:24 123:5	218:20 278:18	
191:25 192:10	222:3 228:2	189:8	128:4 141:11	reliance 311:15	
192:12 193:5	233:22 234:5	region 3:2 5:25	151:11 234:24	relied 86:8	
236:10 254:23	reflection 182:9	8:8 21:14 22:14	270:12	117:25 118:3	
256:25 257:12	reflesh 292:1	29:25 40:6,18	related 21:8,11	134:19 205:2	
301:20,25	reform 21:22	41:18 43:24	23:6 27:7 28:16	255:5 273:8	
306:3	63:11,13,15,22	44:1,4 45:6	28:20 53:5 59:4	relocation	
referenced	63:23 64:6	47:13,13	59:19 83:14	138:14,19	

<u>г</u>				Page 355
139:9	296:6	158:11,14	311:18,19	100:22 102:14
rely 52:18	repair 21:4,14,18	159:7,13	representative	108:8,13
110:19 122:23	157:11,17	160:10 164:21	156:10	110:13,18,19
133:19 146:25	158:2,14,23	165:9 166:17	represented 13:1	110:20 111:4,7
161:22,24	159:6,12 160:9	167:9,11	289:7	111:8 113:2,22
201:23 214:16	165:11 166:18	168:19 169:9	representing	114:4 116:4,10
244:18 255:5	167:22 168:4,5	169:16 172:3	191:2 313:13	121:12 123:12
267:17 275:9	168:7,18 169:9	179:16 182:13	request 43:14	130:6 142:15
276:6 277:18	169:15,19	182:16 197:8	90:12 91:9	144:20,23
280:8 285:1	170:20 172:3	198:18 208:14	127:5 142:10	145:12 152:14
295:24 298:21	179:16 188:10	237:1	185:21 190:4	154:1,9,19,20
299:21 300:14	189:11 249:17	replacements	203:9 234:22	154:22 155:24
306:2	262:13	139:25 140:8	246:24 250:16	156:12,18,21
relying 85:22	repeat 29:8 61:8	replacing 95:9	311:16	157:3,8 161:5,9
161:10 167:2	70:2 81:4	95:23,24 96:11	requested 127:2	164:10 168:9
167:23 251:3	175:21 177:1	97:5 116:24	157:16 169:17	169:2 174:24
remain 193:20	rephrase 11:5	123:5,13 124:1	192:3 199:14	175:7,10 176:3
193:22	72:8 297:2	124:2 153:3	200:9 205:4	198:12 199:13
remainder 91:21	replace 97:10	182:21 237:7	227:7 311:4	208:23 217:15
remains 192:23	117:12 123:18	237:13 247:2	requesting 91:8	218:9 234:3
remand 192:21	124:7 134:23	report 5:25 15:7	116:25 143:25	237:16,25
192:23 193:17	135:3 182:17	15:14 108:12	197:7 236:5	238:22 247:4,7
193:20,21	198:13 207:20	108:19 110:3,9	247:1	249:24 250:4
270:8	207:23 236:22	110:17,25	requests 42:25	250:11,24
remanded	237:4 241:20	112:9 173:24	91:10,22	265:2,9,11,23
192:16 193:14	277:4	174:1 176:20	195:19 282:1,3	266:2,4,11,16
270:7,11	replaced 97:20	218:11	298:21 299:2	266:22 267:14
remember 58:25	109:10 117:6	reported 16:8	301:16 302:6	267:17,22
147:24 170:11	124:10,21	31:8 239:16	require 30:20	268:17,22
181:2 188:22	152:15 207:12	reporter 3:9 7:4	99:12 102:8	270:22 271:6
194:14 203:1,9	207:23 208:13	8:17 36:3 77:25	144:5,20	271:22 272:7
209:18 214:5	277:23	195:4 312:2	156:15 208:19	272:16,20
279:8 301:12	replacement	314:1,7,7,8	required 5:7	273:3,7 274:13
remembering	95:2 100:17	reporting 3:11	32:18 33:5	275:11,16
188:22	101:10 103:3	reports 24:11	38:18 39:16,22	276:7 278:4
remembrance	116:5 126:5	represent 9:3	39:23 43:23,24	280:3,13,22,23
175:8	127:9 134:15	183:24	45:3,15 46:4,7	281:9,19 282:4
removal 75:8	138:14,19	representation	46:10 54:22	282:13 284:16
remove 75:11	139:9 140:3	277:19	59:21,24 60:2,6	284:20 285:14
270:5	148:10,23	representations	60:8 65:25	298:9,15,21
renner 3:4	149:2 152:14	273:8,9 275:10	66:12 87:8,20	299:1,11 311:4
reopen295:13	153:17 157:11	276:7 280:9	89:8 92:19	311:6,14
295:16,22	157:17 158:2	285:1 311:16	94:19 99:2	requireds 283:9

Case No. EF-2024-0021 Schedule CME-r8, Page 121 of 136

-				Page 356
requirement	95:15 108:21	responsibility	48:14 49:1,17	240:14 244:1,8
37:25 44:16	110:13 113:14	115:21	51:3,23 53:24	244:17 246:8
57:2,4,5,6,7,13	123:12 125:4	rest 141:3 228:9	58:5 60:5 64:10	246:11 266:2
66:18 68:10	130:6 142:3	restate 84:17	70:20,22 85:12	266:10 268:24
74:21 99:6	145:15 179:24	168:13 184:4	85:19 86:7	283:24 291:22
194:25 305:23	184:21 185:7	201:23 231:13	87:24 88:6 90:5	307:8 312:3
requirements	197:11 198:13	268:19	90:16 96:16,21	reviewed 19:19
14:17 16:12	212:8 216:25	restated 204:14	101:5 102:20	20:11,23 21:1,3
17:9 19:1 36:8	217:1 223:12	restating 185:22	107:15 108:4,5	21:8,15,19,19
36:11 37:22	237:17 240:24	238:18	109:6 110:2,21	21:22,22 22:11
51:9 56:20 58:2	301:4 310:17	restricted 229:24	110:23 111:1	24:3 26:6 44:3
58:6 65:10 85:7	respective 88:15	restrictions 30:2	112:25 115:3	45:11 48:11
86:24 87:20	242:19	result 79:1 97:10	117:3 118:8	50:12,15 60:2
105:2 216:25	respectively	110:23 117:18	120:13,21	92:17 108:17
248:23 252:13	41:3	125:24 126:11	122:22 127:23	109:4 111:12
262:22 264:13	respond 27:24	126:14 193:24	128:16 130:25	117:8 120:16
269:3 270:15	114:11 187:8	199:8,19	132:4 133:10	121:11 122:6,6
271:2 278:25	188:15 189:16	207:11 221:20	140:24 141:11	123:16 128:1
299:13	256:13 266:25	234:4 238:13	143:8 150:21	150:25 151:22
requires 69:5	281:25 282:3,9	260:10 271:22	151:10,22	163:2 168:25
90:3 91:7	responded	273:13,15,24	152:25 157:4	175:11,17
requiring 65:23	195:18	274:23 275:2	162:23 164:15	188:7 210:9
research 42:2	responding	284:25 290:18	166:12,13	215:23 240:15
285:6,6	137:16 148:19	308:2	169:20,21	240:17 246:16
reserve 214:9	178:17 185:21	resulted 226:8	173:12,15	246:17 268:12
295:12,16,21	241:15,19	226:13 230:10	174:1,4,4,6,7,9	268:16 291:14
296:6	246:24 266:22	results 239:1	174:11,14,20	297:7,17
reserved 7:6	268:6 281:19	retain 21:11	174:21 175:6,6	302:11 303:4
reserving 312:3	responds 270:7	retired 18:14	175:9 176:19	reviewer48:11
resource 40:6,7	response 27:25	112:8 129:14	177:16,18	93:1 102:24
151:21 245:18	28:1,2,5,14	191:19	178:4,4 180:16	212:21 215:17
resources 8:1,11	90:3 91:8	revealing 291:19	184:9 192:21	235:17 307:7
9:20 10:12,15	108:16 114:9	review4:22 12:3	196:21,23	reviewers 53:22
12:1 13:8,18	114:10 134:11	18:5 20:18	197:2 202:16	87:6
149:22 164:9	142:9 188:17	21:21 25:24	203:16 207:8	reviewing 19:8
225:7 246:23	189:13 234:22	27:12 32:9	208:1,13,15	40:1 86:5 135:8
259:5	241:24 246:19	37:12 42:24	209:8 210:6	156:14 177:23
respect 10:15	295:19	43:14,16,23,24	212:14 213:13	178:16 249:15
26:17 30:12	responses 178:4	44:1,6,8,11,18	214:11,16	reviews 44:12,13
31:15 32:8	178:6,8,10	44:22,25 45:1,1	215:18,19	44:14,23 45:12
36:16 38:3,20	179:17	45:4,7,14,16	216:12 223:5	46:1,2,25
80:18 82:23	responsibilities	45:21,24 46:14	227:11 234:14	174:12 177:13
86:17 94:14	13:15 16:3	46:20,23 47:7	236:1 240:7,9	revised 49:19

