Docket #0142 Date Filed: 5/15/2023

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UNITED STATES BANKRUPTCY COURT WESTERN DISTRICT OF NORTH CAROLINA CHARLOTTE DIVISION

ARMSTRONG WORLD INDUSTRIES, INC. ASBESTOS PERSONAL INJURY SETTLEMENT TRUST, et al.,

Miscellaneous Proceeding

Plaintiffs,

No. 22-303 (JCW)

v.

(Transferred from the District of Delaware)

ALDRICH PUMP LLC, et al.

Defendants.

In re:

Chapter 11

ALDRICH PUMP LLC, et al.,1

No. 20-30608 (JCW)

Debtors.

DECLARATION OF BETH MOSKOW-SCHNOLL IN SUPPORT OF THIRD-PARTY ASBESTOS TRUSTS' SUPPLEMENTAL FILING IN OPPOSITION TO DEBTORS' MOTION FOR REHEARING CONCERNING THE ISSUE OF SAMPLING ON DCPF'S SUBPOENA-RELATED MOTIONS

- I, Beth Moskow-Schnoll, declare:
- 1. I am a partner at the law firm of Ballard Spahr LLP. My office is located at 919 N. Market Street, 11th Floor, Wilmington, Delaware 19801. I am a member in good standing of the Bar of the State of Delaware. There are no disciplinary proceedings pending against me.
 - 2. I submit this declaration in connection with the Third-Party Asbestos Trusts'

¹ The Debtors are the following entities (the last four digits of their respective taxpayer identification numbers follow in parentheses): Aldrich Pump LLC (2290) and Murray Boiler LLC (0679). The Debtors' address is 800-E Beaty Street, Davidson, North Carolina 28036.



Supplemental Filing in Opposition to Debtors' Motion for Rehearing Concerning the Issue of Sampling on DCPF's Subpoena-Related Motions filed contemporaneously herewith. I have personal knowledge of the matters set forth herein.

- 3. Attached as **Exhibit A** is a true and correct copy of Dr. Abraham Wyner's expert report in the above-captioned actions, served on all counsel of record on April 25, 2023.
- 4. Attached as **Exhibit B** is a true and correct copy of the transcript of the deposition of Debtors' expert Dr. Charles Mullin, taken in the above-captioned actions on May 8, 2023.
- 5. Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge, information, and belief.

Dated: May 15, 2023

Beth Moskow-Schnoll Ballard Spahr LLP 919 N. Market Street, 11th Floor Wilmington, DE 19801 (302) 252-4465 moskowb@ballardspahr.com

Attorney for Armstrong World Industries,
Inc. Asbestos Personal Injury Settlement
Trust; The Babcock & Wilcox Company
Asbestos PI Trust; Celotex Asbestos
Settlement Trust; DII Industries, LLC
Asbestos PI Trust; Federal-Mogul Asbestos
Personal Injury Trust; Flintkote Asbestos
Trust; Owens Corning / Fibreboard Asbestos
Personal Injury Trust; Pittsburgh Corning
Corporation Asbestos Personal Injury
Settlement Trust; United States Gypsum
Asbestos Personal Injury Settlement Trust;
and WRG Asbestos PI Trust

EXHIBIT A

UNITED STATES BANKRUPTCY COURT WESTERN DISTRICT OF NORTH CAROLINA CHARLOTTE DIVISION

In re

ALDRICH PUMP LLC, et al.,1

Debtors.

ARMSTRONG WORLD INDUSTRIES, INC. ASBESTOS PERSONAL INJURY SETTLEMENT TRUST *et al.*,

Plaintiff(s),

v.

ALDRICH PUMP LLC, et al.

Defendant(s).

AC&S ASBESTOS SETTLEMENT TRUST, COMBUSTION ENGINEERING 524(G) ASBESTOS PI TRUST, GI HOLDINGS INC. ASBESTOS PERSONAL INJURY SETTLEMENT TRUST, GST SETTLEMENT FACILITY, KAISER ALUMINUM & CHEMICAL CORPORATION ASBESTOS PERSONAL INJURY TRUST, QUIGLEY COMPANY, INC. ASBESTOS PI TRUST TH AGRICULTURE & NUTRITION, L.L.C. ASBESTOS PERSONAL INJURY TRUST, and YARWAY ASBESTOS PERSONAL INJURY TRUST, TRUST,

Petitioners,

v.

Chapter 11

Case No. 20-30608 (JCW)

(Jointly Administered)

Miscellaneous Pleading

No. 22-00303 (JCW)

(Transferred from District of Delaware)

Miscellaneous Pleading

No. 23-00300 (JCW)

(Transferred from District of New Jersey)

¹ The Debtors are the following entities (the last four digits of their respective taxpayer identification numbers follow in parentheses): Aldrich Pump LLC (2290) and Murray Boiler LLC (0679). The Debtors' address is 800-E Beaty Street, Davidson, North Carolina 28036.

ALDRICH PUMP LLC and MURRAY BOILER LLC,

Respondents,

VERUS CLAIM SERVICES, LLC,

Interested Party,

NON-PARTY CERTAIN MATCHING CLAIMANTS,

Interested Party.

EXPERT REPORT OF ABRAHAM J. WYNER, PH.D.

I. INTRODUCTION & QUALIFICATIONS

- 1. I am a Tenured Full Professor of Statistics and Data Science at University of Pennsylvania's Wharton School. I am also the Chair of the University's Undergraduate Program in Statistics. I also co-direct the Wharton People Analytics Initiative and the Wharton Sports Analytics and Business Initiative.
- 2. I completed my undergraduate education magna cum laude at Yale University with a Bachelor of Science in Mathematics in 1988. I then earned my Ph.D. in Statistics from Stanford University in 1993.
- 3. My conclusions in this report are based on my more than 25 years of professional and academic experience in the relevant field of statistics. During this time, I have worked with many large intersecting data sets (including asbestos trusts) and I am familiar with the complexities involved in extracting the data that is needed to do an analysis. My research interests have been broad. I have published across many methods and applications including Applied Probability, Information Theory, Mathematical Analysis of Algorithms, Machine Learning, Applied Statistical Analysis, and Bayesian Hierarchical Modeling.

4. I am being compensated at a rate of \$1,000 per hour for my efforts in connection with the preparation of this report. My compensation is in no way contingent on the results of this or any other proceeding. I have no financial interest in the outcome of this matter.

II. SCOPE OF MY REPORT

- 5. I have been asked by counsel for the DCPF Trusts², the Delaware Claims Processing Facility, LLC, the Verus Trusts³, and Verus Claims Services, LLC, to respond to the Declaration of Charles H. Mullin, Ph.D.⁴, submitted in support of Aldrich Murray LLC and Murray Boiler LLC's (the "Debtors") Motion for Rehearing, regarding the relative cost/benefits of sampling versus a full population census of the 12,000 at-issue claimants. I will opine on the accuracy and sufficiency of a sample of 1,200 claimants (10% of total population) for reasonable purposes.
- 6. As described in detail below, it is my opinion that a random 10% sample of 1,200 claimants would fulfill all of the Debtors' reasonable needs. My opinion and others described herein reflect my evaluation of the sources listed in Exhibit A to this report. I expressly reserve the right to modify, amend, and/or supplement my opinions expressed herein to respond to any arguments made by the Debtors directly, or through the testimony of its experts, in response to my opinions expressed herein, or to consider any new evidence that becomes available.

² The DCPF Trusts are the Armstrong World Industries, Inc. Asbestos Personal Injury Settlement Trust; The Babcock & Wilcox Company Asbestos PI Trust; Celotex Asbestos Settlement Trust; DII Industries, LLC Asbestos PI Trust; Federal-Mogul Asbestos Personal Injury Trust; Flintkote Asbestos Trust; Owens Corning / Fibreboard Asbestos Personal Injury Trust; Pittsburgh Corning Corporation Asbestos Personal Injury Settlement Trust; United States Gypsum Asbestos Personal Injury Settlement Trust; and WRG Asbestos PI Trust.

³ The Verus Trusts are ACandS Asbestos Settlement Trust; Combustion Engineering 524(g) Asbestos PI Trust; G-I Holdings Inc. Asbestos Personal Injury Settlement Trust; GST Settlement Facility; Kaiser Aluminum & Chemical Corporation Asbestos Personal Injury Trust; Quigley Company, Inc. Asbestos PI Trust; T H Agriculture & Nutrition, L.L.C. Asbestos Personal Injury Trust; and Yarway Asbestos Personal Injury Trust.

⁴ Declaration of Charles H. Mullin, Ph.D., No. 22-mc-303 (JCW) (Dkt. No. 55) (the "Mullin Declaration").

7. If called to testify, I may also explain principles and terminology referred and alluded to in this report, as well as any documents referenced herein. I may also use demonstrative exhibits, animations, and other such testimonial aids in support of my testimony to illustrate the bases of my opinion.

III. DR. MULLIN'S DECLARATION

8. Dr. Mullin's declaration is fundamentally an analysis that compares the costs of sampling (a potential increase in analysis time for recipient of data and loss of accuracy) to its benefits (reduction in privacy risk and lowering of administrative costs for provider). Most of the report is an attempt to downplay the privacy risks and emphasize a potential loss in accuracy, while attempting to downplay the contradictory, pro-samplings arguments made in the *Bestwall* case⁵ by his colleague at Bates White, Jorge Gallardo-García, Ph.D., who clearly states that sampling is sufficient. At no point does Dr. Mullin quantify the potential loss of accuracy. He implies the loss is substantial enough to justify the costs without explanation, calculation, or quantification of any kind.

IV. SUMMARY OF MY OPINIONS

9. It is my opinion that a random sample that is large (10%), weighted or stratified towards larger settlement values, would be practically and materially no less accurate than a full census of the approximately 12,000 claimants in the targeted population. Such a sample has already been discussed in the *Bestwall* Declaration, which does not identify any attribute of the population that cannot be accurately studied with a sample. The Debtors have further proposed a

⁵ Declaration of Jorge Gallardo-García, PHD, *In re Bestwall LLC*, Bankr. No. 17-31795 (LTB) (Dkt. No. 2183) (the "Bestwall Declaration").

variation of that sampling design here, which they acknowledge provides a "reliable cross-section" of the targeted population.⁶

10. Consequently, there would be no practical or material benefit to requiring the production of the full population. In addition, there is a risk of an inadvertent dissemination of highly confidential data. The likelihood of such breach may be small, but the damage would be large if it occurred. If only 10% of the target population is produced, the damage in the resulting data breach to the individual claimants can be expected to be 10 times smaller because it would involve 10 times fewer claimants.

V. DISCUSSION

A. The accuracy of sampling versus a full census

11. Let me begin with an analogy. In the sport of football, it is generally regarded that taller quarterbacks are advantaged over shorter quarterbacks, if all other attributes are the same. Therefore, when drafting a quarterback, an NFL team has to consider height among the many considerations. If they were comparing two potential picks, one who is 6 feet and 1.00 inch (exactly) tall and another who is 6 feet and 0.99 inches tall, they would consider their heights to be practically and materially the same, even though it is technically true that there is a 0.01 inch difference in height. When comparing them, height would not be considered at all and only the other attributes would be discussed and weighed to make the determination. Similarly, when discussing samples of various sizes, it can often happen that there is no practical or material advantage gained with the larger dataset.

⁶ Dec. 19, 2022 Email from Morgan R. Hirst (the "December Sampling Proposal"). It is my understanding that, since the Debtors made the December Sampling Proposal, the Debtors nearly reached agreement with the Official Committee of Asbestos Personal Injury Claimants and the Future Claimants' Representative on a sampling proposal. I cannot opine specifically on this sampling proposal as it was not provided to the DCPF Trusts, the Delaware Claims Processing Facility, LLC, the Verus Trusts, or Verus Claims Services, LLC.

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- 12. Dr. Mullin emphasizes that smaller samples can be less accurate than larger samples⁷, but he does not address the central question at issue here: *is a large, efficient 10% sample, materially and practically equivalent to a complete census*? As explained below, the answer to this question is yes a 10% sample, as a practical matter, is just as good as a full census for the purposes described by Dr. Mullin and the Debtors' reasonable needs.
- 13. The starting point for this analysis requires an understanding of what can make a sample inaccurate. Samples are most familiar in matters that involve polling and surveys. These samples are indeed frequently deficient and inaccurate, but not because they are too small. The typical samples seen and discussed in the media suffer from "sampling bias." They have characteristics that are invariably different from the population in key ways. But sampling bias is not an issue here, since the population is enumerable and identifiable. In other words, all the claimants in the Debtors' database are known.
- 14. In fact, a trained statistician with access to an enumerated list of individuals in a targeted population can easily create a sample that makes optimal use of the data. Such a design was already proposed in the *Bestwall* Declaration, and a variation of that design was proposed by the Debtors here in the December Sampling Proposal.⁹

⁷ Mullin Decl., ¶ 10.

⁸ Sampling bias occurs when subjects with different attributes have different and unknown chances of inclusion in the sample.

⁹ The sample set forth in the *Bestwall* Declaration and the Debtors' December Sampling Proposal are of a stratified design, where samples of different sizes are taken from a large number of categories (called strata). Another approach, known as weighted sampling, would weight the probability of inclusion in the sample according to a specific attribute. For example, claimants can be included with probability in direct proportion to their settlement value. This "weighted" approach can be highly efficient and simple to analyze. It also requires fewer arbitrary decisions that may go into defining strata.

B. A random 10% sample fulfills all of the Debtors' reasonable needs

15. With an unbiased sample, it is possible to measure the precision of a sample when there is a specific characteristic of the population (called a "parameter") that is the subject and purpose of the data analysis. Dr. Mullin does not specify precisely the parameter that he or the Debtors intend to measure. But he does sketch the general ideas:

Specifically, the data would allow us to compare exposure allegations to the products of the reorganized entities for which the trusts were established with the exposures those same claimants disclosed in their tort litigation against the Debtors. This would enable us to *quantify the proportion of alternative exposures* disclosed to the Debtors at the time of settlement.¹⁰

Thus, the first parameter of interest is a proportion of claimants that failed to disclose alternative exposures.

- 16. When the parameter of interest is a proportion (which is a percentage between 0% and 100%), then the equivalent sample proportion is an "estimate" of the parameter. The accuracy of an estimate is measured using the laws of probability theory, by calculating the "standard error" of the estimate, which is defined to be the typical¹¹ difference between the sample proportion and the population proportion.
- 17. For example, if the true population proportion of claimants that have undisclosed alternative exposures is 5%, and the sample proportion of the same quantity is 4% then the difference is called the sampling error, which in this example is 1%. The standard error quantifies this difference in frequency terms. For example, if the true population proportion were 10% and the standard error were 1% then most samples (about 2/3 of samples) would have a sample proportion between 9% and 11% and it would be very unusual (about 5% of samples) for the

¹⁰ Mullin Decl., ¶ 16 (emphasis added).