				Page 357
76:18	265:25 282:11	139:8 143:10	153:20 154:6	156:2 162:9
revision 263:23	282:19 295:13	143:14 144:6	157:18 158:10	165:25 170:13
revisions 63:5	295:16,21	148:10.23	158:11,12	170:15,15
82:12 191:22	296:6,7,9,9,21	149:2 150:3,7	160:6 186:16	179:3,3,8
263:24	299:19,23	150:13 153:18	190:1 191:22	191:24 192:5,9
right 11:9 13:24	304:1,8,11,18	154:1 157:10	192:22,22	193:1,2 194:23
19:13 20:15	305:6 306:17	157:17 158:2	193:1,19	194:24 196:6
31:18,24 32:4	307:2,20,21,22	158:13,22	194:15 195:1	200:11 224:6
32:11 41:7 49:5	308:14,17,21	159:6,12,14	195:10 261:22	259:11,13,16
49:19 50:5 53:3	308:24,24	160:9,22 162:8	263:25 264:12	261:15 263:3
69:22,24 70:6	309:10,11,15	165:11,17,21	269:16,21	263:13 266:23
71:8,12 72:14	311:1	166:2,10,13,18	270:6,7,9,22	266:24 267:2,4
72:15 73:24	righthand 254:24	166:24 167:22	271:7 286:18	268:3 304:17
76:21 81:10,12	310:25	168:4,5,7,18	286:21,24	309:24
81:12 82:25	river 198:4	168:22,25	287:2 303:25	ruling 192:14
83:9 84:24	rmrr 158:2,6	169:8,15,18	304:2,6,22	193:9,12
99:20 100:11	162:4 166:20	170:20 171:20	307:3 310:5	running 70:11
102:18 103:24	168:12 171:4	172:2,11,17	rulemaking 14:4	runs 49:2
109:18 114:23	171:12 180:7	173:2 179:15	136:17	
121:23 127:3	180:12,20	188:10 189:10	rules 4:25 15:18	<u> </u>
131:19 134:2	182:7 183:12	190:15 249:17	21:21 34:9,12	s 2:1,5 3:1 7:13
134:25 135:17	184:21 185:7	255:13 257:25	34:12,17,18,19	8:2,7 126:22
136:5,13	185:12,21,23	262:4,7,13	34:22 35:11,12	142:17
138:19 148:7	186:2,13,18	276:2,11,14	35:14,17,20	sake 287:5
152:16 159:21	187:11 188:8	302:10,23	36:7 37:19,22	sales 91:10
160:23 163:5	189:3,16,19	row220:25	37:25 53:15	sam 3:16
164:20 173:11	249:3,6,8	rpr 314:22	60:16,20 61:5	satisfactory
174:19 176:22	road 9:14	rule 8:10 21:23	61:11,14,15,20	207:4
181:5 182:22	rodriguez147:20	41:25 60:21,22	62:5 63:1,5,8	satisfied 161:17
182:25 183:9,9	147:22	60:23,24 61:3	63:21,22,23	save 302:4
183:24 193:16	roger 32:2	61:23,24 62:8	64:2,4,6,14,15	saved 50:1
196:15 200:22	role 38:3,4,6,7	62:11,12,24	64:18,23 65:9	301:23,24
205:20 207:21	99:11 148:7	63:3,11,14,15	65:15 66:11,19	saw155:15
209:24 217:16	241:11 258:18	64:1,9,10,18	67:11 72:1	saying 156:4
218:5 219:7	room 45:14	65:24 67:18	82:12 87:7,19	159:25 160:4,4
221:4,7 227:21	211:23	73:8,14,22	87:24 88:11,12	166:16 182:16
229:4 231:18	rotor 236:7	82:12 85:8 87:7	99:10 100:19	204:11 243:24
232:1,1 233:7	roughly 261:19	88:5 100:2,5,8	101:18 136:15	282:2 293:24
233:19,24	282:3,19	100:13 101:16	136:16,23	296:8,21
234:11 237:12	routine 21:4,8,14	135:18 137:17	137:3,6 143:16	says 68:16
242:8,11	21:17,20 22:17	138:18,22	143:17,20	108:12 112:1
253:20 255:23	27:11 62:16	139:2,22	145:18 153:22	114:8 116:9
259:24 264:5	138:13,13,18	143:12 145:11	154:2 155:18	117:17 132:18

Case No. EF-2024-0021 Schedule CME-r8, Page 123 of 136
				Page 358
133:20 140:3	286:5 289:10	15:4,6,16 16:2	276:4,10,24	110:19 117:17
149:13 157:25	291:2 292:25	33:4 87:7,8,18	277:1,16	125:23 126:10
159:19 160:6	section 15:13,17	88:9,14 141:25	278:10 279:17	131:12 132:11
178:22 228:12	15:18,19,21,22	177:15	284:9 285:13	143:8 148:8
236:24 237:7	16:1,3,7,10	sector 27:12,12	285:25 286:2,5	149:9,13
238:12 250:2	17:5 18:2,5,12	27:15,16,18	286:14,19	153:14,15
264:7 270:20	18:21 21:15	see 44:24,24	288:11 289:8	165:8,18 167:8
273:12 276:25	22:8,22 24:3,7	49:4,20 65:25	289:12,16	167:19,20
278:10,14	24:16 30:19	66:25 80:14	seeing 98:10	192:13 199:18
311:11	31:6 32:20,21	82:20 84:3 85:5	175:18	226:24 231:1
sbonebrake 2:18	32:24 40:17	87:10 94:7	seeking 276:7	238:5,12
scenario 80:6,21	41:4,9 45:19	95:16 96:8	seen 25:17,21,22	242:13 248:8
308:13,18	53:9,13,13,15	97:23 98:16	25:23 107:18	269:25 270:2
309:10	65:1,2,6,8,13	100:3,7 101:2	128:10 134:14	270:19 273:12
scenarios 75:14	65:14,24 66:9	108:16,17	141:2 147:12	274:22 275:24
schiff 2:14 7:19	66:10,15,16,23	109:16,25	173:20 191:6	276:24 277:11
7:21 9:2	66:24 67:5,23	111:23 113:11	246:17	286:5,6,13
schiffhardin 2:18	78:4,8 86:19	115:15 117:9,9	selfexplanatory	289:8,10 309:5
schneiders 3:16	87:4,4 88:3,4,4	117:20 118:10	15:17,21	separate 145:14
scope 29:4 99:8	88:7,8 90:4	118:15 124:22	132:18	154:10 174:25
164:17,19	91:7 93:15	136:8 142:22	semantics 70:23	175:1 211:24
173:4	112:6 115:11	143:12 145:6	155:7	212:4,6 241:22
screen 130:12	121:9 122:18	148:11 149:11	send 38:11,16	303:22 304:4
se 35:11 244:15	129:22 136:1,4	150:24 154:15	39:10,10,12	313:7
sears 2:15	136:4,20 137:2	157:11 158:3,7	42:1,8 45:13	separately
second 77:18	137:5,25 138:1	165:11 167:11	119:11,17	293:22 295:8
82:18 84:21	138:7 139:8	167:25 175:3	266:4,7,9 267:3	304:2
95:17 99:24	141:24 143:2	176:14 177:5	285:2	separation 30:16
105:7,8 117:14	143:15 144:4	178:24 182:19	sends 279:20	september 1:14
117:16 118:14	144:13,14	187:22,24	senior 30:17	1:17 7:9 18:15
121:2 125:19	145:9 147:24	192:5,19	sense 54:22	197:4 300:7
131:11 149:9	155:17 156:1	193:10 205:25	265:19	312:1
151:14 153:11	156:14 163:12	220:8 222:22	sent 38:14 39:18	serial 108:1,2
157:9 158:25	169:18 178:13	223:6 228:18	39:23 119:19	series 111:18
177:6,6 187:14	179:15,17	229:21 231:5	174:17 183:12	252:8 259:17
205:11,23	197:16 219:25	231:24,25	183:18 185:22	262:16 265:1
212:9 215:2	224:6 225:25	236:12 251:13	222:9 230:14	service 107:20
217:16 225:13	225:25 226:2	254:10,23	241:19 257:21	108:15 109:16
231:1 238:2,5	235:7 241:3	256:25 264:6	266:2 267:17	110:7,14,24
244:5 248:1,8	247:13,25	269:12,20,25	sentence 66:24	111:10,13,17
260:9 264:2,7	252:14 281:20	270:9,19 273:4	82:18 87:5	services 275:17
269:18 270:1,2	309:3	273:12 274:19	99:24 100:25	sessions 40:24
273:11 276:25	sections 14:2	274:22 275:24	105:8,10	42:10,18 43:6,8