¹¹ The standard error is the standard deviation of the difference between the sample proportion and the population proportion, where the variation is caused by sampling.

sample proportion to be greater than 12% or less than 8%. This means that any attribute that the whole population has will be mirrored closely in the population. If the population proportion is 10%, the sample proportion is very likely to be very close to 10%. If the population has a proportion of 2%, the sample proportion will be very close to 2%.

- One of the most useful formulas in statistics, tells us that, for a simple random sample, the standard error of a sample proportion is at most $\frac{1}{2\sqrt{n}}$, where n is the sample size. Thus, a simple sample of 1,200 drawn from a population of 12,000 (10% of the total) has a standard error that is *less than 1.5%*. This means that, whatever the true percentage of claimants that failed to disclose alternative exposures, the results from a simple random sample of 10% of the population would likely be within 1.5% of the true population proportion.
- 19. It is common to double the standard error to be extra sure about the range of possible values. So in the case of a simple random sample of size 1,200, we can be nearly certain that the true population proportion is within 3% of the number that is calculated from the sample. If there is a practical purpose for this data that requires more accuracy than this, it has never been disclosed or argued, certainly not by Dr. Mullin.
- 20. In practice, however, the standard error for a simple sample of 1,200 observations (10% of the total) will usually be a lot smaller than 1.5%. If the true population proportion were 5%, then the standard error would be less than 0.6%. A stratified sample (like the methodologies proposed in the *Bestwall* Declaration and the December Sampling Proposal) can even be more efficient.

¹² The precise formula for the standard error of a sample proportion is $\frac{\sqrt{p(1-p)}}{\sqrt{n}}$ where p= true proportion. This is always less than $\frac{1}{2\sqrt{n}}$.

21. A stratified sample groups the population into different "strata" and samples more frequently from strata with higher variability. This approach is more efficient in the sense that it makes optimal use of each data point. The reason for this has to do with the importance of each observation to the conclusion. In a simple random sample, every claimant has equal likelihood of inclusion. In a stratified sample, like the one in *Bestwall*, claimants that have very low settlements are less likely to be included. This is more efficient since the consequence of any improper disclosure in smaller for smaller settlements so fewer small settlements are needed to estimate their impact. In the end, this means that, with the same sample size, the resulting standard errors can be lower than in a simple random sample.

22. Thus, for purposes of testing the first parameter of interest, the proportion of claimants that failed to disclose alternative exposures, a simple or stratified random sample would provide an exceedingly accurate result. The very small uncertainty in the proportion that remains after sampling will have no practical impact on the claim evaluation process. In fact, as I will explain later, this uncertainty is very much smaller than the modeling uncertainty about claims valuations.

23. Dr. Mullin also discusses a second parameter of interest:

Further, if full disclosure has not occurred, then variation in disclosure patterns would allow us to model the impact of partial information on settlement amounts. If that information is not communicated to a defendant, a plaintiff can artificially increase settlement amounts in a number of different ways.¹³

Dr. Mullin suggests that he wants to measure the impact of non-disclosure on settlement amounts.

The assumption here is that a claimant who fails to disclose their exposure completely would have been owed a smaller settlement value had they in fact disclosed such information. The overall

¹³ Mullin Decl., ¶ 17.

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average impact of such non-disclosures would be a population parameter of great interest. For this parameter, at issue before the Court is the following question: *If a sample were used to estimate this value, how precise would that estimate be*?

- 24. Because the *proportion* of non-disclosed claimants has a very small standard error, it follows, if all the settlements were the same size, that the standard error of the overall average impact would also be small. If the settlements are not the same size, a stratified sample can be drawn that oversamples the claims with the highest variation. When this happens an additional "finite sample correction factor" is added to the formula, which reduces the standard error.¹⁴ Applying this here, since we know that the settlement amounts are not the same size for each claimant, a properly stratified sample of 1,200 claimants' data, would allow Dr. Mullin and the Debtors to calculate the average size of the impact of non-disclosure on settlement values with uncertainty that is extremely small.
- 25. Beyond the two parameters discussed above, Dr. Mullin does not specify precisely or intimate any other parameters of interest. In my review of the relevant materials, I have not encountered any argument or specific identification of any need that cannot be fulfilled by a sample and that would require a full census. As discussed above, a sample would provide an exceptionally accurate result that would be commensurate with a result derived from the total population.
- 26. It is possible that there may be a desire to do more than accurately and scientifically assess the Debtors' liability. For example, if the Debtors are looking for stories to support their arguments anecdotally, then having a larger pool of claimants would produce a larger pool of

¹⁴ The finite sample correction factor lowers the standard error by an amount $c = \sqrt{\frac{(N-n)}{(N-1)}}$ where n = sample size in given strata and N=strata size. This can be substantial reduction in the standard error if the sample size is large relative to the size of the strata. This is why the sampling proportion will be high for certain strata with large settlements.

stories. To illustrate, if you want to study how much money gamblers lose on average in sports betting in an effort to marshal arguments to illegalize sports betting, then a random sample of sufficient size would be sufficient to accurately and reliably measure the economic losses. If, on the other hand, the best argument requires an example of a losing streak, then a full census will generate more extreme results that could be used to illustrate this point.

C. A full census provides no material benefit

- 27. What I have demonstrated is that a 10% sample is completely sufficient and not materially worse than a census for the purposes outlined by Dr. Mullin or the Debtors' reasonable needs. So what benefit is there to doing a complete census? Dr. Mullin indicates that there are a few benefits, I will consider them and show that any such benefit is exceedingly minor.
- 28. Dr. Mullin discusses the "analytical burden" of sampling without defining or explaining it.¹⁵ He does not say what that burden is exactly or how extensive that burden would be. Simple random samples are trivially handled, and unweighted stratified samples are not substantively harder to implement and analyze (for appropriately qualified experts) since there are readily available or derivable formulas that can be applied to stratified or weighted samples.¹⁶
- 29. While there are a few extra statistical calculations that are required to compute standard errors (that are not needed when doing a census), this is not hard or particularly burdensome. Data analysis on the full dataset is not substantively easier especially since there will be statistical challenges of all types that will arise, sampling or no sampling. Even if a full census were taken and analyzed, there would still be uncertainty about the parameters at issue. There are

¹⁵ Mullin Decl., ¶¶ 25-31.

¹⁶ E.g., Ken Aho, Confidence Intervals for Stratified Random Samples, INST. FOR STATISTICS & MATHEMATICS, https://search.r-project.org/CRAN/refmans/asbio/html/ci.strat.html (last visited Apr. 25, 2023).

other unknowns that would have to be estimated and would require the creation of a statistical model. These will introduce new uncertainty, distinct and irreducible, and **not due to sampling.**

- 30. For example, it may be quite important to compute what the dollar value of a settlement would have been, under the counterfactual that a full and accurate disclosure had been made. This cannot be known precisely and would have to be estimated using a model for each claimant who failed to accurately disclose. Consequently, even if all the data for every claimant is collected (without sampling), a statistical model would be required to make an estimate of a counterfactual settlement amount. The uncertainty of this can be guessed, but not known. Based on my experience in modeling and statistics, the uncertainty in estimating the counterfactual would far exceed the standard errors caused by sampling. In short, as a practical matter a 10% sample is just as good as a full census.
- 31. In his Declaration, Dr. Mullin also cites the Internal Revenue Service ("IRS") recommendation that samples should not be used when "it is reasonable to examine 100 percent of the items under consideration." This recommendation is given without any context and is not applicable. The IRS is not tasked with *estimating* the amount of taxes owed. It needs to know the amount exactly, if possible, thus the recommendation. The IRS is tasked with finding every incident of tax avoidance. If they were only interested in estimating the average size of underpayments then a sufficiently large sample can be practically and materially no worse than a complete census. In fact, sometimes a sample can be preferred because samples can sometimes be more carefully checked for inaccuracies. This is particularly important when some of the data fields consist of "narratives" (like descriptions of exposure histories) that require human readers and curation.

¹⁷ Mullin Decl., ¶ 20.

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32. Because there is no practical loss in accuracy created by sampling, there is no need for, or material benefit from, taking a full census of the claimants' data, especially when balanced against the significant privacy benefits that sampling provides. It is always possible that a data breach will occur exposing the data and breaking the confidentiality that has been promised. The chance of such a breach can be minimized, but never eliminated. If the entire population of claimants is released than all the claimants private and confidential information is at risk. If a sample of 10% is released, then the size of the at-risk population is 10 times smaller. Since the damage in a confidentiality breach is measured in proportion to the size of the number of individuals that are exposed the potential damage to the individual claimants is 10 times smaller.

VI. CONCLUSIONS

- 33. Dr. Mullin has argued that sampling should not be used because a full census is more accurate and the burdens of a full census are not sufficiently large to outweigh the benefits. What Dr. Mullin fails to do is quantify, even approximately, how much less accurate a sample will be. I conclude that a random sample that is large (10%), weighted or stratified towards larger settlement values, would be practically and materially no less accurate than a full census of the approximately 12,000 claimants in the targeted population.
- 34. A proper stratified random sample can accurately estimate the proportion of claimants that did not consistently disclose their exposure histories and also estimate the average difference in settlement amount if exposures were properly disclosed. With respect to these issues, there would not be a practical or material difference in the information acquired from a large, targeted sample of 1,200 than would be gained from the full census of the entire population of 12,000.

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Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury that the foregoing is true and correct.

Dated: April 25, 2023

Philadelphia, PA

Abraham J. Wyner, Ph.D.

EXHIBIT A

List of Sources:

- 1. Motion of the Debtors for an Order Authorizing the Debtors to Issue Subpoenas on Asbestos Trusts and Paddock Enterprises, LLC [*In re Aldrich Pump LLC*, et al., Dkt. No. 1111];
- 2. Reply in Support of Motion of the Debtors for an Order Authorizing the Debtors to Issue Subpoenas on Asbestos Trusts and Paddock Enterprises, LLC [*In re Aldrich Pump LLC*, et al., Dkt. No. 1182];
- 3. Third-Party Asbestos Trusts' Motion to Quash or Modify Subpoenas [*DCPF Proceeding*, Dkt. No. 3];
- 4. Delaware Claims Processing Facility, LLC's (I) Motion to Quash or Modify Subpoena and (II) Joinder [*DCPF Proceeding*, Dkt. No. 4-2];
- 5. Aldrich Pump LLC and Murray Boiler LLC's Brief in Opposition to (A) Third-Party Asbestos Trusts' Motion to Quash or Modify Subpoenas; and (B) Delaware Claims Processing Facility, LLC's (I) Motion to Quash or Modify subpoenas and (II) Joinder [DCPF Proceeding, Dkt. No. 4-9];
- 6. Third-Party Asbestos Trusts' Reply in Support of Motion to Quash or Modify Subpoenas [*DCPF Proceeding*, Dkt. No. 6-2];
- 7. Delaware Claims Processing Facility, LLC's Reply in Support of its (I) Motion to Quash or Modify Subpoena and (II) Joinder [DCPF Proceeding, Dkt. No. 6-5];
- 8. Transcript for Hearing/Trial Held on November 30, 2022 [DCPF Proceeding, Dkt. No. 35];
- 9. December 19, 2022 Email from Morgan R. Hirst re: In re Aldrich Pump LLC, et al (Case No. 20-30608);
- 10. Debtors' Motion for Rehearing Concerning the Issue of Sampling on DCPF's Subpoena-Related Motions [*DCPF Proceeding*, Dkt. No. 54];
- 11. Declaration of Charles H. Mullin, Ph.D. [DCPF Proceeding, Dkt. No. 54];
- 12. Third-Party Asbestos Trusts' Opposition to Motion for Rehearing Concerning the Issue of Sampling on DCPF's Subpoena-Related Motions [*DCPF Proceeding*, Dkt. No. 70];
- 13. Declaration of Beth Moskow-Schnoll in Support of Third-Party Asbestos Trusts' Opposition to Motion for Rehearing Concerning the Issue of Sampling on DCPF's Subpoena-Related Motions [DCPF Proceeding, Dkt. No. 70];

- 14. Debtors' Reply in Support of Debtors' Motion for Rehearing Concerning the Issue of Sampling on DCPF's Subpoena-Related Motions [*DCPF Proceeding*, Dkt. No. 87];
- 15. Transcript for Hearing/Trial Held on March 30, 2023 [DCPF Proceeding, Dkt. No. 119];
- 16. Third-Party Asbestos Trusts' Motion to Quash Subpoenas and in Support of Stay [*Verus Proceeding*, Dkt. No. 2-1];
- 17. Verus Claims Services, LLC's Motion to Quash Subpoenas and to Stay [*Verus Proceeding*, Dkt. No. 2-6];
- 18. Respondents' Motion to Transfer Subpoena-Related Motions to the Issuing Court, the United States Bankruptcy Court for the Western District of North Carolina [Verus Proceeding, Dkt. No. 3-9];
- 19. Aldrich Pump LLC and Murray Boiler LLC's Opposition to (I) Third-Party Trusts' Motion to Quash Subpoenas and in Support of Stay; (II) Verus Claim Services, LLC's Motion to Quash Subpoenas and to Stay; and (III) Non-Party Certain Matching Claimants' Joinders and Motion to Quash [*Verus Proceeding*, Dkt. No. 5-2];
- 20. Third-Party Asbestos Trusts Reply in Further Support of their Motion to Quash Subpoenas[Verus Proceeding, Dkt. No. 5-10]; and
- 21. Verus Claim Services, LLC's Reply in Further Support of its Motion to Quash [*Verus Proceeding*, Dkt. No. 6-1].

EXHIBIT B

Expert Testimony in the Last 4 Years:

- 1. Grayson v. Gen. Elec. Co., No. 3:13-cv-01799 (D. Conn. Feb. 9, 2018) (Deposition Testimony);
- 2. *United States, ex rel. J. Scott v. Ariz. Ctr. for Hematology & Oncology*, No. 2:16-cv-03703 (D. Ariz. Aug. 21, 2019) (Deposition Testimony);
- 3. Arwood v. Broadtree Partners, LLC, C.A. No. 2019-0904-JRS (Del. Ch. Oct. 2020) (Trial Testimony);
- 4. Honeywell Int'l, Inc. v. N. Am. Refractories Co. Personal Inj. Settlement Tr. (In re N. Am. Refractories Co.), Adv. No. 21-2097-TPA (Bankr. W.D. Pa. May 2022) (Trial Testimony); and
- 5. Mann v. Nat'l Review, Inc., 2012 CA 008263 B (D.C. Super. Nov. 2020) (Trial scheduled for June 2023).