Case No. EF-2024-0021 Schedule CME-r8, Page 124 of 136

				Page 359
set 57:8 95:1	shes 93:24	313:11	258:6,12,17,19	25:18 33:17
111:9 121:24	112:22 167:2	signed 32:18	259:2,6,6,14	36:3 71:17
128:5 130:4	225:25	91:17 92:11,15	259:15 261:4,5	143:19 150:4
136:22 137:25	short 11:22 12:3	93:16 98:1	261:8,22	166:4 171:14
138:1 151:12	12:8,8 13:12	100:16 125:20	263:23 268:25	195:4 202:22
154:12,25	59:11,16 107:5	129:23 151:23	269:3,16 271:5	214:21 218:5
156:6 180:11	190:16 233:7	161:15 191:11	272:6	231:12 250:21
183:12,15,19	shortcut 67:21	215:10,12	sipapproved	253:24 255:10
186:15,21	shorthand 78:24	225:20 233:19	35:16	258:9 261:6
187:10 188:19	show 10:2 48:24	241:2	sips 14:5	269:19 277:6
190:10 227:17	showed 272:21	significance	site 20:24 50:19	278:9 280:1
240:21 242:13	279:12 280:3	92:24 201:15	50:21,22 51:6	283:3 287:9
249:5 297:15	285:15 288:3	202:1 203:21	51:13,15 52:3	306:12
302:18	showing 60:14	203:22 217:16	86:9 104:22,24	sort 267:23
sets 99:10	88:19 127:15	221:8 224:13	258:3 265:16	sought 236:4
156:16,19	140:16 162:18	significant 9:5	287:22	268:17,21
157:1 189:18	167:24 223:20	12:4 55:20	situation 75:7	273:9 274:18
244:24	234:11 240:2	61:10 62:3	99:3 224:9	275:10,16
setting 28:25	246:5	118:2 131:16	274:6	sounds 24:17
176:20 302:17	shutdown 125:5	220:1 260:10	situations 76:1	29:22 132:1
seven 40:23	shutoff 96:11	276:3	265:24	135:14
53:13,13 88:10	sibley 5:7 108:9	signifies 257:3	six 15:8 16:24	source 12:3
88:11 284:15	113:15 130:7	signify 255:1	24:21 32:1	21:21 32:8
310:13	130:20 131:3	signing 122:7	55:13,19 56:6	36:14,18,20,21
shading 218:6	275:19	127:3	245:5,7	36:23 37:2,6,8
shape 130:11,16	siemens 237:9	similar 108:23	sixth 201:10	37:15 45:2
shaping 132:20	237:13	121:8 137:5	202:8,14	55:16 58:1,2,8
share 38:18,19	sign 32:15 92:20	181:15,16	skip 276:19	58:12,15 59:4
42:14 51:20,20	122:12,15	257:19	285:8	65:11,11,16,22
56:7	152:1 240:25	similarly 127:2	slag 95:25	65:24 66:5
shared 39:4	241:5 312:5	simple 55:1,1	123:24	67:13,15 68:12
sheet 21:22	signature 7:5	simplest 83:24	slightly 205:22	69:4 71:6,6
31:20 90:13	91:19 115:7,8	simplified 84:2	small 77:23	72:4,5,24 77:6
92:4 93:2	121:3,3 129:16	105:19	142:4 183:3	77:7,11 78:19
108:20,23	129:18 142:21	simplify 105:5	232:5 281:11	81:16,18 86:14
128:18 176:25	142:25 151:15	simply 35:13	smaller 182:25	94:18 95:6 98:2
178:21 194:15	151:17 163:10	71:1	218:10 280:24	99:17,17
313:7	184:15 187:24	single 135:8	smith 41:16	105:16 113:24
sheets 21:20	191:12 197:12	singular 117:19	sole 63:3 287:10	114:8,9 116:16
283:5	197:14 213:2	sip 34:12,15,17	287:13	118:10 123:8
shell 112:23	215:5,6 225:6,8	35:6,16 160:6	somewhat 106:7	130:23 134:23
152:19 157:21	235:4,4,6 247:9	192:8 193:25	soon 12:20 90:1	135:2 137:8
158:17 162:7	247:11 312:2	226:1 252:18	sorry 10:7 21:9	140:12 143:25

				Page 360
144:2,5,14	70:25 73:9	255:18	spend 284:1,19	staffing 86:1
153:10 154:7	82:10 99:10	special 228:6	311:12	staffs 127:11
154:19,21	104:14 118:4	specific 14:25	spent 128:25	132:6 134:9
155:4,17 166:8	118:12 146:24	20:13 30:16	133:9 134:1	stage 90:15
174:12,14	169:3 170:16	37:16 42:21	197:25 284:2	stakeholders
176:5 178:3	170:25,25	46:4 47:1 51:14	284:15 304:19	196:6
189:9 198:5	179:11 186:17	58:25 74:14	spreadsheet	stamp 49:4 108:2
200:7,20 203:6	190:3 202:15	86:13 119:5	223:11	109:19
203:9,13,14,17	203:7,24 204:4	131:9 135:10	spreadsheets	stamps 301:10
203:17,25	205:2 218:10	149:5 176:15	118:11 223:11	stand 293:23
205:4 206:16	245:14,17,22	196:8,10 203:7	springfield	standard 99:18
212:3,4,14	252:20,22	203:9 204:4	234:21 235:1	119:11,17
213:13 215:17	261:4,15	222:4,24	280:6	122:13 208:18
217:21,25	262:21 264:12	265:14,15,24	ss 314:3	243:10,13,20
218:8 224:8,15	264:18 265:12	265:24 268:3,4	st 15:13,15 44:7	243:21 245:25
224:22 228:20	265:24 270:20	280:15 290:15	44:7 94:3 214:4	310:3
228:22,25	271:5 277:18	300:10,12,24	staff 21:13,14,15	standards 99:10
229:2,3,6	280:8,23,24	301:1 302:25	31:6 40:18	245:13
231:16 233:2	281:10,10	specifically 13:9	41:14 42:24	stands 218:6
236:14 238:18	285:1 299:4,6	22:8 28:12	45:10,13 50:7,9	stansfield 41:8,9
239:10 245:12	299:12,21	39:21 64:4 73:5	90:13,14 92:16	104:11
248:20 250:16	300:15 301:4	135:24 155:25	92:17 93:3	start 10:18 16:16
252:12,23	310:4,4 311:16	182:2 195:21	104:10,17	24:20 54:11
254:16 257:6	southwest 236:8	202:4 204:5	105:4 112:10	210:14 213:23
263:4,4 264:19	236:12,14	245:1,11	112:16 114:7	226:3 284:6
265:14,15,16	span 266:11	specificity 196:5	122:1,18,23	started 24:21
266:16,22	speak 61:13 63:7	303:5	128:22 129:3	27:18 44:11
267:17,18,19	64:10 113:24	specifics 28:12	129:23 149:23	61:20,25 109:1
271:21 272:7	135:10 136:18	58:23 61:13	149:23 151:23	109:3 148:22
272:13,16	137:18 149:7	76:1 81:1	152:3 156:8,11	169:11 213:22
273:9 275:10	158:15 161:13	161:13	161:11,23	starting 18:7
276:7 287:20	166:21 180:4	specified 58:14	166:12 169:17	66:11 109:6
296:22 297:8	204:5	speculate 222:21	169:18 177:11	136:24 163:25
297:13,23	speaking 170:8	speculation	177:14,14,22	167:5
298:21 300:10	speaks 65:18	103:6 106:5	177:24 178:13	starts 49:2 53:22
300:24 306:9	66:3 67:7 69:6	273:18 275:4	202:11,11	82:15 131:11
306:13,19	78:6 83:2,16	276:16 278:1	204:13 225:14	state 1:21 7:17
311:4,18	95:18 96:6,25	283:19 294:9	235:19 244:16	9:7 12:13 13:19
sources 14:21	98:11 111:21	306:22	245:18 253:6	13:23,25 14:5
16:4 30:12,13	116:7 123:19	speed 287:5	262:13 281:18	15:18 16:5
32:10 36:9,25	138:25 139:4	spell 9:7 12:17	281:20,25	28:18,25 34:9
37:12,13 45:21	139:20 142:5	spelled 147:17	301:24 302:2	34:21,21,23
51:7 52:18	144:7 148:16	155:25 162:7	302:12	35:10,12,17

Case No. EF-2024-0021 Schedule CME-r8, Page 126 of 136

Γ				Page 361
38:10 40:19	35:10,13,13,16	steps 90:16	submits 218:9	165:10 166:18
41:11 43:24	42:15 43:25	180:14	submittal 56:1	superheaters
53:19 54:3,3	95:24 126:6	steve 7:18 9:1	166:23 167:3	164:23
63:21,24 64:11	130:10 144:9	293:8,16	submitted 74:3	supervised 18:3
73:12 76:7	171:10 172:4	steven 3:17	92:18 118:8	18:6 122:18
82:12 100:2,5,8	173:1 192:3,14	stinson 1:19 7:15	132:6 143:9	supervising
102:2 143:11	193:21 201:12	stipulated 7:1	163:3 166:25	17:21 215:19
147:25 153:18	209:3,12	stopped 186:9	167:9,18 234:2	supervisor 17:3
153:19 159:1,2	229:14 232:1	store 301:19	244:8 263:23	17:4,18,20 18:1
159:20 161:6	252:2 264:15	street 1:20 2:6	submitting 51:1	216:5 281:23
168:24 170:14	264:21	7:16 9:17	195:12	supplied 167:24
170:15 179:6	stating 132:25	strike 18:9	subparts 136:11	287:21
187:5 189:10	139:2,23	100:15 105:14	138:17	support 39:25
193:1 201:25	159:17 165:17	114:22 133:24	subpoena 4:14	41:23 199:9,12
207:14 208:2	187:20	140:23 143:23	10:9,16 20:9	199:15 200:3,8
208:16 226:1	station 130:7,21	145:20 152:18	96:18 292:7	236:24
252:10,13	131:4 197:9	167:14 174:2	302:6	supporting 28:16
258:9,17,24	198:5,14 236:9	185:10 198:3	subsequent	38:7 223:9
263:5,13,24	236:12,14,17	230:22 238:20	102:25	sure 12:12 27:1,3
286:8 293:18	275:20	241:11 250:23	substantially	27:23 28:2,13
295:4 299:5,12	stationary	261:11	61:6 286:9	43:15 44:14
304:9,13,17	224:22	stringent 64:15	subtract 221:5	58:9 61:10 70:4
314:2	status 42:22	64:18,20,24	221:15	74:19 79:22
stated 116:23	110:20 111:1	strive 55:15	subtracted	89:12 106:25
187:19 198:24	statute 54:3	struck 63:19	220:17	109:1 120:3
227:10 232:3	64:13	struggled 283:21	subtracting	122:13 124:23
statement	statutes 53:19	sturm 41:13	220:19 221:20	126:4 133:3,14
103:10 113:4	statutory 54:2	style 10:22	suggesting	141:25 149:17
118:12 132:7	258:6,12	subject 123:23	154:10	150:9 167:17
132:18 156:20	stay 293:1	144:25 150:13	suggests 37:19	168:14 169:2
159:18 160:5	staying 278:9	155:4,16 169:3	72:17 114:13	170:16 171:6
165:22 166:22	284:24	198:7 214:13	suite 3:13	171:16,24
166:25 181:2	steady 203:18,20	221:13 236:16	summarize	184:5 186:23
182:10 190:8	204:1	248:23 251:20	228:19 255:15	202:12 203:10
198:20 203:23	steam 225:3	257:8 262:21	287:5	203:23 209:6,8
238:16	238:7 247:2	291:3	summarizes	213:17 220:24
states 1:1,5,22	step 77:2,18 81:8	submission	257:23	230:15 232:11
1:24 7:11 8:4,6	83:8,12 84:7,16	54:19 126:18	summary 113:17	232:12 237:6
9:5 11:22 25:9	84:19,20 85:12	126:22	217:8	243:17 245:10
26:2 27:13	85:17 87:14,17	submissions	sunshine 301:16	258:11 261:8
28:19 29:10,19	114:2,3 144:20	127:10 244:8	302:6	262:19 263:7
29:23,25 30:5	154:22 263:12	submit 195:2	superheater	268:19,21
33:12 34:13	stephen 2:12	196:4	164:12,22	272:3 282:18

Γ				Page 362
292:20 293:7	220:23 227:15	251:12 260:13	244:22 245:24	165:25 168:9
296:21 297:2,4	228:4,17 239:4	291:12 293:9	248:15,16	179:10 203:19
297:6 306:3,4	239:12	293:12 296:2	286:10 287:6	203:25 204:9
308:11	tabs 20:7 253:19	300:6 307:23	technically	204:23 206:4
surface 134:8	300:4 301:9,13	308:5	100:12 242:19	206:12 209:3,4
165:17	tad 151:3	talked 23:11	technology 48:15	209:7,8,12,18
surmise 137:14	take 12:20 54:1	24:4 33:8,24	57:17 58:1,14	209:20 226:17
164:4 176:6	59:11 71:7	38:2 51:24	telephone 40:24	226:22 238:25
230:17	79:22 88:22,22	59:20 70:4	41:1,2	239:3 243:5
surrounds 96:1	89:4 91:11 97:5	74:21 77:10	tell 37:20 128:13	250:8 256:10
susan 163:20	103:22,25	92:11 94:15	166:11 175:12	259:18,19,22
164:5 197:22	107:10,12	119:24 133:25	176:4 186:11	259:23 260:14
susans 166:21	111:4 112:25	136:3,6 147:14	213:14	260:17 261:1,3
susie 41:7	113:11 114:5	158:19 183:16	telling 244:6	261:8,14 262:8
166:21	127:18,20	188:23 205:17	293:11	270:21 271:6
swear 8:18	140:17,20	231:14 255:24	ten 17:22 281:22	296:25 303:11
swearing 8:15	143:16 145:25	283:5 296:15	281:25 282:2,8	303:16,19
switched 104:18	147:6,7,9	298:11 302:17	282:19 283:18	304:14,17,20
109:3	150:19 157:21	talking 30:6	287:23	305:11,22
sworn 1:17 8:20	162:20 182:8,9	63:25 83:7	tenant 67:13	306:6,18 307:4
314:11	182:16 190:16	106:19 108:20	tend 30:18	testified 8:21
synthetic 71:7	196:18 210:3,4	135:19 146:22	tenure 54:21	testify 8:13
306:20	223:22,24	155:4 169:7	term 27:4,9,23	testifying 10:14
system 89:12,20	227:10 228:25	182:13 205:20	36:14,18 41:19	12:23
89:23 90:7	233:7 240:5	233:15 279:8	44:2 56:22	testimony
109:2 111:6	248:19 293:22	283:12 304:20	60:24 66:20	108:15 252:5
142:16	295:8	305:13 308:22	67:4 69:11	282:6 292:18
systems 141:5	taken 1:13 7:3	talks 71:22	71:22 77:14	294:2 295:19
141:17 142:1,9	25:3 42:11	tamara 41:13	78:23,24 81:25	307:2 313:5
142:16	111:11 186:25	tasks 16:13	124:24 125:7,8	314:10,11
	218:18 238:12	tax 91:10	168:25 220:14	text 165:3,6
<u> </u>	314:9,12,15	tear 116:20	237:6 248:12	176:19 205:21
tab 253:22 254:2	takes 210:23,24	tech 141:5,17	248:14,16	205:22 213:4
254:4,8,18	270:8 306:19	142:1,9,16,16	termed 148:7	thank 9:13 33:23
255:10 256:4	talk 23:9,25	technical 122:22	terminology	48:17 90:17
256:18,21	29:19 31:12	122:23 129:23	124:24	124:16 135:24
257:10 263:18	40:21,22 47:21	131:19,25	terms 11:21,21	152:11 163:9
263:20 269:7,9	89:11 96:9	132:6 134:9	31:12 144:19	207:2 211:16
292:5,5 300:6,7	99:21 136:7	151:23 156:7	158:22 159:17	249:21 256:4
300:22 301:15	138:6 144:18	161:11,22,24	260:21 307:7	263:17 272:5
table 10:6 165:6	153:14 165:3	163:18 204:13	307:16,18	278:9 279:2,23
167:20 217:4	177:25 202:11	216:11 243:1,4	test 63:6 64:3,12	288:2 290:25
217:12 220:12	205:16 231:14	243:9,19 244:9	159:6,14	291:4 298:6