EXHIBIT C

Publications in the Last 10 Years:

- 1. Ryan Brill, Sameer Deshpande, Wyner, "A Bayesian Analysis of the Time Through the Order Penalty," Submitted to the JQAS, Published at https://arxiv.org/abs/2210.06724
- 2. Elizabeth Walshe EA, Elliott MR, Romer D, Cheng S, Curry AE, Seacrist T, Oppenheimer N, Wyner AJ, Grethlein D, Gonzalez AK, Winston FK, "Novel use of a virtual driving assessment to classify driver skill at the time of licensure," Transp. Res. Part F Traffic Psychol. Behav., 2022 May.
- 3. Elizabeth A. Walshe, Abraham J. Wyner, Shukai Cheng, Robert Zhang, Alexander K. Gonzalez, Natalie Oppenheimer, Daniel Romer, and Flaura K. Winston, "License Examination and Crash Outcomes Post-Licensure in Young Drivers: Are the youngest drivers most at risk?, 2022. JAMA Network.
- 4. "Is the Third Time Through the Order Penalty Real?," Abraham Wyner and Russel Walters, To Appear, SABR 2021 Conference.
- 5. Matthew Olson, Abraham J. Wyner, Richard Berk, "Generalizations of the Random Forest Kernel," KDD 2019.
- 6. Matt Olson and Abraham Wyner, "Modern Neural Networks Generalize Well on Small Data Sets," NIPS, 2019.
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EXHIBIT B

	Page 1
1	UNITED STATES BANKRUPTCY COURT
	WESTERN DISTRICT OF NORTH CAROLINA
2	CHARLOTTE DIVISION
3	X
	ARMSTRONG WORLD INDUSTRIES,)
4	INC. ASBESTOS PERSONAL) Miscellaneous Proceeding
	INJURY SETTLEMENT TRUST,)
5	et al.,) No. 22-00303 (JCW)
6	Plaintiffs,) (Transferred from
-) District of Delaware)
7	V.)
8	ALDRICH PUMP LLC, et al.,)
O	ADDRICH FOMF BBC, et al.,)
9	Defendants.)
	X
10	In re) Chapter 11
11	ALDRICH PUMP LLC, et al.,) Case No. 20-30608
12	Debtors.
	X
13	
14	DEPOSITION OF CHARLES HENRY MULLIN, PH.D.
15	Monday, May 8, 2023; 1:06 p.m. EDT
16	
17	
18	
1.0	Reported by: Cindy L. Sebo, RMR, CRR, RPR, CSR, CCR,
19	CLR, RSA, NYRCR, NYACR, Remote CA CSR #14409, NJ CCR #30XI00244600, NJ CRT #30XR00019500, Washington State
20	CSR #23005926, Oregon CSR #230105, TN CSR 998, Remote
20	Counsel Reporter, LiveLitigation Authorized Reporter,
21	Notary Public
22	Job No. 5905066

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Page 2 1 Deposition of CHARLES HENRY MULLIN, PH.D., 2 held at the law offices of Jones Day, 51 Louisiana 3 Avenue, Northwest, Washington, D.C. 20001, before 4 Cindy L. Sebo, Registered Merit Court Reporter, Certified Real-Time Reporter, Registered Professional 5 Reporter, Certified Shorthand Reporter, Certified 6 Court Reporter, Certified LiveNote Reporter, Real-Time 7 8 Systems Administrator, California Shorthand Reporter 9 #14409, New Jersey Certified Court Reporter, 10 #30XI00244600, New Jersey Certified Realtime Reporter 11 #30XR00019500, New York Realtime Certified Reporter, New York Association Certified Reporter, Washington 12 13 State CSR #23005926, Oregon CSR #230105, Tennessee CSR 14 #998, Remote Counsel Reporter, LiveLitigation Authorized Reporter and Notary Public, beginning at 15 approximately 1:06 p.m. EDT, when were present on 16 17 behalf of the respective parties: 18 19 20 21 22

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19	PETER CUMBO, Bates White (Via Zoom)	
20	ALLAN TANANBAUM, Vice President, Deputy	/ General
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21	Technologies (Via Zoom)	
22	JOSEPH GRIER, Claimants' Representative	9

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4	Armstrong World, et al. v Aldrich Pump LLC, e	t al.
5	Monday, May 8, 2023	
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2	INDEX TO EXHIBITS
3	CHARLES HENRY MULLIN, PH.D.
4	Armstrong World, et al. v Aldrich Pump LLC, et al.
5	Monday, May 8, 2023
6	000
7	(Exhibits Provided Electronically to Reporter.)
8	CM DEPOSITION
Ü	EXHIBIT NUMBER DESCRIPTION PAGE
9	
	Number 1 Declaration of Charles H.
10	
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13	Information, or Objects or to
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1	000
2	PROCEEDINGS
3	000
4	Washington, D.C.
5	000
6	Monday, May 8, 2023; 1:06 p.m. EDT
7	000
8	000
9	CHARLES HENRY MULLIN, PH.D.,
10	after having been first duly sworn by the certified
11	stenographer to tell the truth, the whole truth, and
12	nothing but the truth, testified as follows:
13	000
14	CERTIFIED STENOGRAPHER: Thank
15	you.
16	The witness is sworn.
17	MR. KAPLAN: Thank you.
18	000
19	EXAMINATION BY COUNSEL FOR NON-PARTY VERUS TRUST
20	000
21	BY MR. KAPLAN:
22	Q. Good afternoon, Dr. Mullin. I'm

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	Page 12	
1	Michael Kaplan. We met briefly off the record. I	
2	represent the nonparty Verus Trust.	
3	And I think I've drawn the short	
4	straw of of going first today, and maybe the	
5	only. We'll see.	
6	You have been deposed before,	
7	correct?	
8	A. Correct.	
9	Q. I'd be lying if I told you I didn't	
10	know that.	
11	So I'm going to give you the very	
12	abbreviated version of today's sort of ground rules	
13	so that we can't ever have a disagreement.	
14	You know all of your answers have to	
15	be verbal?	
16	A. Correct.	
17	Q. We have to do our best not to talk	
18	over one another, right?	
19	A. That's the goal.	
20	Q. Right.	
21	You understand you're testifying	
22	under the penalty of perjury, correct?	

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Page 13 1 Α. Correct. 2 0. You understand that from time to 3 time, maybe in response to every question, your counsel is going to potentially object to something 4 5 that I'm saying. Unless he instructs you not to 6 answer, you know you can answer, right? 7 8 Α. I have the option of answering, yes. 9 0. Okay. Lastly and, I think, most 10 importantly is if you don't understand my question, 11 I'd like you to tell me that you don't understand 12 it, and maybe we'll -- and I'll be able to rephrase 13 it for you so that you get a question you 14 understand. 15 If you answer, I'm going to assume 16 that you understood the question. 17 Correct? 18 That may be a poor assumption. Α. 19 If I answer, I had a clear 20 understanding of the question. I have no way of 21 knowing if that aligned with your intent of the 2.2 question.

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Page 14 1 So it doesn't necessarily mean that 2 your understanding and mine are the same; it just 3 means we both have one. 4 Well, the benefit will be that if you O. 5 think there's a problem with the question in any way, you shouldn't answer; you should tell me. 6 Because if you do, I promise you, when, we get to 8 court, I'm going to hold up the deposition 9 transcript and say you answered, so you understood. 10 All right? And I will tell the judge what I 11 Α. 12 understood, so it will be fine. 13 Terrific. And we will be off to the Ο. 14 races there. 15 Lastly, if you need a break in this 16 very, very short session, hopefully, that we 17 have -- we'll take one for sure, but please let me know at any time. 18 19 And, obviously, if there's any 20 question of privilege, somehow, that came up, we can stop, take a break and get the privilege issue 21 resolved and come back in. But I don't think we're 2.2

Page 15 1 going to have that issue today. 2 All right. 3 (Pause.) BY MR. KAPLAN: 4 5 0. So, Doctor, what is it that you're being -- being proffered as an expert in here? 6 I'm -- the proffer I don't control. 7 Α. 8 I've been asked to really explain the difference 9 between using a 10 percent sample or -- 10 percent 10 sample of what's really about a 3 percent sample of 11 the claims data already or using the 3 percent we 12 asked for in the \$12,000 in totality and how that would affect the precision of the ultimate analyses 13 offered in estimation down the road. 14 15 Q. Okay. My question was a little more 16 straightforward than that. Let me rephrase it for 17 you because it might be you didn't understand. 18 What is your expertise in? 19 Α. I'm trained as an economist. I have extensive expertise in statistics, econometrics, 20 21 economic modeling. I have applied those in a mass tort setting frequently. 2.2

Page 16 1 And probably most germane to this 2 process, I have expertise in estimating future 3 liabilities under various different sets of assumptions and -- which get into the estimation 4 5 process itself but in terms of the data inputs and how they affect that and the statistical properties 6 and, hence, the precision. 7 So it's really estimation and 8 9 statistics are probably the two applications, but 10 there's a lot of underlying training and expertise 11 that underlies those two areas. 12 Okay. Did anyone assist you in 0. 13 preparing your declaration that was submitted here? 14 Α. Yes. 15 Q. Okay. And who are those people? 16 Α. I couldn't give you a whole list 17 sitting here. My process -- I work with a team --18 Q. Okay. 19 -- and I draft reports with the team. Α. I ultimately review them and edit them to make sure 20 21 they reflect my opinions. And that work done is under my direction. 2.2

	Page 17
1	Q. Okay. And I'm going to mark for you,
2	just so that we have and we can get started with
3	it
4	MR. KAPLAN: Can we just call it
5	CM-1? Anyone have a problem with that?
6	MR. EVERT: Sure, that's fine.
7	MR. KAPLAN: CM-1.
8	It is your and I apologize for
9	those in Zoom world. I don't have electronic
10	copies to share, but it's Dr. Mullin's
11	declaration at Docket 55, filed on March 9th,
12	2023.
13	I do have copies for the room
14	some copies for the room.
15	000
16	(CM Deposition Exhibit Number 1,
17	Declaration of Charles H. Mullin,
18	Ph.D., marked for identification, as
19	of this date.)
20	000
21	BY MR. KAPLAN:
22	Q. Okay. Do you recognize this

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	Page 18
1	document, Dr. Mullin?
2	MR. EVERT: Hang on one second.
3	I just wanted to make sure, for
4	everybody on the phone, that they know
5	it's because he's filed more than one
6	declaration in the case. So it's Docket
7	it's the declaration at Docket 55 is
8	the declaration filed in association with the
9	I believe with the Motion for
10	Reconsideration, although
11	MR. KAPLAN: Sure hope it is.
12	MR. EVERT: Yeah, that's right.
13	MR. KAPLAN: Okay.
14	BY MR. KAPLAN:
15	Q. You recognize that document,
16	Dr. Mullin?
17	A. I do.
18	Q. Okay. And the team that you talked
19	about in the process you use is that what you
20	used to prepare what we're calling CM-1?
21	A. Correct.
22	Q. Okay. Do you know how many hours you

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	Page 19
1	spent in preparing this?
2	A. I do not.
3	Q. Okay. How much time did you spend
4	preparing for your deposition today?
5	A. Specifically for the deposition?
6	Probably five to eight hours.
7	Q. Okay. Did you speak to anyone
8	besides counsel about your deposition today?
9	A. I spoke with a couple members of my
10	team.
11	Q. Okay. And what did you talk about
12	there?
13	A. So, first, I'll clarify what I mean
14	by "prepare," because that will give context, which
15	is I reviewed Dr. Wyner's rebuttal report
16	Q. Okay.
17	A and so I talked to my team about
18	that report and talked to principally, that was
19	the main topic of conversation with my team.
20	Q. It was about Dr. Wyner's report?
21	A. Correct.
22	Q. Okay. We'll get to that at some

	Page 20
1	point today.
2	Did you meet with counsel in advance
3	of the deposition?
4	A. I did.
5	Q. Okay. How many hours did you meet
6	with counsel for?
7	A. In terms of this is the topic?
8	Around an hour, maybe an hour and a
9	half.
10	Q. Okay. And when was that?
11	A. So a meeting on Thursday or Friday of
12	last week and then a little bit of time before the
13	start of the deposition this morning.
14	Q. Let me just say this: The document
15	which we've showed you as CM-1, this declaration
16	for the motion for reconsideration is this the
17	only document that you are planning on relying on
18	in the for the June 6th hearing?
19	MR. EVERT: I'm sorry. Let me
20	ask, when you say "document," do you mean
21	declaration?
22	MR. KAPLAN: I'm sorry.

Page 21 1 Declaration. Bad wording. Yes. 2 THE WITNESS: I don't know the technicalities of it. I had a similar 3 declaration that I think was in response to 4 5 an action in New Jersey, and I don't know the technicalities of how that transfers over. 6 7 But there's a lot of overlap in the content 8 of those two. But, really, the content 9 across those would be the focus of that 10 testimony as I see it. 11 BY MR. KAPLAN: 12 Ο. Okay. Are you preparing any kind of 13 supplemental declaration in response to Dr. Wyner? 14 MR. EVERT: I'm just going to break in, Michael. 15 I think we agreed we weren't going 16 17 to do that, that this was going to be his 18 supplemental declaration. 19 You weren't part of those 20 discussions, so I apologize for jumping in 2.1 and answering the question, but -- yeah. So 22 I think, at least from a legal perspective,

	Page 22
1	we would be relying on any declarations
2	Dr. Mullin has filed that are applicable to
3	the Trust discovery issue; but, no, he's not
4	going to file his deposition is going to
5	serve sort of as his response.
6	MR. KAPLAN: Excellent. All
7	right. Good. That will short-circuit some
8	of some of those questions.
9	BY MR. KAPLAN:
10	Q. I apologize, Dr. Mullin. I was
11	not were you present at the March 30th, 2023
12	hearing that sort of preceded this round of
13	exercises we're doing right now?
14	A. I was present at a hearing. If that
15	was the date of it
16	Q. Yeah.
17	A probably.
18	MR. EVERT: Yes, he was.
19	MR. KAPLAN: He was there.
20	BY MR. KAPLAN:
21	Q. Okay. Excellent.
22	All right. So I want to focus you in

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Page 23 1 on -- on, really, two questions -- two sets of 2 questions today -- others may have other questions, 3 but I want to focus you in on two. The first is that judge's question about why sampling doesn't 4 5 work for the Debtors' side, and the second is why sampling wouldn't reduce the risk of even human 6 error of missing some PII being disclosed. 7 8 Okay? 9 Α. Okay. 10 All right. By background, have you Ο. offered an expert opinion previously on the 11 12 sufficiency of a sample side? 13 Α. Yes. 14 MR. EVERT: In any case? 15 MR. KAPLAN: In any case. 16 MR. EVERT: Okay. 17 BY MR. KAPLAN: 18 Q. How many of the cases? 19 I couldn't give you a count. Α. 20 it's a common topic in the insurance coverage work 21 that I've done, so it comes up frequently in that 2.2 context. So that's going to be the principal

Page 24 1 context. 2 I've done sampling in, I guess --3 with the Consumers Finance Bureau [sic]. There's 4 probably other cases as well, but I've used 5 sampling in an array of different positions. How about in any type of mass tort 6 O. case? 8 Α. Most of those insurance coverage 9 actions involve mass tort claims --10 Ο. Okay. 11 -- so definitely, in relation to mass Α. 12 torts, I've given opinions on sampling before. 13 Ο. Okay. Can you recall the last time 14 you gave an opinion on sampling in -- in a mass 15 tort case? 16 Α. It's common. I'd have to go look. I 17 don't know the last time I did it. 18 Okay. And you said in the insurance Q. 19 context. 20 Who is it that retained you in those contexts -- in those cases -- excuse me, not 21 2.2 contexts, cases?