Alderson Reporting Company 1-800-FOR-DEPO

Case No. EF-2024-0021 Schedule CME-r8, Page 128 of 136

				Page 363
311:24	165:18 169:4	250:8 251:10	110:18,20	287:20
thats 10:3 13:12	170:10,21	252:11,16	111:5 114:7,19	thickness 96:4,9
14:11,18,24	171:10 173:3,4	253:18,23	118:3 119:5	96:10,10
15:13,17 19:4	174:24 175:1	254:17 256:7	121:3 124:13	thing 110:16
20:15,17 22:4,5	177:5,7 178:1,9	256:24 257:5	124:21 133:8	149:15,16
23:20,23 25:4	179:3,7,12	258:4 260:8	151:15 153:14	166:12
26:8,23 27:23	180:17 181:14	261:20 263:22	156:5 157:10	things 42:13
29:4 30:23	182:10,15	264:1 265:25	157:25 160:19	46:24 50:25
31:10 32:7,22	183:4 184:14	266:3 269:13	161:13 163:25	62:15 69:3
33:6 34:2,7,10	184:15,22	270:10,24	167:7 168:6	149:5,18,25
34:25 35:18,25	188:1,12 191:2	271:15,20	175:11 178:5	168:22 171:25
36:2,10 38:1	192:11,11	272:18 273:14	179:23 180:3	244:17
39:20 41:7	194:3,12,16	274:20,25	188:23 193:5,5	think 11:10 20:5
43:15 48:17,25	197:18,24	275:21 277:3,5	197:12 204:25	21:10,25 27:22
50:5,20 51:11	198:2,10,15	279:9,18 280:7	204:25 205:8	33:8 36:18
52:4 53:4 56:12	200:19,23	282:10 284:17	210:20 212:9	39:16 40:8
56:17 57:24	201:6,21 204:3	285:16,19	214:14 215:5	41:18 44:9
61:4 64:19,25	204:17,18	286:12 288:16	216:14,14	48:20 56:22
66:21 68:1	206:15 207:17	289:1,6,17	222:5 224:17	57:13 64:4 70:4
70:16,21 73:2	208:6 209:25	290:21 291:2	225:5 229:13	74:21 76:5,7,17
73:11 74:22	210:19 211:1	292:17 293:13	235:3 236:6,10	77:22 80:25
77:4,17 82:4	212:7,15,18	293:25 294:3	237:23 239:13	86:21 93:24
84:15 85:6,12	214:16 215:8	294:12 295:15	243:19 244:10	94:5,15 104:16
85:17 89:10	216:22 218:1	296:5,8,17	260:6 281:22	113:15 114:21
90:19 91:16,24	219:4,6 220:9	297:17,22	283:1,2,10,11	132:15 138:10
92:9 93:14	220:22 221:2	298:23 299:20	287:6 294:8	141:2 143:18
94:20,23 98:20	221:10,14,19	301:11,17	296:5	145:21 148:1,9
100:10,20	221:23,25	303:17 304:15	thereto 314:17	152:10 174:16
103:20 106:15	222:10,12	307:16 308:12	theyre 30:19	179:6 180:24
106:18 113:8	223:16 225:9	308:12 310:7	44:23,25 46:1	181:1,24 182:6
115:10,16	225:12,15,18	310:19 311:10	55:23 116:24	182:10,15
120:18 124:14	226:11,15	thereabouts	116:25 130:16	183:2,4 187:5
131:25 132:25	227:3,19,22	171:3	149:24,24	191:23 194:16
136:8 137:11	229:8 231:23	thereof 85:23	156:8 157:20	195:19,24
139:4 144:23	231:24 233:6	theres 11:3	170:13 172:15	212:12 213:15
145:17 149:25	234:7 235:14	37:24 46:25	175:1,15	215:9 216:15
149:25 151:8	236:19 237:19	47:5,9 49:4	187:17 207:14	218:4,5 228:10
152:6,17,22,23	239:22 240:23	53:9,20 56:3	226:14 237:7	232:13,25
153:20 154:3	241:4,10 242:4	68:20 73:9	237:13 246:25	246:15 256:5
154:11,22	242:15 243:8	74:20 87:15	265:19,19,23	265:22 270:2
155:7,10	245:18 246:1	89:23 92:4 96:2	265:25 282:15	273:2,3 281:2
157:19 160:6	247:20 248:11	98:7,15,15	296:23	281:22 284:8
163:14 164:14	248:25 249:4,7	108:13 109:24	theyve 44:15	290:21 293:8
			-	

Case No. EF-2024-0021 Schedule CME-r8, Page 129 of 136

				Page 364
294:3,15 295:5	13:6 23:11	188:8 190:1,4,5	253:17 256:23	311:11
295:8 296:19	129:4,5 134:19	191:17 209:1	265:5 291:13	traffic 246:17
300:3 308:19	time 7:9 11:14	213:10,17,20	291:23 292:11	training 169:14
thinking 76:2	17:19 18:4,17	213:23 214:1	292:15,18	169:18 170:21
94:7 158:11	18:24 22:23	225:19 232:17	294:3,6 295:10	171:11
third 82:15 115:6	25:5 38:18,23	235:6,10 241:2	311:15	transcribed 7:5
117:16 121:1	42:24 44:7	241:5,21	todays 7:9	transcript 4:10
125:23 131:12	45:10 48:8 50:5	247:16 248:17	todd 97:23	10:20 312:5
143:7 149:13	50:7,9 51:17	250:21,24	124:17	313:4,8
179:13 226:24	53:9,17,20,23	251:20 266:11	tolbert 97:23	travel 30:2
228:3 249:1	53:24 54:2,4,9	271:4 284:1,2,4	124:18	tried 19:9
250:8 269:19	54:9,16,22 55:6	284:19 285:5	told 162:9	tries 228:9
290:21 309:5	55:18 61:15,18	286:22 290:21	tom 32:1 124:17	trigger 37:8 43:5
thomas 95:3,6	61:23 63:25	296:4 299:10	ton 220:2	66:18 68:10
101:11,23	64:6 70:11	302:1 304:4,16	tons 36:23 217:8	84:1 99:18
116:5,16 117:6	82:11 86:2,3	304:19 308:8	221:1,3,15,17	137:8 154:5
123:6,8,13,17	91:9 93:15 95:7	times 30:3 39:9	222:25 223:9	156:1,3 157:6
thompson 97:21	98:24 100:24	49:25 86:4	tool 52:12	160:14 161:12
101:11	102:12 104:22	114:11 268:8	top 105:7,8 109:7	204:3 278:25
thought 11:19	109:10 112:20	296:20	117:14 125:19	281:11 307:12
52:2 98:8	114:15,18,18	timothy 2:21	148:8 149:10	triggered 37:23
126:25 295:23	115:12 116:17	tippett 32:1	205:21 264:3	37:24,25 99:14
296:20	118:18 121:20	title 17:4 18:4	281:15 283:2	145:3,3 161:4
three 31:7 43:25	122:10,19	45:1 112:5	topic 20:14 21:16	172:11,20
75:14 76:6	123:9 126:3	141:25 176:5	22:6 189:7	198:8 209:14
119:19 153:6	128:16,17,19	178:3 215:3	245:3	221:22 236:18
180:5 218:10	128:20,22	today 7:14,19	topics 10:11,15	251:5,9 272:9
269:24 281:21	129:8,11,22	8:13 9:4 10:10	19:10 21:4,5	triggering 156:8
281:21 282:11	132:5 133:9	10:14,21 11:18	24:4 43:2	tripping 307:16
296:20	134:13 136:23	12:24 13:1,4	150:11 245:21	trouble 245:1
threepage	137:4,14,18	19:5 20:20	252:25	297:7
103:21	147:24,24,25	23:10 24:1,5,24	total 111:23	true 37:11 56:13
threequarters	148:21 149:23	25:25 36:15	112:1 182:4,9	69:3,5 74:24
184:2	149:24,24	50:16 107:17	182:12,17	94:17,21 103:2
threshold 84:9	151:1,21	111:14 115:4	281:4 283:11	111:16 126:20
221:9 227:13	157:18 159:2	117:9 120:15	284:15 311:10	304:14 311:17
308:9	160:2,18	123:16 127:25	touch 174:9,15	313:4
thresholds 36:22	161:17 162:1	131:2 141:1	tower2:15	trust 295:24
203:22 217:17	163:13,15	150:23 162:23	track 89:25	try 10:25 11:4,20
throughputs	171:8,17,17	171:10 184:10	128:17,17,20	12:13 20:9
219:11	174:13 177:17	210:8 223:25	tracking 53:10	57:11 72:10
tied 68:18	178:15 179:5	234:16 240:11	90:13 108:22	76:25 119:24
tim 2:25 7:24	180:9 186:1	246:10 252:5	109:2 283:5	168:14 266:25