Page 25 1 Α. I've been retained by policyholders; 2 I've been retained by insurance companies; I've 3 been retained by reinsurance companies, whether it's reinsurance and insurers in litigation, and 4 5 retrocession errors. So it's kind of up and down the line. 6 Sampling is common regardless of who 7 8 my clients are in those contexts. 9 Ο. Okay. You were involved in the -- in 10 the Mallinckrodt case, correct? 11 Α. Correct. 12 What was it that you did there? Q. 13 Α. I was retained relatively late in 14 There was a settlement in place. that case. 15 were objectors to that plan, and I was brought in to discuss the reasonableness of the settlement --16 17 Q. Okay. 18 -- with regard to opioid claimants in Α. 19 particular was the emphasis of that. 2.0 Okay. If you flip to Page 17 of 30, Ο. 21 the ECF page numbers on the top of your declaration, there is a list of selected 2.2

Page 26 1 experience. 2 Does that document help refresh your 3 recollection at all in terms of the case in which 4 you offered an expert opinion on sampling, outside 5 of this case, of course? In general, this is the cases I'm 6 Α. allowed to publicly disclose at this point --8 Q. Okay. 9 Α. -- so there's numerous cases on this 10 list where I would have offered opinions on sampling. 11 12 Can you give me an example of -- of Ο. 13 an opinion -- again, obviously, we can only ask you 14 about publicly available cases and you can only disclose publicly available cases. 15 16 So looking at this list, which is the 17 universe we're working off here, can you give me an 18 example of a case which you offered an opinion on 19 sampling in? 20 Some of the analyses that are in the 21 public domain of what I've done on the Aearo 2.2 bankruptcy originally dealt with the 1 percent

	Page 27
1	sample that had been drawn in the MDL
2	Q. Okay.
3	A so I didn't design that sample,
4	but I utilized that sample.
5	(Whereupon, the witness reviews the
6	material provided.)
7	THE WITNESS: Fourth bullet on
8	what's Page 18 of 30
9	BY MR. KAPLAN:
10	Q. Yeah.
11	A is the Consumer Finance Protection
12	Bureau case in which I've designed and utilized a
13	sample.
14	(Whereupon, the witness continues to
15	review the material provided.)
16	THE WITNESS: I had input in some
17	of the sampling discussions in Bestwall. I
18	was not ultimately the person who signed off,
19	but I had input into those.
20	(Whereupon, the witness continues to
21	review the material provided.)
22	THE WITNESS: There was some

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Page 28
sampling in the ACE Bermuda Insurance versus
3M arbitration.
(Whereupon, the witness continues to
review the material provided.)
THE WITNESS: The General Re-SCOR
matter, about two-thirds, three-quarters of
the way down Page 19, had sampling.
(Whereupon, the witness continues to
review the material provided.)
THE WITNESS: My recollection is
there was sampling in the bottom two on that
page.
MR. EVERT: That would be the
AIU Insurance and the THAN?
THE WITNESS: Yep.
(Whereupon, the witness continues to
review the material provided.)
THE WITNESS: I believe the fourth
bullet on Page 20, the National Indemnity
matter there versus the State of Montana.
I believe the next one, Newco
versus Allianz, had sampling.

Page 29 1 The U.S. Silica versus Ace matter 2 two-thirds the way down the page had 3 sampling. I think the third from the bottom, 4 5 Cannon Electric versus Affiliated, had sampling. 6 7 The Goodrich matter, penultimate 8 one on the page, had sampling. 9 I did a lot more insurance work 10 earlier in my career, and we're going to 11 start to get a long list of them if not, we 12 can keep going if that's sufficient. 13 BY MR. KAPLAN: 14 Let me stop you there for a second --Q. Let me stop you there, which is -- in -- in 15 16 the cases that you identified on these first few 17 pages -- and I understand there's potentially 18 more -- were you a proponent or opponent of 19 sampling in those cases? 20 I don't really view it as either. Α. 21 Q. Okay. 2.2 I mean, I'm trying to work towards Α.

Page 30 1 getting sufficiently precise opinions for the 2 parties to resolve a matter. And it's fact-specific as to any given matter whether 3 sampling or a census or some other process is 4 5 what's going to be most efficient in getting to 6 resolution of the case, in reality. 7 And so that's really how I approach 8 I'm neither pro sampling or against 9 sampling. I'm what's going to work most 10 effectively in a given setting. 11 So let me understand. Q. 12 Is it your testimony that different 13 cases can have different outcomes with respect to 14 sampling in terms of whether it's efficient or not efficient? 15 Correct. It's a cost-benefit 16 Α. 17 analysis --18 Q. Sure. -- and you're looking at that 19 Α. 20 cost-benefit analysis, which is going to be 2.1 fact-specific to the case. And sometimes it makes 22 sense to look at the census.

2.2

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In this case, for example, we are using the entire Debtors' historical claims database. We're not saying let's use a 10 percent sample of data already in electronic format. We're saying no, we use all of it because it's all already in electronic form. And that's going to, on a cost-benefit analysis, make sense as opposed to sampling from the historical claims data.

You know, in contrast, when you look at claim files in the case and you say what historical claim files might want to get produced and reviewed, that's an expensive operation; you do sampling.

So in one case, you turn over everything because it's already in electronic format. In the other case, because there's a large volume of manual labor and cost and time, you use a sample.

So even within this case, there's places where my opinions are use all the data, and there's other places where it's use a sample of the data. It's not one or the other; it's what makes

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Page 32 1 sense for the question at hand and the facts at 2 issue. 3 0. Let's look at -- see if I can put this into some specifics here. 4 5 You said that you offered an opinion on sampling in the Aearo Technologies case, 6 correct? 8 Α. I said I used -- I had opinions that 9 utilized a sample --10 Ο. Okay. 11 -- and I utilized the 1 percent Α. 12 sample that was preexisting from the underlying MDL 13 proceeding. 14 All right. And in your opinion, was Ο. 15 that sample sufficient for the purpose you were 16 using it for? 17 Α. For the scope of the opinion I was 18 doing, I mean, it was a constraint. It was the 19 only thing available at the time, so it more 20 prescribed the strength of the opinion I was able 21 to offer. 2.2 So by construction, it was sufficient

Page 33 1 for the opinion I offered. With more data, I could 2 have offered a more refined opinion. 3 Ο. Okay. How about in the Consumer Financial Protection Bureau case? You said you 4 5 offered an opinion -- I don't want to misstate it -- that utilized sampling or on sampling. 6 Which was it? 7 8 Α. I designed the sample on that case --9 Q. Okay. 10 -- it involves literally millions of Α. So it would be completely time 11 phone calls. 12 prohibitive to have people listen to the millions 13 of phone calls and do something comprehensive. 14 from a cost-benefit analysis, it was necessary 15 there to use sampling. 16 Ο. I think you said you participated in 17 Bestwall, but I think we all understand you didn't 18 offer the principal opinion there, correct? 19 I haven't filed any declarations or Α. 20 reports in Bestwall. 21 Okay. Good. Q. 2.2 How about -- you said ACE Bermuda --

Page 34 1 you utilized a sample there? 2 Α. Correct. 3 And what was the context in that Ο. 4 case? 5 Α. Well, it's a Bermuda form insurance action, which I think means it's all 6 confidential --7 8 Q. Okay. 9 Α. -- so I don't think I can really tell 10 you the substance of it outside of it's insurance 11 coverage. 12 Okay. That makes it a little Ο. 13 difficult to -- how about let's go down to the 14 bottom of the page to the AIU versus 15 Philips Electric that's in Delaware Chancery? 16 Public that you can talk about? 17 Α. I know the two -- the general 18 theme -- the two that are there are connected to 19 each other. It's really the same opinion in both. 20 They both stem from the THAN Trust. And AIG and 21 the THAN Trust had coverage litigation, and they 2.2 were seeking discovery on the underlying records

Page 35 from the THAN Trust itself. 1 2 0. Okay. And what was it -- how did the 3 opinion on sampling work in there? I have a recollection sampling was in 4 Α. it, but I don't recall, sitting here. 5 I haven't reread that even if I have it still. I don't think 6 those are both in the public domain, but I'm not 7 8 100 percent certain of that. 9 0. It's in the SDNY. Everything is in 10 public there. 11 Have you ever offered an expert 12 opinion on data privacy before? 13 Α. No. 14 All right. Do you have any type of Q. 15 specialized training in data privacy? 16 Α. I don't know what you consider 17 specialized. We have an entire technological 18 services department; we have HITRUST certification; 19 we have SOC 2 certification. Part of all of that 2.0 certification is training for everybody at 21 Bates White, including myself. So I've had all of the training that goes with those certifications. 2.2

	Page 36
1	This is where, if you say
2	"specialized," I think HITRUST would say some of
3	that is specialized, but I'm not sure what you mean
4	by that.
5	So I've gone through the training
6	that goes along with the company getting all of the
7	security credentials.
8	Q. Okay. Have you taken any beyond
9	what the company is is offering, any specific
10	type of coursework on data privacy?
11	A. No.
12	Q. Do you have any certifications, you,
13	yourself, in data privacy?
14	A. No.
15	Q. All right. Have you ever been
16	proffered as an expert in data privacy previously?
17	A. No.
18	Q. Okay. And finally I'm fairly
19	certain I know the answer to this, but if you tell
20	me "yes," I'm going to be pretty surprised which
21	is is you're not a lawyer, correct?
22	A. No.

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1	Q. All right. We're off to a good
2	start.
3	You're not qualified to offer a legal
4	opinion on the question of law, right?
5	A. That's a whole different question,
6	but I don't intend to offer any.
7	Q. Are you qualified to offer a legal
8	opinion on the Federal Rules of Civil Procedure?
9	A. I don't intend to offer any.
10	Q. Not my question.
11	Are you qualified to offer an opinion
12	on the Federal Rules of Civil Procedure, in your
13	view? This is only your view.
14	A. No.
15	Q. Okay.
16	All right. I showed you before if
17	we can flip back to the meat of your sort of
18	your declaration there, CM-1.
19	Anything in there that needs to be
20	corrected before we dive into it?
21	A. Not that I'm aware of.
22	Q. All right. Excellent.

Page 38 1 All right. In looking through the 2 declaration, Dr. Mullin, can you point me to which 3 paragraph or paragraphs contain your opinion on why the proposed 10 percent sample is not sufficient 4 5 for the Debtors? (Whereupon, the witness reviews the 6 7 material provided.) THE WITNESS: I think the core of 8 9 that starts in Paragraph 15 --10 BY MR. KAPLAN: 11 Q. Okay. 12 -- and probably runs through Α. 13 Paragraph 18 of how the data would be used in broad brush strokes. 14 15 Ο. Okay. And is it your opinion that a 16 10 percent sample is not sufficient for the 17 purposes? 18 So it's my opinion that on a Α. 19 cost-benefit assessment, which is how you decide 20 whether you should sample or not, the benefits 21 greatly outweigh the costs here, so it makes sense 2.2 to get those benefits when they outweigh the costs.

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So it's going to allow me an estimation to give a much more precise answer and address some questions that otherwise I may not be able to address or quantify reliably, so it -- so, yes, because it passes that cross -- cost-benefit analysis.

- Q. Okay. Yeah, the -- is your entire opinion related to the sufficiency tied to just cost-benefit?
- A. I mean, that is the fundamental principle of designing a sample and when do you sample and when don't you, so you can't really answer these questions about is sampling appropriate or not in the absence of talking about what it costs.

If there's zero cost to having all the data, you should use all the data because you'll be more precise, and why would you give up the precision? If it's impossible to get all the data, it's a silly exercise to talk about what would happen if we did get it. So the two are -- can't be separated, the -- what are the benefits, what are the things that the data enable you to do

Page 40 1 and what's the cost of gaining access to that data. 2 That's the trade-off of sampling 3 So to -- you can't answer questions absent always. that framework about sampling. 4 5 Okay. Let me try it this way: Why is -- why is a 10 percent sample not sufficient for 6 the stated purposes? 8 Well, so I think this is a place where we need to clarify. One, the Debtors have 9 10 over 400,000 historical claims. I have not asked for 400,000 data through counsel as a request to 11 12 assist in our work. We asked for 12,000; less than 13 3 percent. 14 So this isn't like the examples where 15 the Trusts say, Federal-Mogul asked for 435,000 16 Claimants; they asked for 12,000; 3 percent. So I 17 was prudent. I did take into a sense the costs of this, and I asked for 3 percent through counsel to 18 19 get data on a very limited set of 3. And now I'm 20 being asked to go, for the sake of the analysis, 21 from 3 percent to .3, 10 percent of 3 percent.

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So you're going to say it's

2.2

Page 41 1 10 percent? 2 I think you're asking me to take 3 .3 percent of the available data, not 10, and move from what was already a request for 3 down to .3. 4 5 So if we're going to say 10 percent, let's make sure it's 10 percent of 3 percent, which 6 I think is the intent of your question. But I want 8 to make that very clear, if that's how we're going to use the terms. 9 10 Ο. Well, let's see -- let's drill down 11 on that because I don't represent the Debtor as, 12 you know; I represent one non-party. 13 So can you explain to me how it is 14 you're getting from this 10 percent to 3 percent to 15 .3 percent? Because I'm not -- I'm not following. 16 Α. Okay. 17 So the Debtors have faced hundreds of 18 thousands historical claims in the tort system. 19 Some requests that have gone to the Trusts from 20 prior parties have requested their entire 21 historical data, so hundreds of thousands of claims. 2.2

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I don't think I need that. I have tried to filter this down in how we think about this request. We asked for 12,000. We -- I already said, anything before 2005, it's not going to give me enough information that I need to go after that right now.

I eliminated all dismissed claims.

Dismissed claims have been produced in other contexts. They were produced in Garlock. They contain a little bit of information that would help but not a lot. That's -- 80 percent of the mesothelioma claims, for example, against Murray resulted in dismissal. I've already eliminated those. I've constrained it to just mesothelioma claims.

So it's not that I asked for the ocean through counsel in these requests. I'm seeking for estimation a very targeted subset that's going to be most informative. That's about 3 percent of the historical Claimants. I'm seeking information on those three through the subpoenas -- or, really, the Debtors, on my behalf, are seeking

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Page 43 1 So that's where I'm saying we're starting at 2 3 percent. And now others are saying, Let's go 3 from 3 to .3, take 10 percent of that 3 percent. 4 Okay. So you're talking about the Ο. 5 totality of the universe; you aren't being specific to -- for instance, I represent the Verus Trusts. 6 Are you familiar with those? 7 8 Α. Yes. 9 0. Okay. Your testimony is that 10 in -- in looking at the information the Verus Trusts potentially possess as a whole, that's how 11 12 you're drilling down from 10 percent to 3 percent 13 to .3 percent, correct? 14 Α. No. 15 Q. Okay. 16 Are you only looking for -- what is 17 the limitation on the Verus Trust, then? 18 So the Debtors, Aldrich and Murray, Α. 19 combined have over 400,000 -- received claims on 20 behalf of 400,000-plus Claimants. So if you wanted to collect information on all the historical 21 Claimants that have brought claims against the 2.2

2.2

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Debtors, you would be asking a request for over 400,000 people.

That's not what the request was. It was for 12,000, around 3 percent of the universe of historical Claimants that these two Debtors have received claims from.

So it started targeting at 3 percent, 3 out 100, and so it's the universe of Claimants who brought tort claims against the Debtors' prepetition. That's the initial universe.

- Q. Is it your testimony that the Verus
 Trusts possess 400,000 Claimants' worth of
 information?
- A. I think you can look at reports, and they have more than 400,000 Claimants that filed claims against entities by the Verus Trusts, but what's the overlap -- the question of what's the overlap between the 400,000-plus the Debtors faced and which ones are in -- file a Trust claim against Verus. But the Verus entities have received more than -- claims on behalf of more than 400,000 individuals.

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Page 45 1 O. Let's try it this way: What is it 2 that the Debtors need -- excuse me. 3 Strike that. What is it that you need this 4 5 information for that you asked the Debtors to go get it? 6 So when estimating future 7 Α. liabilities, there's a few different steps in that 8 9 process. One is, how many future people will 10 develop mesothelioma with the types of 11 characteristics that would make them compensable 12 against these Debtors? 13 When doing that exercise, the 14 industry and occupational work backgrounds of Claimants matters. That affects the odds that they 15 16 will be compensable. So when you're doing this 17 forecast, you'd really like to break Claimants down 18 into industry and occupational groups that have 19 different levels of valuation associated with them. 2.0 So one of the things that this data 21 provides is, in electronic form already, a rich set of industry and occupational work history 2.2

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information, so you're able, then to forecast by different industry and occupational groups because they have different demographic characteristics. So some of those groups taper off more quickly, so the claims would decrease faster. Some will decrease more slowly.

So to get a more precise estimate of the number of future claims that the Trust would receive, you really want to do the analysis by industry and occupational groups; that both gives you a more precise estimate of the totality of the liability and, probably just as importantly, it helps you better protect future Claimants relative to pending Claimants. Because when you do this type of a forecast, forecasting the number of claims the Debtor would have received one year post petition, that's easy, relative to forecasting the number of claims the Debtor would receive 20 years post petition.

The further into the future you go, the more uncertainty. And so we want to minimize that because we really don't want to be in a

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position where future Claimants are getting paid less than the pending Claimants, so improving that forecast is important.

- Q. Okay. Any other reason the Debtor needs the information?
- A. So there's a second piece besides -that uses that same type of information to help you
 design a claims resolution process and then,
 similarly, helps you show that that claims
 resolution process is feasible at confirmation, so
 you're using it for those purposes as well.

Depending on the exercise you're doing, but, in particular, under what is often the Plaintiff's theory in these cases, you're trying to do an estimate of what Claimants would have been paid in the tort system; and that's something that varies by both industry, occupation but also law firm, jurisdiction.

And so when you start asking these questions, it may be that only 100 of the 1,200 claims apply to a question of interest, so that's constrained to a 1,200-claim sample, but only one

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in 12 go to a subpopulation that I need to estimate something on behalf of; now I have only a sample size of 100 to answer that question. And that's not sufficient.

So when you start peeling down, if you really want to ask a question that's just one average for the whole population, 1,200 claims, in general, would be enough. But as soon as you start saying there's a subpopulation of interest, like maybe pipefitters and electricians are different from carpenters, maybe certain jurisdictions are different from others, so you need to look at a subset, I no longer get to look at 1,200 claims, and so I need those subsets to also be big enough to give reliable opinions and accurately estimate the future.

- Q. Okay. So let me -- is it -- before we go further, any other reasons why you ask the Debtor to go get this information?
- A. There's what's the bulk of

 Paragraphs 15 and 16, which is really what fraction

 of a Claimant's exposures were known to the Debtors

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Page 49 at the time of settlement. So that's the thrust of 1 2 Paragraphs 15 and 16 in my declaration, so that's 3 another issue where this information would be 4 important. 5 Ο. All right. Let's start with that one, which is you say, What information was known 6 to the Debtors at the time of settlement? 7 8 That is, it's -- how does that help 9 advance the ball of the case? 10 MR. EVERT: I'm going to object to 11 the form of the question. I'm not sure what 12 you're asking. 13 THE WITNESS: So little bit of 14 history: Key aspect of the Garlock case was 15 that Judge Hodges found that not all that information had been revealed and concluded 16 17 that tainted the tort history, so 18 extrapolating historical tort settlements 19 into the future wasn't appropriate. 2.0 The Plaintiffs assert -- and it 21 may turn out to be true -- that post Garlock, 2.2 that behavior stopped.

Page 50 1 BY MR. KAPLAN: 2 0. What behavior specifically? 3 Not revealing the totality --Α. 4 suppressing information or not revealing --5 0. Okay. -- all the alternative exposure 6 Α. information. 7 8 Whether or not that stopped is an 9 empirical question. For mine, maybe that did stop 10 completely. Maybe it's identical to what was in 11 Garlock. I don't have an opinion about that. 12 want to look at the data and have the data tell me, 13 is that going on or not going on. 14 That was a very salient fact in the 15 estimation in Garlock. I would expect the outcome 16 of that empirical exercise to be a salient fact 17 here. So that speaks directly to an aspect of what 18 you could potentially rely on a tort system 19 settlement for or not. So that's one spot where 20 answering that question is going to directly enter 21 into an estimation process. 2.2 Q. Okay. I want to show you the -- this

	Page 51
1	is just an exemplar subpoena of one. I believe
2	they all were fairly similar, but this was one that
3	was issued to the ACandS Asbestos Trust in
4	connection with the when it was grouped
5	in New Jersey.
6	MR. KAPLAN: We'll mark this as
7	CM-2, and I have copies to share with
8	everybody.
9	(Sotto voce discussion.)
10	000
11	(CM Deposition Exhibit Number 2,
12	Subpoena to Produce Documents,
13	Information, or Objects or to Permit
14	Inspection of Premises in a
15	Bankruptcy Case (or Adversary
16	Proceeding), marked for
17	identification, as of this date.)
18	000
19	BY MR. KAPLAN:
20	Q. Take a look at that, and let me know
21	whenever you're ready.
22	MR. KAPLAN: Just for those on the

	Page 52
1	Zoom world, the cover page is not filed
2	anywhere, but the thrust of what I'm about to
3	talk about is filed at
4	MR. EVERT: It's the order
5	granting the subpoenas
6	MR. KAPLAN: Yeah, Docket 1240.
7	Yep.
8	MR. EVERT: right, Docket 1240
9	in the main case.
10	MR. KAPLAN: Yes.
11	BY MR. KAPLAN:
12	Q. All right. Have you seen that
13	document again, I want to focus in on the order
14	here, Dr. Mullin.
15	Have you seen this document before?
16	A. I believe I've seen the order before.
17	Q. Okay. Excellent.
18	I want to focus you in on Paragraph 5
19	of the order, which is, I believe, what we were
20	just covering a moment ago, which talks about what
21	the subpoenas are seeking evidence for.
22	Do you see that?

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1	A. I do.
2	Q. All right. And I believe that the
3	first thing you spoke to me about was the the
4	estimation of the Debtors' liability for current
5	and future asbestos-related claims and the
6	negotiation, formulation and confirmation of the
7	plan, correct?
8	MR. EVERT: I'm sorry.
9	Could you repeat that question?
10	MR. KAPLAN: Sure. I'm just
11	trying to he gave me if I recall, there
12	were three areas which he gave me to
13	BY MR. KAPLAN:
14	Q that you needed the data for: One
15	was forecasting; one was call it claims
16	resolution and and the Trust distribution; and
17	the third I'll generally refer to as the "Garlock
18	problem."
19	Okay?
20	Did I get those right, those three
21	what the three purposes?
22	A. So estimating liability, of which you

	Page 54
1	have a lot of inputs into, the Garlock problem is a
2	subset of that, if it exists. You know, so there's
3	estimating liability; and there's designing the
4	plan; and then there's showing the plan as feasible
5	in confirmation.
6	Q. Okay.
7	MR. ANSELMI: I'm sorry.
8	Could you repeat that last answer?
9	I couldn't hear.
10	Or could you repeat it back, what
11	the answer was?
12	00
13	(Whereupon, the certified
14	stenographer read back the pertinent
15	part of the record.)
16	000.
17	MR. ANSELMI: Okay.
18	BY MR. KAPLAN:
19	Q. So that's what I was trying to drill
20	down on, what this is.
21	Your testimony is that this this
22	if we look at the colon past "specifically,"

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Page 55 1 there's a semicolon, and then we get to -- The 2 estimation of the Debtors' asbestos liability is 3 the second phrase or clause there, correct? 4 Α. Correct. 5 And that's where your testimony is is 0. that the -- determining whether that there was a 6 similar issue in Garlock falls in? 7 Correct. This is broken out a little 8 Α. 9 different, probably the phrase before that 10 semicolon --11 The reliable basis --Q. 12 -- in this context, is probably where Α. 13 the Garlock part falls; but yes. 14 Okay. And this "permitted purposes" Q. term is a defined term that I didn't design, but 15 16 I'm going to go with it. 17 You see that term there which talks 18 about the permitted purposes? 19 Α. I do. 20 Okay. My question is this: Ο. respect to the first permitted purpose, the 21 2.2 determination of whether prepetition settlements of

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mesothelioma claims provide a reliable basis for estimating the Debtors' asbestos liability, is it your opinion that a 10 percent sample would not be sufficient?

A. For most aspects of that, I'm actually constraining myself to a 10 percent sample already.

So for most aspects of that -- like, for example, whether or not all the exposures have been revealed -- there's a comparison of Trust data to underlying Claimant information as collected from the claim files, that's being envisioned as a comparison of claim file sample to the Trust data and would likely be done with approximately 1,200 Claimants.

So for most of the things that I think would fall under that, the 10 percent sample is already being used, because it would be -- that's where the claim file production, which is not already in electronic format so has a different level of expense associated with it, has a different cost-benefit analysis. And so that's the

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Page 57 1 binding constraint on addressing the bulk of what 2 would fall under that first item. 3 Ο. Okay. How about with respect to the estimation of the Debtors' asbestos liability -- is 4 5 it your opinion that a 10 percent sample would not be sufficient for that? 6 "Sufficient" is probably not the term 7 Α. I would use. 8 9 Could I perform an estimate with a 10 10 percent sample if constrained? Yes. That 11 estimate would have a much broader range of 12 uncertainty about it, and so the Court would have 13 less guidance; the Trust would have a higher risk 14 of not reserving enough funds for future claims. So this is a question of precision, 15 16 riaht? It's -- is it worth gaining the extra 17 precision for whatever costs are associated with 18 producing those data? 19 It's still feasible to give an 20 opinion, but you're just going to have a lot less 21 precise about that opinion. 2.2 Let's stop there for a second with Q.

Page 58 1 respect to precision. 2 Can you quantify how much less 3 precise 10 percent would be versus, say, for example, a 12 percent sample size? 4 5 So there are areas where I was comfortable doing that. You know, I did drop all 6 the dismissed claims from the request. I dropped 8 everything that wasn't a mesothelioma from the 9 request. So there's areas where I felt like I had 10 the information to have confidence that constraining myself to 3 percent of the historical 11 12 claims that the Debtors have received would still 13 leave me in a position where I hadn't given very 14 much up in terms of precision. Beyond that, it's very hard to 15 16 quantify until you have the data, because you don't 17 know what you're going to find. 18 So, for example, if you take the 19 Garlock-style question, if it turns out that the 2.0 assertions of the Plaintiffs' bar is validated and all exposures are being revealed in a 21 contemporaneous manner, that issue just drops out 2.2

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of the estimation. So I wouldn't need a large sample size if it turns out -- for that question if it turns out it never happens.

In contrast, if it happens but it only happens in select jurisdictions or for select types of claims, then I need a lot more data, potentially, to address that.

So saying exactly how much data you need and the critique that Dr. Wyner said, if I haven't quantified it, that's because it's not actually quantifiable at the moment, but you're taking a big risk for -- you know, on that front.

On other aspects, like estimating claims by industry and occupation group, I haven't run it in this particular context, but I know the -- for example, the occupational exposure curve for construction claims goes out about 10 years further as a shift from lots of traditional industrial exposures. So having a good understanding of that can move your estimate 5 or 10 percentage points.