				Page 365
302:14	288:24	269:24 281:8	18:8 27:9 32:4	40:11
trying 10:20 97:5	turbines 140:4	300:3	70:22 89:13	undertaking
106:7 171:24	224:25,25	twopage 191:3	106:13 133:3	271:23
182:11 204:3	236:22,23	twopage 191.5 twopart 170:24	220:24 228:10	unfortunately
268:2 282:7	288:25	twopart 170.24 twothirds 167:7	228:19 243:17	50:8 291:7
208.2 282.7 294:1	turn 49:11 57:4,4	twoyear 239:15	255:10,11	unintentionally
tube 58:20	57:18 60:10	239:20	261:21 262:20	244:5
130:17 134:15	65:1 66:14	type 36:22 60:1	263:7,20	unit 16:20 17:2,4
139:17 140:8	76:13 78:3	76:8 87:25 88:2	264:10,17,23	17:20,21 18:2,3
145:8,8 148:10	109:12 111:25	89:22 90:11,12	269:14 270:11	17.20,21 18.2,3
143.8,8 148.10	113:14 114:23	105:9	209.14 270.11 270:25 271:16	24:15 30:7 31:9
148.23 149.2	141:14 179:13	types 31:7 88:15	270.25 271.10 271:18 282:7	32:19 41:6,6,7
154:16 167:9	205:21 212:23	283:8	282:18 286:23	49:17 63:19
182:15 198:17	203.21 212.23 217:4 253:8,22	typewriting 7:5	282:18 280.23	69:12 72:20
249:25 278:11	,	314:13		
	254:18 256:18		293:16,25	73:15 74:25
tubes 58:25 96:2	257:10,11,15	typical 44:18	295:5,6 308:2	75:5,6,15,19
96:3,4,11,24	263:17 269:4,7	typically 37:11	308:12	75:21 78:16
97:6,10 103:3	269:18,19	48:7 57:3 103:4	understandable	79:1,15,24 80:1
103:14 116:21	274:11,12	216:2	10:20	80:4,12,19
116:25 117:5	279:2,5 288:2	<u> </u>	understanding	81:15,19,22
124:6 130:12	turned 154:6	<u>u</u> 2:5 7:13 8:2,7	11:5,21 12:15	82:4 101:17
132:13,14,20	turning 94:24	u 2.5 7.15 8.2,7 uhhuh 11:13	26:23 28:22	102:8,10 116:6
132:24 133:4	146:11 212:9	18:10 29:15	35:8 41:17,21	116:21 117:7
133:16 152:14	255:9 256:4	46:22 48:2 52:1	45:25 47:13	121:22 123:6
153:3,17	257:18 261:13		58:4 62:10	123:13,23
164:11,12,21	262:4 264:2	53:8,11 70:18	63:13 64:19	125:4,14,17
164:22 165:1	268:25 272:25	71:25 76:5	70:1,23 71:5	126:8 129:10
165:10,10	275:14 276:19	77:24 79:7 80:2	72:7,21 73:20	130:7 131:3
166:17,18	279:23 284:8	82:17 120:12	74:1 79:3 95:22	134:24,25
182:15 197:8	284:24 285:8	122:21 124:19	125:3,8 126:3	135:3,3,5 140:9
198:14 207:11	tweaking 297:19	125:2 128:12	146:24 166:19	149:14 151:22
207:23 247:2,2	two 16:15 17:22	135:1 138:16	172:6,8,18	151:25 164:13
273:12,15	20:14,19 21:2	139:7 153:13	195:9 203:11	168:18 178:14
277:3,23	24:10 25:15	159:4 165:7	206:21 259:21	181:15,22
tuesday 23:16	30:3 44:6 49:5	167:6 196:17	262:7 271:4	182:21,24,25
turbine 58:20	51:16,22 53:9	211:13 223:2	272:6 289:18	192:14 193:12
139:25 140:8	55:12 74:25	226:7 238:4	295:23,25	197:9 198:14
149:10 225:3	84:7 87:17 93:8	243:18,22	296:4 301:15	207:9 212:14
236:7,11,20,25	95:3,10 128:25	298:13 301:22	306:23 307:25	213:13 215:17
237:2,4,5,7,11	134:1 141:15	unacceptable	understood 11:7	220:20 226:1
237:17,20	204:2 213:25	96:5,9	133:14	231:3,15
238:6,7,10,14	216:20 243:23	understand 8:12	undertake 38:8	232:20 235:25
238:23 239:7	249:13 259:25	10:13 12:23	undertaken 37:6	236:9,22 237:1

				Page 366
237:8,13,14,21	upgrade 224:24	234:20,25	250:4	violation 25:7,13
247:25 248:9	226:8 236:6,7	236:4,10,21	value 182:23	25:14 26:7,11
248:10,16	289:16	237:4,17	van 121:11,13,19	26:22 27:2
260:24 270:5	upgrades 226:13	238:11,13,16	124:17 126:25	28:16 56:19,21
281:23 282:10	229:18	239:1 280:6	variety 14:6	114:22 172:9
283:7 306:7	upper 56:7 105:6	utility 27:16,18	252:24	virtually 54:18
308:2,13,16,20	109:18	62:14 196:9,10	various 45:14	virtue 138:21
308:23,23	usage 278:11	utilization 69:21	47:12 54:6	volume 4:16,18
309:9,13,14,18	usdoj 2:9	69:23 70:5,10	224:9 252:24	19:15,15,23,23
309:21,21	use 11:21 12:3	71:1,2,11,11	vast 284:3	45:10 253:19
310:1	12:11,16 35:11	117:19 125:24	verbal 160:3	volumes 253:16
united 1:1,5,22	36:14 44:2	126:1,6 231:4	253:5	voluntary 227:7
1:24 7:11 8:4,6	54:25 60:24	273:13,16,21	verify 250:18	vs 1:7
9:5 11:22 25:9	62:16 68:8,11	274:23 275:2	version 50:10,16	
26:2 28:19	77:14 78:18	275:12	50:18 51:25	W
33:12 34:13	84:9 89:11	utilize 40:7	52:3,21 76:18	w 1:19 2:6
172:4 173:1	108:23 133:11	utilized 104:19	76:24 77:5	wait 10:24,25
201:12 209:3	144:21 145:12	105:3 155:16	85:23 109:3	56:14 173:17
209:12 252:2	155:3,5 160:2,3	232:2 244:22	222:8 233:23	waiver 176:11,12
units 33:3 74:8	162:6 171:7	302:22 303:4	233:23 234:5	waiving 296:8
77:16 78:15,17	187:2,3 189:2	305:10	versus 7:11	walk 253:7
80:15,18 95:3	206:3,17		182:20	wall 96:4,9 153:4
95:10 97:21	226:16 239:20	V	video 7:10	want 15:8 58:17
101:7,11,22	244:15 245:18	v 18:4 45:1	videographer	117:11 133:13
102:18,22	245:22,24	vacated 192:14	3:16 7:8 8:15	153:14 169:1
138:14,19	253:12 268:8	193:12	8:17 59:13,15	170:16 190:2
139:9 181:15	270:20 301:3	vague 55:22 57:9	107:1,4 146:2,5	251:12 262:19
181:16 195:2	301:19 307:7	61:7 69:25	190:18,23	266:12 267:1,3
208:10 241:20	307:18	70:12 71:15	205:10,13	277:9 279:6
309:12,20	useful 128:22	73:25 79:18	233:9,12	284:5 295:15
university	302:3	82:1 87:2 97:1	251:15,17	307:18,21
146:17	user 22:7	98:23,24	310:9,12	312:4
unnecessary	uses 72:12 81:25	101:24 102:12	311:25	wanted 40:21
159:3	166:12	122:16 133:7	videotaped 1:12	53:1 59:18,23
unrelated 296:23	uss 172:12	134:6,18	1:16	65:22 89:11
unusual 297:16	usually 56:4	181:12 183:1	view 38:7 57:16	97:10 110:22
update 42:22	193:21	189:21 199:10	104:12 107:24	124:6 185:19
50:8,9 61:24	utilities 6:13	201:1 206:6	149:1 174:25	200:20 214:7
86:3	195:20 197:4,5	209:5,15	203:5,14	249:16 250:17
updated 50:5	197:6,7 198:13	297:11	211:10 260:22	252:4 269:2
61:23	199:14,20,23	vaguely 201:13	299:12	272:19 279:2
updates 42:13,14	199:24 200:4	validity 188:19	vintage 60:17,20	280:12 296:21
90:15	204:12,16,21	valley 249:14	violate 16:5	wanting 40:1