And so knowing the breakdown of those in a fulsome manner could easily add, you know, 5

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Page 60 1 or 10 percentage points of precision to the type of 2 estimate you're making, and that would be -- when 3 you're talking hundreds of millions of dollars, 5 4 or 10 percentage points can be a lot of money. 5 You know, I haven't done all that I don't have the data, so I don't know 6 exactly what it's going to move it. 8 something you can't know until after the fact. 9 Again, I'm trying to understand if 10 there is a way to -- so I think I understand you said it's not quantifiable, but let me just make 11 12 sure. 13 The precision of a 10 percent versus 14 a 15 percent sample size -- again, this is all 15 before you have the data -- you're not able to 16 quantify the mathematical difference in terms of 17 how precise they would be? 18 So there are places where you could Α. 19 be concrete. 20 Ο. Okay. 21 Α. So if you took, for example, a law firm that has 400 resolved claims and now we take a 2.2

2.2

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10 percent sample of 400 paid claims during the sampling period. Now we take a 10 percent sample; we'd expect to get 40. If it turns out that breaking that law firm out and doing analyses by a law firm is important, I now have a sample size of 40, which is going to have three-and-a-half times the uncertainty of what I would have had with 400. 400 for that law firm probably would be enough; 40 is almost assuredly not. And so now, I'm going to introduce a whole bunch of uncertainty.

Most of the law firms have well under 400, so there's only a handful of law firms that have more than 400 paid claims during this period, so is -- for all but a handful of them, if you needed to do something by law firm, you'd want the totality of the available claims out of the 12,000.

There's a couple that have more than 4- or 500 claims, but it's only a couple. So that's an example where I know which law firms I'll need to break out and treat separately -- I don't know yet. When we do financial reporting work, it's common to break out 10 or 20 law firms in the

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analysis to get the most precise estimate of what we would expect in the tort system.

So I expect I have to break it out by law firm. I expect that analysis to matter materially to the precision. And if I only get 10 percent, I'm going to lose an awful lot of information from there and my work is going to be materially less precise.

- Q. How much less precise?
- A. So at the law firm level, you're going to be, again, more than tripling the amount of uncertainty. The baseline level of uncertainty is unknown. You're tripling the uncertainty, but you don't know the baseline until the data comes in and you do the analysis. So that's not answerable; the relative loss is.
- Q. Okay. Let me turn to the sort of last point there, and then I'll take a break for a couple of minutes.

The development and evaluation of

Trust distribution procedures for any plan of

reorganization confirmed in these cases, the third

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purpose.

2.2

Okay?

Is a 10 percent sample sufficient for that purpose?

A. It may turn out to be sufficient for some occupational groups you'd want to look at and almost assuredly insufficient for others. So, again, it's similar to law firm. Until you've done the work, you don't know how you're going to bundle those groups together, but it's typical to have multiple groups.

The smallest groups are frequently the most highly paid claims, so you have a very high per-claim value in a CRP for relatively small number of people fitting it, is the typical fact pattern. So you're expecting the place that the precision matters most to be the place exactly where getting a 10 percent sample instead of all the data is going to cause you the biggest problem because it may only be that 5 percent of the claims are in that group; and so then, instead of having 1,200 claims to work with, suddenly I have 60. And

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1	60 is not going to be enough for almost any
2	reasonable statistical analysis.
3	In contrast, 600 would be.
4	Q. Is it your testimony here that there
5	is no percentage, in terms of sample size, that
6	would be sufficient?
7	MR. EVERT: I'm just going to
8	object. I don't think that's what he said.
9	I think the problem is with the word
10	"sufficient," but
11	THE WITNESS: I think quite to the
12	opposite
13	BY MR. KAPLAN:
14	Q. Okay.
15	A I didn't I asked for 3 percent
16	of the data to start with.
17	And so the context that's being lost
18	in your questioning is before the Trusts ever
19	received a request, I had already concluded I don't
20	need this for 97 percent of the Claimants to do my
21	work and get to a sufficiently precise estimate.
22	So quite to the contrary, I'm more

	Page 65
1	saying 3 percent's sufficient; .3 is not. Taking
2	away 90 percent of the 3 percent request? No, that
3	wouldn't be sufficient; the 3 percent is.
4	So I did that work up front and
5	constrained the request to only 3 percent of the
6	data.
7	MR. KAPLAN: Okay. All right.
8	Why don't we take five minutes here? Try to
9	actually make it five minutes, if we can. If
10	not, it will be 10.
11	We'll go off the record.
12	00
13	(Whereupon, a recess was taken from
14	1:59 p.m. EDT to 2:10 p.m. EDT.)
15	00
16	BY MR. KAPLAN:
17	Q. All right. Dr. Mullin, we're back
18	from the break.
19	Any reason you can't continue?
20	A. No.
21	Q. Okay. Not at least this break.
22	Before we left, you said, a couple
	ı

	Page 66
1	different times you were talking about you
2	had there was a universe of 400,000 claims which
3	you limited to which you said was 3 percent of
4	that and then took it down to .3 were being
5	asked to take it to .3 percent.
6	Do you remember we were discussing
7	that?
8	A. Yes.
9	Q. Okay. The 400,000 claims that you
10	that the claims universe was starting with are
11	they all mesothelioma claims?
12	A. No.
13	Q. Okay. Approximately how many of the
14	400,000 are mesothelioma claims?
15	A. I don't know the exact count.
16	Q. That's why I asked for an
17	approximation, because I figured you didn't.
18	A. More than 25,000, less than 50
19	Q. Okay. And were you asked to do an
20	analysis of nonmesothelioma claims?
21	A. Estimation is currently constrained
22	to mesothelioma claims, but any plan of

Page 67 reorganization will have to address all claims. 1 2 So for the purposes of the current 3 scope of estimation, mesothelioma claims is what is 4 needed, but eventually you'll have to design a 5 claims resolution process for all claims. Okay. And you also talked about 6 Ο. claims -- you eliminated claims that were dismissed, correct? 8 9 Α. Correct. 10 Ο. Were you asked to analyze claims that were dismissed? 11 12 Α. Yes. 13 0. Okay. And how is it that you would 14 be analyzing the claims that were dismissed? 15 Α. A fundamental question when valuing 16 claims is which ones will be dismissed and which 17 ones will be paid. So you often compare the 18 characteristics of dismissed claims to paid claims. 19 If you only look at characteristics 2.0 of paid claims and say these characteristics are 21 associated with payment, it may turn out that those exact same characteristics are also associated with 2.2

Page 68 1 claims that don't get paid. So you -- to figure 2 out what subsets of claims would be paid, dismissed 3 claims are relevant. How about -- where do administrative 4 Ο. 5 settlements factor into your analysis? Α. So administrative settlements, in 6 many ways, for estimating liability make the 8 problem more difficult because, frequently, in the 9 context of administrative settlements, underlying 10 Defendants and these Debtors, in particular, have not gone through as exhaustive a discovery process, 11 12 so they contain less information about the 13 characteristics of those claims. And understanding the characteristics of the actual claims is 14 15 relevant for projecting the number of future 16 claims. 17 Ο. Okay. So I think you said just a moment ago that you were approximating somewhere 18 19 between 25- to 50- mesothelioma claims of the 2.0 universe of 400. 21 Did I get that right? It's thousands on end of all of those 2.2 Α.

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Page 69 1 numbers, but yes. 2 0. For -- yes. Let's get that right for 3 the record purposes because, otherwise, one of us 4 will try and use it later. 5 Α. Don't know which one that would be. You can bank on that --6 Ο. 7 MR. ANSELMI: It depends. 8 BY MR. KAPLAN: 9 0. -- you can bank on -- no, I'm 10 kidding. 11 Your testimony was, if I'm correct, 12 that of the 400,000 or so claims, you believe that 13 25- to 50,000 are mesothelioma claims? 14 Claims, yes. Claimants -- it might Α. 15 be a little lower. I'm -- 80 percent of the Murray 16 claims were dismissed; 50 percent of the Aldrich 17 claims are dismissed. So you need more than double the 12,000 because, over half, you have a dismissal 18 19 rate even for one that's half and 80 percent for 20 the other. So that's really where I got to the 21 lower number of about 25,000. 2.2 But it could go -- how much higher

Page 70 1 than that it goes -- that could go -- I haven't tabulated it. So it's more than 25,000, and I'm 2 3 confident it's less than 50- but probably closer to 25 - than 50 - .4 5 Ο. And the subpoenas that brought us all together on this lovely spring day in 6 Washington, D.C. -- they are seeking information 7 8 about mesothelioma -- mesothelioma claims, correct? 9 Α. The request was constrained to 12,000 10 mesothelioma claims; that's correct. Okay. So how is it that we get to 11 Q. 12 the 3 percent, .3 percent when you have -- you're 13 looking for information from 12,000 mesothelioma --14 mesothelioma Claimants out of 25- to 50,000? That 15 seems like a higher percentage. I'm not a 16 statistician, but . . . 17 Α. I answered this question before, 18 which is there's over 400,000 Claimants. I chose 19 not to -- I chose -- I asked -- I did not ask the 20 client to seek information on nonmesothelioma Claimants despite the fact that those could be 21

relevant for designing claims resolution processes

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1	or claim or claim feasibility. They could still
2	be helpful in terms of the questions that are
3	relevant, but they are not as important as the
4	mesothelioma.
5	So I made a choice to constrain and
6	not ask for anything that wasn't mesothelioma.
7	Q. You would agree with me that if there
8	were, for example, 25,000 mesothelioma Claimants
9	total, 12,000 is just shy of half, right?
10	A. It would be 48 percent if there were
11	25,000. I can do that math on the fly.
12	Q. Thank goodness, because all the
13	lawyers in the room were looking for their iPhones.
14	All right. That's that's
15	48 percent.
16	And if it were 50,000, can you do
17	that math on the fly?
18	A. Just multiply by 2, so 24 percent.
19	Q. Excellent.
20	So that's not 3 percent, correct?
21	A. It's more than 3 percent of the
22	mesothelioma claims. I always said it was

Page 72 1 3 percent of the approximately 400,000. And I've 2 been clear with you the whole time that that was 3 all diseases. So if you switch the denominator, the 4 5 percentage will change no matter -- and you can switch it to anything else, and it will be a new 6 percentage, too. It's not what I was saying before. 8 9 I was actually using the universe of 10 claims historically brought against the debts is 11 what's north of 400,000. 12 Right. And we agree that the Ο. 13 universe of mesothelioma claims are lower than 14 that, correct? 15 Α. Correct. They have claims of people 16 without mesothelioma. 17 0. Let's turn back -- let's look at 18 Paragraph 15 of your declaration, which is CM 1 for 19 the record purposes. 20 And certainly feel free to look at 21 whatever, but I want to focus in on the last 2.2 sentence.

Page 73 1 Whenever you're ready, Doctor, the 2 last sentence in Paragraph 15. 3 Α. Yes. 4 Yeah. So what you're talking about Ο. 5 here is that -- provide more data that will improve the quality of our estimation and 6 claims forecasting work. 7 And we've talked a lot about this 8 9 previously. 10 Do you see that? 11 Α. I do see that. 12 The number that we're sort of arguing Ο. 13 about in the context of this hearing are 14 somewhere -- a number between 1,200 claim files and 15 12,000 claim files, correct? Can we agree on that? 16 Α. I think these are electronic records, 17 not claim files. But 1,200 -- 12,000 Claimants --18 the information on 12,000 Claimants versus the 19 information on 1,200 Claimants. 20 Okay. Let's talk -- let's use Ο. 21 Claimants, then, so we're both saying the same 2.2 thing.

Page 74 1 We're talking about the difference 2 between 1,200 Claimants and 12,000 Claimants, 3 correct? 4 Α. Correct. 5 All right. How much -- can you 0. quantify for me how much getting the, say, 2,400 6 Claimant files would improve the estimation in 7 8 claims forecasting? So -- and what you can do 9 Α. 10 definitively is talk about what's the relative 11 improvement in precision. This is actually a place 12 where Dr. Wyner and I don't disagree. The basic 13 statistical formulas move with the square root of 14 the sample size. So if you quadruple the sample 15 size, you double your precision. You take the 16 square root of the relative movement. 17 So asking to take a 10th of the 18 sample is asking you to slightly more than triple 19 your level of uncertainty in everything you're 20 doing. 21 So we're going to present things to the Court that have three times -- a little bit 2.2

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more than three times the uncertainty about them than if we had the 12,000. We know that's going to be the relative impact.

Q. Let's start with the 1,200 out of the 12,000.

What -- can you quantify the level of precision there?

A. Again, it depends on the question.

So I don't disagree with what Dr. Wyner put in,
where he said, If you're asking the question about
a proportion for the totality of the population.

He applied that formula correctly.

If, on the other hand, you want a proportion for one law firm, and that law firm has 300 records that now we only sampled 30, you're going to apply that same formula to a population or a sample of 30 and you're going to have very large confidence intervals. You can apply the same mathematical formula. I don't do those in my head. But you will have confidence intervals that are quite broad that -- in my experience, broad enough that most courts would say, that's not very

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files.

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precise; I don't know if we're going to rely on it.

So it's a question of how large of a subpopulation are we able to analyze. And that's, I think, the main difference between what Dr. Wyner was looking at and myself. He's implicitly assumed you always only care about a question for the entire population so you get to use all 1,200

And as soon as you go to questions that involve a subset of the population -- maybe the liability differs by gender, and you want to look at females separately, but they're only 20 percent of the Claimants.

Now, if gender matters, I don't have 1,200; I have 240. I don't have 12,000. I'm already down to a 20 percent sample, in essence, because only 20 percent of the Claimants are female.

So as soon as you start looking at subpopulations of interest, 1,200 within a subpopulation would be sufficient, but there's many subpopulations that would have less than 1,200 if I

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take a 10 percent sample.

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- Q. Is there a way to design the sample so that it addresses the subpopulations you're interested in?
- A. You could attempt to mitigate. So you could say I want 1,200 females out of the 2,400 or so females, if you were to -- out of the -- yeah, 2,400 out of -- if it's about 20 percent, and then 1,200 males. You could make it bigger, and that might address that question.

But then if you go to law firm -- if there's a law firm that only has 300 claims -- Dr. Wyner and I, I think, agree that 30 claims is not enough. We'll probably learn in his deposition whether he thinks 30 claims is sufficient, but, you know, at 300, we'd probably agree -- I don't want to put words in his mouth, but -- on the statistical formulas, that you'd need all 300.

So for any law firm that has less than somewhere usually in the 3- to 500 range, most statisticians are going to say you really need to look at all of them if you want to be able to use

Page 78 1 that data to make projections about the future. 2 Ο. Let's talk about -- turning back to 3 the -- the 10 percent sample that is being discussed here, is there a way to design the sample 4 5 size to address the stated purposes that you're looking for? 6 You can mitigate, right -- you can 7 Α. 8 mitigate the risk. And that is what you do in 9 sample design. Whenever you take a sample, you're 10 always taking a risk that you actually won't have the information you need. It's in -- it's 11 12 intrinsic to sampling. 13 And the smaller you make the sample, 14 the greater that risk becomes because the ultimate 15 answer is only known after the fact. You don't 16 know ahead of time. 17 And so, in this context, yes, you can 18 design things that mitigate that risk, but you 19

can't eliminate it. And the smaller you make the sample, the greater that risk becomes.

And sitting here today, can you give Q. me -- can you quantify what the risk is if the

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Court were to order just the 10 percent sample, or 1,200 Claimants?

A. As I said, I can't give you a specific number because that's not known until after you have the data and you do the analysis.

That said, in general, if you want to forecast liability, particularly if you want to forecast what Claimants would have received in the tort system, you need to control for law firm and jurisdiction. Those are two things that, when I do financial reporting disclosure work, I will control for. When you're looking at future tort system spend, you control for those two elements.

If you start controlling for those two here and you look at a law firm in a given jurisdiction, there's only a couple law firms and jurisdictions that have more than 400 claims. So in those, maybe you could sample, and you would still end up with more than 10,000 claims, because for the vast majority, this -- you're already at a size where you wish you had more data.

Q. Maybe I just missed it.

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I guess your testimony -- am I correct your testimony is you cannot quantify the risk sitting here today, put a number on it? If the sample -- what I mean -- by "quantify," I mean it's only 30 percent reliable or 40 percent reliable or 50 percent reliable.

A. So, ultimately, the Court, in my experience, is who tells me whether it's reliable or not. What I tell the Court is what's the uncertainty of the estimate.

And so every time you tell me to triple my uncertainty, I get nervous. If three different inputs all tell me to triple my uncertainty -- this is one input into estimation. Now the uncertainty is 27 times as big.

Going into a court where I might have been able to say, Here's an estimate plus or minus 30 million, you tell me to triple, and now I have to say, Here's an estimate plus or minus 90. But I have another input that also adds uncertainty of threefold. Now, instead of plus or minus 90, it's plus or minus 270.

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Each uncertainty interacts with the other ones, and they -- it's more multiplicative in nature. So it's not that this is the only parameter that matters and creates uncertainty; there are others. And as you fold them, they start to get larger.

So this is a place where sampling at 10 percent will likely approximately triple the uncertainty for key inputs into the model.

Tripling that uncertainty means I'm going to triple my confidence with the uncertainty at the end.

And I don't see the costs as justifying that, given the benefit of being able to triple my precision and the guidance I give a court, when, in the best case, a scenario is already going to be you have tens of millions of uncertainty; so now you're going to triple that. That's adding an awful lot of uncertainty -- tens of millions at least of uncertainty to the estimate.

So you said "quantify." Going to the 10 percent sample will add tens of millions of

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Page 82 1 uncertainty, maybe 100 million. I don't know. 2 haven't done that work. But it will be at least in 3 the tens of millions based on historical 4 experience. When you say "uncertainty," can you 5 0. explain what it is you mean there? There's 6 factors -- is that factors or variables you can't 8 account for? Or what is that? 9 Α. I would have less data to be able to 10 refine an estimate. So that future estimate will have greater statistical -- that will add 11 12 statistical uncertainty on top of the other types 13 of uncertainty that already exist. And so it's 14 going to expand any level of confidence you have in 15 an estimate; "expand" in the sense of degrade your 16 confidence, expand the uncertainty. 17 Ο. Let's look at Paragraph 16, which 18 is -- again, I'm focusing on the end of it, which 19 is where you say, This would enable us to quantify

the proportion of alternative exposure disclosed to the Debtors at the time of settlement.

You see that?

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Page 83 1 Α. T do. 2 0. Is it your testimony that the 1,200-Claimant sample is not sufficient for that 3 4 purpose? 5 Α. No. It is sufficient for that purpose? 6 Ο. I'm actually -- the sample of claim 7 Α. 8 files were going to juxtapose that with this 9 currently approximately 1,200. So that compares --10 that requires the comparison of the two. So that's already being envisioned for that specific question 11 12 of only looking at 1,200. 13 And that's really motivated by the 14 cost of producing and reviewing claim files, because they're not already in electronic format. 15 16 If all that information was in electronic format, 17 I'd use more data than that, but it's not, so the 18 cost is materially higher. 19 Paragraph 17, you talk about The Ο. 20 variations in disclosure patterns would allow us to 21 model the impact of the partial information on 2.2 settlement amounts.

Page 84 1 Do you see that, Doctor? 2 Α. I do. 3 Is it your testimony that a Ο. 10 percent sample of 1,200 Claimants wouldn't be 4 5 sufficient for that purpose? It may be. And, initially, that's 6 Α. what I'm going to try to do it with because, again, 8 I'm only going to have that quantified for the ones 9 that are contrasted with claim files. 10 If you learn, for example -- a complete hypothetical -- say Claimants represented 11 12 by counsel -- or counsel represented by 25- -- let 13 me get it right. I'll start that over. 14 Let's say there's a subset of law 15 firms that represent 25 percent of the historical 16 Claimants, where a small fraction of the exposures 17 are being disclosed, but for the law firms that 18 represent the other 75 percent of Claimants, almost 19 everything's been disclosed. 20 I may not have enough data for that 21 25 percent, but then I would do a targeted 2.2 follow-up of -- to try to fill that information in,

Page 85 1 and -- as opposed to asking for it over the whole 2 universe. 3 So I really view this as a two-step process: the first, which is really Paragraph 16, 4 5 where, if at all, is full disclosure not occurring, which gets -- so for which claims is the --6 Paragraph 17 even a relevant question. 8 And then not knowing the answer to 9 that, I view this as -- I may be able to do it with 10 1,200. I may need to supplement at some point to 11 get precision. 12 Okay. Short of a -- I think you Ο. 13 referred to it as a "census" or a "population," 14 when you talk about all the claims. 15 Correct? That's what you're 16 referring to? 17 You said in your report a couple 18 times, you know, a census -- a population-level 19 census analysis. 20 That would be all 12,000, correct? 21 Α. Correct. 2.2 Q. Okay. Is there a number -- you know,

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as you said a moment ago, it's the judge who's going to tell you what ultimately is reliable, and I would probably agree with that statement to the extent that I'm sure you're going to give the judge an opinion on what number he should come out at.

Is there some number short of 12,000 that you are comfortable opining to the judge would be sufficiently reliable for the purposes we discussed?

A. As I said, I went about this really asking that question ex ante and how could I minimize the size of the request counsel would make on my behalf for data. And I already -- the things that I was comfortable eliminating, I've eliminated, which got me down to the 12,000. And so I've gone through that process already.

So I'm not at the point where I'd say I'm comfortable making it smaller. You can do all the analysis with a sample of 1,200; you can do all the analyses with a sample of 6,000. You'll just have less precision.

Whether that precision turns out to

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be binding on the ultimate reliability in the Court's eyes, one, it's a question for the Court; but, two, it's where those numbers work out at the end.

If you could give an estimate that was plus or minus, you know, a dollar and it became plus or minus \$3, the Court would probably be fine with that; but if it was plus or minus 50 million, it became plus or minus 150 million, the Court may really not be okay with that. That may be too broad of a range.

But that's where, when you say

"trip" -- when I think of it as tripling my

uncertainty, until you've done the work, I don't

know if I'm going -- no, I'm not going from \$1 to

\$3; I can't be that precise -- but I don't know if

I'm going from 50 to 150 million or if I'm going

from 20 million to 60 million. I don't know the

answer to those things until I've done the work.

Q. Again, I want to focus you on just the mesothelioma claims, because that's what -- what we're talking about here is -- your testimony

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Page 88 is that you are not prepared to offer -- to suggest 1 2 that any number short of 12,000 is sufficient, 3 correct? 4 Object to the form of MR. EVERT: 5 the question. THE WITNESS: Again, "sufficient" 6 I -- I don't think is the right term, which 8 is why I struggle with answering that 9 question. I think you are taking unnecessary 10 risks relative to the cost of data production 11 to reduce it further. And I would advise 12 against it. 13 BY MR. KAPLAN: 14 Okay. I'm using "sufficient" because Q. I believe the Judge's words were "doesn't work." 15 16 So let me ask it this way, which is: 17 Is it your testimony that only the 12,000 Claimants 18 will work for the Debtors' purposes? 19 I'll try this a different way, see if Α. 20 we can get on the same page. 21 No statistician can tell you the 2.2 sample size you need before the data is produced in

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a discovery exercise like this to say the number of claims at which it will work. What happens is the more claims you get, the higher the probability that it will work becomes.

So it's not -- whether you -- there's almost no difference, right, if you give 12,000 claims or 11,999. The odds that that 12,000th claim was the linchpin to take you from working to not working is almost zero, right? But at the same time, no one can tell if you go from 12,000 to 11,000, that may be what swings it. Going from 11 to 10 may be what does.

But as you shrink, the odds that the analysis you would want to perform to give the Court better guidance would become unfeasible. And it's a statistical probability. It's not a known thing until you have the data and it's after the fact.

It's like default risk in that sense. As somebody becomes riskier, their odds of default goes up. But it doesn't -- you don't know yet if they're going to default or not; you just know the

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odds are up.

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As you shrink the sample size, the odds that you won't be able to give sufficient guidance rise.

- Q. Let me just see if we can get on the same page -- I appreciate that -- which is is can you estimate and forecast based on 1,200 Claimants?
- A. It is feasible to do all the math, and you will have a broader confidence interval, so you will give up precision. But you -- you will get an estimate with a substantially broader confidence interval of degree of uncertainty about that estimate.
- Q. Can you quantify the proportion of alternative exposures disclosed to the Debtors at the time of settlement with the 1,200 Claimants?
- A. As we said before, that's what I'm trying to do, is I'm using the 1,200 for which -- the claim files. That sample isn't finalized yet, but that's the size that's being discussed of the claims result for positive payment -- would be using those 1,200 and comparing those to the Trust

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Page 91 1 data to do that. 2 My intent is to do that. I am 3 optimistic that will work. I can't quarantee it. 4 And if you needed to supplement, you may, for 5 certain law firms, need to supplement additional claim files, but you would already have the Trust 6 data necessary. 8 0. Can you create the model you discuss 9 in Paragraph 17 and the impact of partial 10 information on settlement amounts with the 1,200 Claimants? 11 12 Α. Not as a materially higher 13 probability of not being feasible with the 1,200 14 than the analysis in Paragraph 16, but it depends 15 on how large of a subpopulation actually is failing 16 to disclose all of the exposures contemporaneously. 17 It's really going to hinge on the 18 answer to a question that is unknown until we 19 observe the Trust data. 20 So let me just ask it this way, which Ο. is easiest: I know you're talking about the 21 reliability of the model. Can you create the model 2.2

Page 92 1 you're envisioning with the 1,200 Claimants? 2 Α. You can do it mathematically. 3 it result in a level of precision -- I'll phrase it 4 differently. 5 I can always do the math, but if the precision is lacking sufficiently, it should still 6 be thrown out on Daubert because you don't have 8 sufficient quidance. There are standards where you 9 can't just say, Here's an estimate; I have no idea 10 how accurate it is. You actually need to give sufficient precision for someone to rely on it. 11 12 The Court ultimately decides what 13 that level of precision is; I don't. But I can do 14 the math. It doesn't mean that the math will 15 produce a number that the Court finds useful. 16 So the model can mechanically work. 17 But will it provide sufficient guidance to be 18 deemed reliable by the Court? The odds that the 19 answer to that is no go up as you shrink the sample 2.0 size. Turn to Paragraph 19 of your 21 Q. Okay.

declaration, if we could. You talk about cost and

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benefits of sampling, which is in a -- I have some -- just specific questions for you here, which is, let's start with, What kind of sample is it that's being proposed here?

Assuming that the 1,200 would be -- is how the Court -- what they stick with, what kind of sample is being proposed?

- A. Stratified random sampling.
- Q. Is there a different type of sample that would be more or less reliable -- or let's just stick with more reliable.
- A. So ex post, again, once you know the answer, you can always go back and design a better sample than the one you did ex ante because you have more information.

So when you design a sample, you use historical experience to guide you on where there's likely to be more information or what types of Claimants are more important to the questions that you're asking, so the stratification is imposing certain assumptions. If those assumptions turn out to be directionally correct, then the sample

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Page 94 1 stratifying will be more efficient than taking a simple random sample. 2 3 There's really good reasons to 4 believe that, for example, oversampling the 5 high-value claims will lead to more precision. could turn out not to be true, but in almost every 6 case like this in the past, almost every case I've 8 ever done that's involved a mass tort, that 9 produces greater efficiency than not doing it. 10 Ο. Okay. Let's skip ahead a couple minutes here, and I want to talk to you a 11 12 little bit about the Court's second question, which 13 is the -- why sampling wouldn't reduce the risk of 14 even just human error, missing some of the PII being disclosed. 15 16 Where in your declaration is it that 17 you're discussing that? 18 MR. EVERT: While he's looking, 19 Andrew and Michael, I was going to say 20 earlier, the declaration sort of says what it says, so I'd object. It's something that 21

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limits the paragraph he picks, but I hear --

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Page 95 1 I hear the fair point of your question. 2 (Whereupon, the witness reviews the 3 material provided.) The bulk of that 4 THE WITNESS: 5 information expands Paragraphs 23 to Paragraph 30. 6 BY MR. KAPLAN: 7 8 Ο. And these are the paragraphs that 9 talk about the process in place to scrub the PII, 10 correct, as well as the base and what's the ability to maintain that information, or are we looking at 11 12 different ones? 13 Α. That is part of the content. 14 Outside of what is contained in --Ο. 15 and, again, I certainly appreciate counsel's 16 point -- outside of what is contained in this -- in 17 these paragraphs, are you going to offer any other 18 opinion as to why the proposed 10 percent sample, or 1,200 Claimants, doesn't reduce the risk of PII 19 20 being disclosed? 21 So for the Claimants themselves -- I Α. mean, I don't know -- I don't think this is 2.2

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inconsistent with what's in here in any way, but for the Claimants themselves, Bates White already possesses the PII. If we don't have the PII, it's not in the request. It's only people where we know the name and we know the Social Security number.