Alderson Reporting Company 1-800-FOR-DEPO

Case No. EF-2024-0021 Schedule CME-r8, Page 132 of 136

				Page 367
96:22 284:3	51:22 119:21	223:20 234:11	149:4 150:9	wording 209:19
wants 114:9	161:4 171:4	240:2 246:5	173:5,16 177:3	words 22:2 40:9
189:9 299:18	199:13 221:15	whichever	181:1,13 183:2	72:12
299:22	222:11 292:3,4	253:12,14	189:7,22 193:1	work 9:19 50:8
washington 2:7	292:5	whitworth 3:17	195:9 198:24	55:25 85:25
3:14	wepco 62:8,11	wife 214:7	199:6,11 201:2	92:4 129:1
wasnt 50:8 71:7	62:12,13,16,18	wilbers 225:14	201:19 202:4	142:3 158:7
171:16,23	62:20,21 64:9	williams 179:20	202:19 204:25	171:24 187:9
186:8	64:12,18	183:11	206:7,21 209:6	189:16 227:12
water 106:24	158:18 159:6	willing 71:7	209:16 237:23	worked 188:15
141:23	159:16 169:23	127:8	249:11 251:22	213:24 226:4
way 36:14 37:4	170:1 179:21	wilson 32:1	253:19 255:19	292:15 304:25
42:21 45:25	180:12 183:15	wisconsin 62:14	256:12 258:9	working 136:23
57:16 64:23	183:19 188:23	wisely 24:18	258:23 259:10	148:22 156:14
70:21 85:20	254:5,21	wished 185:24	260:4 262:2,12	190:6
103:13 105:15	255:11,11	withdrawn	262:25 263:11	workload 30:14
111:2 114:21	256:5,6,13	286:24	264:15,21	30:23 86:1
124:14,23	261:7 300:1,20	witness 2:20 7:6	266:21 267:13	284:18
131:16 166:8	300:24 301:1	8:18 10:7 19:14	268:1 270:17	works 94:1,2
167:7 171:4,20	302:22 303:11	23:22 33:19	272:12 273:20	112:23 118:18
171:23,25	303:16,19,24	55:23 61:8	274:2 276:17	148:18 214:3
174:24 175:1	303:25	65:20 66:4 67:9	278:3,21 282:8	225:24
175:14 184:3	west 7:15	68:4 69:8,16	283:20 287:2	worksheet 128:8
204:10 223:10	westinghouse	70:1,14 72:7	287:13,18	128:14,24
228:5 262:25	237:8,9,13,14	73:17 74:1	288:21 289:22	198:1 246:16
266:16 267:2,4	weve 33:24 38:2	75:25 78:1,8	290:9,22,23	284:12,14
276:3 305:19	54:20 58:23	79:19 80:9,25	290:9,22,23	310:22,24
ways 74:25	59:6,8,10 125:7	82:3 83:3,18	292:15 293:3,4	world 76:3
wear 116:20	134:14 183:16	85:11 87:1,23	293:5,13,21	wouldnt 29:18,20
web 20:24 22:13	203:23 244:6	88:19 95:12,20	294:9,25 295:1	37:7 42:20
50:11,19,21,22	265:4 283:21	96:8 97:2,13	295:18 297:12	46:19 47:7
51:6,13,15,21	293:18 294:17	98:25 99:9,16	306:23 312:7	57:19 80:9
51:23 52:3,24	295:10 291:17	101:25 102:13	314:10,12	118:7 189:22
86:9 104:22,24	whats 35:8 41:17	103:8 106:6,23	witnesses 294:20	208:11,18,22
258:3 265:16	41:21 60:14	111:22 116:9	witnesss 294:20	268:4 306:11
287:22	62:7 63:13	116:23 119:9	293:11	write 129:5
weber 94:2,5	84:18 89:21	122:17 123:21	wondering	writer 10:10,10
152:9	95:22 120:8	130:16 132:17	214:22	10:16 16:20
weeds 97:3	127:15 140:16	133:8 134:7,19	wont 20:2 248:15	20:16 22:9,10
week 177:23	147:5 150:17	135:8 136:19	296:3	37:15 90:13
wei 235:12,17	157:4 160:17	139:2,22 140:3	word 54:25 77:6	121:10 126:24
weighs 158:6	162:18 172:6	142:12,19	96:8 126:6	133:19 157:4
weight 19:11 51:22	176:20 218:3	144:9 148:18	171:7	163:22 282:13
······································	170.20 210.5	111.7 170.10	1/1./	105.22 202.15
	l	l	l	

Γ				Page 368
283:6 307:6	40:22,23 43:25	293:10,12,13	155:18,19	103 5:5 221:3
writers 17:22	44:4,10,15 45:6	293:14 294:1	08 5:15	106 35:22 36:1,5
52:14 128:17	45:9,12 50:24	295:6 308:15	084 109:6	65:1 100:6
128:20 301:19	51:22 55:12,13	youve 84:17	0840003006	136:1 143:12
writing 28:1	81:9 93:25	86:21 140:20	108:11 109:25	153:20 252:14
114:10,11	113:23 114:8	290:21	0899030 227:2	107 5:7
133:18 164:5,6	114:12,12		09 107:1	10th 141:2
208:1	122:12 128:18	Z		144:16
written28:3 81:8	168:22 171:2	zero 79:15 80:7	1	11 5:12 66:17
115:18 160:4	179:4 200:21	80:22 81:25	1 4:13,16 7:7	67:6 107:1,5
163:3 204:10	204:2,2,2	82:4,6 176:11	10:4 19:8,15,23	120:5,9 217:5
263:1	213:24,25	229:15 230:10	20:9 65:2,13,24	220:12,23
wrote 17:2	216:20 218:10	231:18	66:23 67:5	257:18,19
240:15	226:5 239:16		97:21 101:11	274:12,13,22
	239:21 244:6	0	101:22 136:1,4	1108 1:21 3:10
X	252:25 253:1	0 143:12	136:6,7,23	7:4 314:8
x 4:1	268:5 278:12	000 167:10	138:12 139:8	11201 3:4
	280:17 282:11	00128710 176:25	140:1 143:12	113 5:10
Y	283:22 287:23	177:2	143:12,21,21	1155 3:12
yeah 27:6,8	302:1,9	00128720 175:22	144:4,4,13	11cv00077rws
39:22 70:1	yesterday 23:16	00128734 178:1	145:5,9 146:6	1:8 7:12
71:13 76:11	yield 221:17	00128736 179:15	153:20 165:6	12 5:14 81:9
84:20 94:8	306:11 311:9,9	00442862 211:12	167:20 179:15	127:12,16
112:16 169:24	yielding 231:18	00442891 212:24	179:15 227:15	145:24 146:3
173:5,16 211:7	yields 306:19	00442896 211:15	228:17 236:9	226:4 274:11
214:10 253:3	youll 49:4 177:5	01 190:19 312:1	236:22 239:4	275:15,15
256:19,20	youre 12:12	02 59:16	239:12 253:16	120 5:13
263:19 282:8	20:13 26:2	020 36:1,5 60:25	280:17 281:3	127 5:15
294:15	43:15 61:15	66:15 100:13	282:3,11	13 5:16 67:21
year 30:3 45:17	70:8,11 93:11	02317793 109:13	10 1:18 5:9 6:17	140:13,17
46:10,11 51:16	131:18 141:4	05 64:19	35:22 59:16	14 5:18 147:2,6
51:22 55:19,21	149:21 151:2,2	06 5:3,13	100:6 113:5,9	214:15 219:20
56:7 69:13 70:6	154:24 156:4	060 35:22 61:2	114:24 141:4	219:23 221:1
71:12 78:22	156:20 163:5	61:24 65:1	142:8 143:7,12	140 5:17
90:21,24	175:18 182:20	66:21 88:5	153:20 226:16	143 167:11
105:21 106:15	184:7 194:18	100:6,13 136:1	229:13 230:24	147 5:19
206:13 217:9	203:17 207:18	138:1 143:12	252:14 257:15	148 54:21
280:16 281:3	209:9,11 218:5	143:21 144:4	257:17,19	15 5:20 78:3,4
282:12	222:20 237:10	145:5 252:14	272:25 273:3	82:15 114:12
yearround	239:4 253:15	0601 145:9	100 283:23	114:25 150:14
105:12	263:18 267:8	061 35:23,24	10144 178:1	150:18 309:1
years 16:15 17:2	267:21 290:1	137:6,22,25	1019521mdnr	150 5:21
17:5,22 21:2	292:18,21	153:20 154:6	49:2	15th 119:1,6
24:10 31:21		155:3,5,15,16		
	I		l	l

Case No. EF-2024-0021 Schedule CME-r8, Page 134 of 136

Page	369
гадс	505

				Page 369
16 5:22 110:8	1994 32:3	20004 2:7	91:1	202 2:8
162:15,19	1996 60:17,20	2000s 109:4	2007 197:5 211:3	209 6:9
205:18 276:20	61:24 64:2,17	2001 44:9 45:23	211:6 216:15	21 5:3 6:8 65:4
276:20 277:8	65:22 67:22	141:3,4 142:1,8	216:22	66:23 83:7 87:4
278:10	82:11 135:18	143:2,4,8	2008 44:6,9	89:8 91:15
162 5:23	137:20	144:16 226:5	128:1,5 129:5	109:19 135:25
1659 9:17	1997 148:25	2002 17:3,7,16	130:5 171:18	135:25 136:9
16th 110:14	150:2	63:11 179:9,24	218:4,18,21	143:18,20
112:4	1998 24:22 90:23	191:23 304:7	234:25 275:22	192:10,19
17 5:24 166:1	1999 16:17,20,22	2003 32:22	2009 22:22 163:6	200:18 206:4
173:8,12	17:7 18:18	150:24 151:3	163:10 166:1,5	206:12 209:21
190:24 197:12	31:12 32:14,21	151:12,15	166:9 169:7	210:1 220:15
198:11,16	33:2 61:21,25	152:13,20	170:6,9 171:3	220:17 230:2
204:6 221:17	109:3 136:24	153:7 154:12	197:3,12 198:4	232:3,8 242:3
279:3	148:22	155:1,12 159:5	198:11,17	250:6 270:23
173 5:25	19th 197:4	159:13 160:8	204:6 206:2,5,8	21st 198:4
17th 163:8,9,10		162:2	218:3 225:21	22 6:10 167:11
197:3 280:5	2	200311040 151:7	240:16,18,22	223:17,21
18 1:14,17 6:2	2 4:15,18 19:15	20036 3:14	240:24 241:13	288:3,5 296:17
67:23 183:21	19:23,23,24	2004 17:23 18:7	242:14,17	223 6:11
183:25 240:24	97:21 101:11	18:7 32:23,24	243:7 244:21	22nd 91:1
241:13 242:14	101:22 123:6	44:9 45:13,23	246:25 278:12	23 6:12 151:3,12
242:17 243:7	123:13,23	63:22 64:1	280:5	151:14 152:12
244:21 279:5	124:12 129:15	115:1 118:19	2010 22:23	153:7 154:12
279:13	164:13 165:4	119:1,7 173:25	171:18 184:7	155:1 160:8
183 6:3	167:19 184:15	174:1 175:6,8	184:16,22	221:15 222:25
184 53:18 54:1	187:24 191:12	177:10 178:23	185:10,12	234:8,12
54:18 55:11	197:12 198:16	186:22,23	186:3,12,21	251:15
56:2	205:21,22,23	261:19 304:10	187:11,12	230 1:19 7:15
184day 55:18	207:5 234:25	307:3 310:5	188:4,20	234 6:13
18th 7:9 240:16	235:3 247:8	2005 192:2,7	190:11 210:13	239 6:15
240:22 312:1	253:9,16,19	193:9 218:23	212:10 215:14	23rd 150:24
19 4:16,18 6:4	274:21	218:25	216:17,23	24 6:14 193:9
190:21 191:3	20 6:6 76:14,14	2006 89:8 90:20	246:22 247:8	206:17 221:17
190 6:5	83:7 196:12,16	91:2,15 97:25	247:19 248:1	232:5 239:23
1954 103:22	279:23 280:18	102:7 108:21	279:17 302:17	240:3 285:9,14
196 6:7	284:8,9 310:17	120:17,24	303:8	246 6:17
1968 10:1,2	200 3:13 280:17	121:25 122:25	2011 18:13,16	25 6:16 228:12
1988 300:7	281:3 282:3,11	123:4 191:15	32:25,25	228:12 230:3
1990 34:6 109:19	2000 44:17 49:20	194:5 218:23	2012 44:5 45:24	246:2,6
110:8,15 112:4	51:25 76:18	218:25 261:23	46:3 194:11	250 36:23
114:16	84:11 86:1	269:12	2013 1:14,17 7:9	251 4:5
1992 63:4,8 64:9	180:1 216:23	200605022 90:18	313:16	2585646 2:17

F				Page 370
25th 192:2,7	34 146:3	301:13	60 4:25 263:18	797mdnr 107:9
193:9	3673376 3:15	5149859 2:8	263:20	7s 148:4
26 221:6,17	37 7:10	52 192:10,19	600 280:16 281:2	7th 163:6
26th 123:4	39 205:11	200:18 206:4	282:3,10	
246:25		206:12 220:15	601 2:6	8
27 211:3 217:5	4	220:17 230:2	6060 60:23	8 1:18 4:4 5:4
233:10 281:20	4 1:8 4:19 7:12	232:3,8 250:6	60606 2:16	6:17 7:10 78:21
273 167:11	33:15,16 87:4	270:23	61 221:3	87:9,18 88:9,10
27th 269:12	163:10 178:22	5221 34:1	643 64:19	102:6 103:17
28 194:4	233:10,13	53 53:6 76:14	65101 9:18	103:20 105:21
2896 210:25	40 34:1 192:10	233:13 254:18	65102 2:24	106:14 155:17
29 5:13 107:5	192:18 200:17	256:4 300:4,22	65203 9:15	156:1 181:5
120:17,23	205:14 206:4	301:9,13 309:1	6600 2:15	252:14
120:17,23	206:12 220:15	55 256:18,21	66219 3:5	800 3:15 282:12
123:4 210:17	232:3 250:6	257:10	6th 142:1	282:20 283:1,3
212:23 226:9	270:23	5517962 3:6		283:12
291 4:6	46 59:13	553 167:10	7	810 9:14
	47 221:6,17	57 175:15	7 1:18 3:2 4:14	863 215:5
3	48 4:22 146:6	573 2:24	5:2,3,25 8:8	864 120:11
3 4:17 5:13,15	310:9	578mdnr 49:3	21:14 22:14	88 5:3
6:17 19:23,24		5th 10:1 128:1,5	29:25 40:6,18	885mdnr 89:2
76:21 116:6,21	5	129:5 130:5	41:18 43:24	899 2:23
117:7 130:7	5 4:21 5:15 48:20	186:12 210:13	44:4`45:6 47:13	8th 191:15
131:3 153:20	48:22,25 53:6	240:18 275:22	47:13 49:20	246:22 247:8
167:4,10	76:13 85:22	279:17	51:25 76:18	247:19 248:1
190:19,24	87:8,18 88:3,4	277.17	87:9,18 88:9,17	
205:11,14	88:4 184:7,16	6	88:20,20	9
253:23,24	184:22 185:10	6 1:12,16 4:14,24	118:18,20	9 5:6 59:13 66:16
254:18 255:10	185:12 186:3	8:10 10:10	119:23 147:15	107:3,8 155:17
256:5,19,19	186:12,21	35:23,24 60:11	147:23 148:2	182:3 221:15
257:11 263:17	187:11,12	60:12,15,25	152:20 153:4	222:25 225:1
269:4 279:10	188:4,19	61:2,19,24	155:17 173:24	226:6
300:7,22 301:9	190:11 197:9	66:15,21 81:13	176:23 177:10	900 45:17 46:5
309:2	198:14 212:10	87:9,18 88:5,7	180:19 187:6	913 3:6
30 1:12,16,18	215:14 224:6	88:8 100:13,13	228:6,12 312:1	96 62:4
4:14 8:10 10:10	251:15,18	135:22,24	70 111:19 112:2	99 62:4
81:13 122:18	305:20,20	137:6,22	70316 264:3	9th 300:7
145:24 206:24	50 128:16 250:10	143:12,21	7513640 2:24	
253:1 271:12	269:7,9 283:23	144:4 145:5,9	760 78:21 102:6	
280:18	500 45:17 46:5	154:6 155:3,5	105:21 106:14	
312 2:17	51 253:22 254:2	155:15,16,18	77 221:1	
33 4:20 251:18	254:4,8 255:9	155:19 206:24	796 111:25	
3316 184:5	255:10,10	271:12 310:9	797 113:11	
U 107.J	300:4,6,7 301:9	2/1.12 310.7	171 113.11	

Alderson Reporting Company 1-800-FOR-DEPO

Case No. EF-2024-0021 Schedule CME-r8, Page 136 of 136 Case No. EF-2024-0021

SCHEDULE CME-r9

HAS BEEN DEEMED

CONFIDENTIAL

IN ITS ENTIRETY

Ameren Missouri Response to MPSC Staff Data Request MPSC Case No. ER-2011-0028 In the Matter of Union Electric Company d/b/a AmerenUE for Authority to File Tariffs Increasing Rates for Electric Service Provided to Customers in the Company's Missouri Service Area

Data Request No.: MPSC 0257 – Lisa Hanneken

Please provide a listing and the dates of completion for each and all Power Plant outages and upgrades from 1/1/09 to present which a) has provided a change in the amount of energy the power plant is expected to produce on a going forward basis, b) changed the future outage or maintenance schedule c) provided a cost reduction or increase. For each a, b, and c, provide a detailed discuss of the impact of such a change (i.e. number of MW change, number of months/years maintenance was deferred, amount of cost difference, and reasons for each). This data should be provided on a separate power plant basis for each and all power plant owned and operated by Ameren Missouri.

RESPONSE

Prepared By: David Bullard Title: Managing Supervisor, Project Controls Date: December 15, 2010

HIGHLY CONFIDENTIAL

See attachment for requested data.

remainder of

SCHEDULE CME-r2

HAS BEEN DEEMED

CONFIDENTIAL

IN ITS ENTIRETY

Case No. EF-2024-0021 Confidential Schedule CME-r10, Page 2 of 2 Case No. ER-2022-0337 Confidential Schedule CME-r2 Page 2 of 2 Case No. EF-2024-0021

SCHEDULE CME-r11

HAS BEEN DEEMED

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IN ITS ENTIRETY