We're never asking the Trust to send us PII. So the only PII that's at risk that would be incremental would be information that

Bates White actually doesn't want. It's information that was in an exposure field that, as I understand it, the Delaware facility is going to take a pass at redacting that. Bates White has its own obligation to redact that. So it has to be in the field to start with, failed to get redacted by the Delaware facility, failed to get redacted by Bates White, and then have a data breach.

So if we had 12,000 Claimants, if
5 percent of the Claimants had a field with some
additional PII, 99 percent of it gets redacted by
Delaware, 99 percent of what they gets missed gets
redacted by Bates White, you're talking .01
incremental piece of PII, when you would have

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Page 97 1 already 12,000 people's PII in a data breach. 2 So going from 12,000 people to 3 12,001, I don't want to be trivial about anybody's PII, but it's one more out of 12,000. So when you 4 5 say, is this materially increasing the risk that already exists, going from 12,000 to 12,001, that's 6 not a particularly material increase. 8 So this process, this specter that's 9 being put out there for this, is so remote that, 10 no, I don't put a lot of weight on it, because by the time you go through two levels of redaction and 11 12 you need a data breach on top of it, you know, this 13 is not going to produce a material number of people 14 relative to the PII that is already out there. 15 Ο. When you say "out there," you mean 16 already in Bates and White's system? 17 Α. Well, it's in Bates White; it's in the Debtors', it's in Verus; it's in the Delaware 18 19 facility --20 Ο. Sure. -- it's with, you know, Ankara, if 21 Α. 2.2 they downloaded the claims database; it's with LAS.

Page 98 1 I mean, all the various parties working in the case 2 who have the Debtors' database or have the same 3 Claimants in a different context also all have that 4 PII, so all of these parties, in general, possess 5 the PII to start with. You're not fundamentally changing that risk. 6 You talked a moment ago about a data 7 Ο. 8 breach. 9 Are Bates and White's systems 10 infallible? 11 Α. I don't think there's any system 12 that's infallible. 13 Ο. Okay. Are you aware of whether 14 Bates and White's systems have ever been breached 15 prior to today? 16 Α. They have not. 17 Ο. In any form at all? No hacks? No 18 phishing? No nothing? 19 I'm not talking about the Claimant 20 files. 21 So my technical services people will Α. 2.2 tell me people attempt to breach our systems

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Page 99 1 multiple times every day. That's probably the 2 training that all of you get, too, right? 3 We've never had a data loss. 4 A breach, has somebody ever clicked 5 on a link somewhere, but there's so many layers of security, it doesn't go anywhere. 6 We've never had a data loss. 7 8 You know, what you call a "breach," 9 depending on how you define that, every single 10 entity in the world has. If you say, Did any of your employees ever click on a false link, then 11 12 every organization has. So -- but did it result in 13 anything? 14 Bates White has never had a data 15 loss. Okay. And when you say -- I want to 16 Ο. 17 make sure that we're talking about the same thing 18 because this would be a scenario where we -- we 19 would talk past each other. 20 Are you aware of proprietary 21 information on Bates White's system ever being accessed by an external actor? 2.2

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	Page 100
1	A. No.
2	Q. Okay. Your testimony is not that
3	Bates and White's Bates and White cannot be
4	hacked, correct?
5	A. As I said, I don't think there's any
6	system out there
7	Q. Right.
8	A that it's impossible for a
9	sufficiently motivated party to potentially hack.
10	MR. EVERT: If the Russian
11	government wants your data, they can get your
12	data.
13	MR. KAPLAN: I'm fairly certain
14	they have mine, so I'm okay with it already,
15	just to be clear.
16	MR. EVERT: We heard that, but
17	(Laughter.)
18	MR. KAPLAN: Yeah. It's because
19	I'm a Philadelphia fan; they have everyone's.
20	BY MR. KAPLAN:
21	Q. You agree with me, Doctor, that you
22	can't be 100 percent certain that the data will not

Page 101 1 be improperly accessed, correct? 2 Α. I agree. I don't think anybody in 3 any -- I mean, I don't think the data sitting at Verus or the Delaware facility can be 100 percent 4 5 certain. There's no such system. Thankfully, they're not sitting here 6 0. for your deposition today, so I'll ask them another 8 time, maybe. 9 All right. Let's turn now, as 10 promised much earlier, to Dr. Wyner's report. 11 MR. KAPLAN: And we'll mark this 12 as -- I think we're up to 3, correct -- to 3. 13 I was able to keep track of that, look at that. 14 15 --000--16 (CM Deposition Exhibit Number 3, 17 Expert Report of Abraham J. Wyner, 18 Ph.D., marked for identification, as 19 of this date.) 20 --000--21 MR. KAPLAN: I don't know how many 2.2 I printed so . . .

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1	(Sotto voce discussion.)
2	BY MR. KAPLAN:
3	Q. Given that you've seen this
4	before, correct, Dr. Mullin?
5	A. Correct.
6	Q. I believe you said you were
7	discussing it with your team in advance of today.
8	Which part or parts of Dr. Wyner's
9	opinion is it that you take issue with?
10	MR. EVERT: I object to the form
11	of the question.
12	Is that really fair?
13	Do you want to walk him through
14	each paragraph, or do you want to
15	MR. KAPLAN: I just want to know
16	what he disagrees with. You told me he's not
17	going to produce a rebuttal report, so I'm
18	not going to get an opportunity to hear to
19	get it on a line-by-line. I want to know
20	what he's got an issue with here.
21	MR. EVERT: Do you think you can
22	do that?

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THE WITNESS: I'm going to be talking for a while. That's a very broad, open question. I'm happy to answer it, but I'm going to ask you not to ask follow-up questions until I finish, because I need to give a complete answer if we're going to do that. I don't want to get segued halfway through by a follow-up and then be told that, no, you didn't finish and so that's it.

BY MR. KAPLAN:

- Q. You have my absolute word. I'm ready for you to tell me what it is you have an issue with.
 - A. Start on Paragraph 6.
 - Q. Okay.
- A. He says, As described in detail below, it is my opinion that a random sample -- a random 10 percent sample of 1,200 Claimants would fulfill all of the Debtors' reasonable needs.

He never defines "reasonable needs."

He never defines "all." So he's made this blanket statement with a universal qualifier. And at no

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point he -- does he -- he covers two specific questions in his report, two. He entirely ignores the question that the 90 percent of the data that the Trusts are requesting that not get produced would be used. He only addresses two questions, where my intent was to only use the 10 percent of the data that would be produced in the sample.

So if -- and the critique is, On the questions where Dr. Mullin's already only going to use a 10 percent sample, a 10 percent sample suffices; ergo, it suffices for everything.

The latter doesn't follow. He addressed the two places where I'm already constraining myself to a 10 percent sample and saying, There, it's enough.

He doesn't talk anything outside of that scope anywhere. Yet it doesn't even define what those other reasonable uses would be, yet has this universal statement with no backing anywhere in the report.

So at its highest level, you can put almost every complaint I have under that category.

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I don't think he has any idea how I'm going to use the data. I don't know how he could.

I'm going to go forward and do an estimation report. I've given broad categories of how I would use that. And he's made a statement that "all reasonable" ways.

As we talked through earlier, I expect to have to condition things on law firm and jurisdiction because that's frequently very important.

It may turn out not to be here, but it's much more likely that it would be than not. And he has no opinions about what happens as soon as you need to address the subpopulation. All of his opinions are assuming I'm only looking at the entire universe at once, that he's disclosed here at least.

And so I expect to have to look at subpopulations. Jurisdiction, law firm would be a key one. Gender could easily come up as one, you know, and industry and occupational groups. I expect to use that data to put people into

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clustered groups that behave similarly and then do extrapolations based on each of those subgroups.

So he has entirely ignored what happens when only a subset of the sample is applicable to the question of interest.

And if you look at simple tabulations in the data, like paid mesothelioma claims by law firm, paid mesothelioma claims by gender, paid mesothelioma claims by jurisdiction, you see really quickly that if you sample, you're not going to have enough data to answer those questions.

You know, so at a big level, that's the overarching problem with his whole report.

He very much mischaracterizes the testimony of my partner, Dr. Jorge Gallardo-Garcia. He asserts in Paragraph 8 that Dr. Gallardo-Garcia clearly states that sampling is sufficient.

He does not state that. If you go read his report, he makes it clear that there's a court order that constrains him to 10 percent, and within that, he's going to design the most sufficient sample -- the most efficient sample he

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can -- but he actually is explicit that that's not what he believes is best, but he's got an external constraint forcing him.

To that point, I speak with Dr. Gallardo-Garcia on a regular basis. His office is a few doors from mine. I know that is not his opinion. So I don't know how he's reaching that when you read that report in totality, but it is explicitly wrong.

There's an irony. Well, he complains that At no point does Dr. Mullin quantify the potential loss of accuracy.

I think he very much knows that is an exercise you can't do ex ante when the very data you're seeking is fundamental to what subpopulations you need to analyze later. That's an impossibility.

The irony is, he reaches a conclusion that the 10 percent sample is enough in a cost-benefit without ever quantifying the cost. So if he's going to complain that you have to quantify an element of it and he's reaching the opposite

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conclusion without ever quantifying the loss, the cost, and his -- one of his clients has done this exercise, so one of his clients has already redacted information for a different request.

in the dark and saying, How often does this PII show up in these exposure fields, there's one -- one of his clients knows the answer to that in the context of DPMP. He either didn't ask him for that, they didn't disclose it to him, but he could know, oh, that occurs in one in a thousand records, one in 100 records, one in two records, which could greatly inform this question.

He could also ask them, when they did their redaction process and their quality control on it, did they think they eliminated half of them? Ninety-five percent? Ninety-nine percent? So how many do you think slipped through?

He's silent even though his client actually has done this exercise once and has the data. So the person who could actually quantify the cost whose client has access to know exactly

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how many records have this information and presumably has done quality control on that process to know what their rate of eliminating it is, he stays silent on, you know, that information. Yet he concludes at the same time, even though his client has this data, that the cost-benefit analysis isn't justified.

So if we had that information, you would be able to be much more precise. I gave a hypothetical; 5 percent of the fields have it; 99 percent get cleaned up by the facility; 99 percent get cleaned up of what was missed by Bates White to get to 0 or 1.

The first two numbers in that, they actually know. So those are knowable. So are we really looking at a handful of PII coming through? Thousands? I hope not thousands of records, given they went through that process. But he doesn't access any of that even though his client has it.

As an expert, if my client has information directly on point and doesn't share it with me -- you should ask for it; hopefully, they

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Page 110 1 volunteer it. So I'm -- that part confuses me as 2 to why that's not in his report, given he has access. As I said, there's an irony because he has 3 the ability to quantify and stays silent. 4 5 Going back to Paragraph 9, the second sentence, Such a sample has already been discussed in the Bestwall declaration, which does not 8 identify any attribute of the population that 9 cannot be accurately studied with a sample. 10 The purpose of that declaration is 11 not to answer that question. The purpose of that 12 declaration is to say, What's the most efficient 13 sample we can get, given a third-party constraint 14 that it's at 10 percent? 15 It wasn't a declaration intending to 16 say, And these are the things that we can't do 17 accurately with that. So its absence drawing inference from 18 19 that, when that's not the topic of the declaration, 20 is misleading. So Paragraph 10, I think I've largely 21 already covered. 2.2

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And his NFL analogy, in 11, is really quite misleading. We're talking about a tenfold difference in sample size, and he's talking about a .0 -- .01 difference in inches of height.

So the right analogy there is the one I gave you before, where if you said -- if you told me I can't have 12,000 claims, I get 11,999, we would probably just all go home. Right? That's the analogy to that. It's not -- you know, the proper analogy here would be more like, Oh, you have one that's 6-foot, 1 inches tall, and the other is 5'4". You're talking about a very large difference, a tenfold difference, not a very small difference. So while the -- I think the proper conclusion from that is actually in the exact opposite direction.

Paragraph 12 suffers the same flaw of him saying, for the purposes described by Dr. Mullin and the Debtors' reasonable needs.

He never says what that's meant to cover. He doesn't define "reasonable needs." I don't know how, you know -- without specifying what

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he's putting in that bucket, how he can reach that conclusion.

His premise in Paragraph 13 is actually incorrect. He -- we actually do have a potential problem of sampling bias. We're using the historical Claimants to draw inferences about future Claimants. The demographics of Claimants is not constant through time. And so if you take -- if you erroneously conclude that I'm going to have the same ratio of men to women, the same age distribution over the next 30 years of Claimants as I have in the last 10, you'll be very wrong. Those things shift through time.

So we have a historical sample where we're not actually trying to value the historical claims; we're trying to use information about the historical Claimants to draw inferences about future claims.

So while the group I have to sample is fixed, that group has different characteristics than the future claims, and I need to control for those differences or I will have bias.

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So it's actually very much in the opposite direction of his conclusion. If he understood that, it reverses the point from what he is making.

That same flaw in logic really applies throughout.

So while I don't disagree with any of his math on Paragraphs 15 through 20, he bases it all on examples where the undisclosed alternative exposures is either 5 percent of what was available or 10 percent, and then he ends up concluding that this will, in percentage points, create a really small confidence interval amount. If he just assumed that it never happened, then he would say it's 0 and his confidence interval would be, I know that with virtual certainty and it's 0.

So when you push a probability towards 0 or 1, you actually minimize the impact of these factors.

So if you ran the exact same math but it turned out there's a subpopulation where half of the alternative exposures are not being disclosed,

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it's not in Paragraph 20, 1.5 percentage points any longer. It gets dramatically bigger, and the difference is about fivefold. So you would be saying, instead of 1.5 percent, 7.5 percent.

So he's chosen an example that skews things low in the direction of the outcome that his client desires as opposed to choosing the example that's more — that could go in the other direction, but it's not the — you know, so this idea that, in practice, however, the standard error for a simple sample of 1,200 observations will usually be a lot smaller than 1.5 percent, that's — you know, you can get to certain things — if you're not looking at a subpopulation, you're looking at certain scenarios, that may be the outcome, but you may have a very large confidence interval if you end up with there's a subpopulation of interest and you need to get it for that.

And so his mathematical formulas are right, but he's really assuming throughout you only care about the whole population, which, of course, gives you no ability to change for changing

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demographic characteristics because you have an estimate for one mix of demographics only, and you really need the estimates for each of the demographic groups to know how to remix that going forward to match the future population. And he's completely ignoring that fact through this whole process.

So Paragraph 24, he gets into estimating impact of potential nondisclosure of alternative exposures. His first sentence, Because the proportion of nondisclosed Claimants has a very small standard error, it follows, if all the settlements were the same size, that the standard error of the overall average impact would also be small.

Not only does it follow that; under that assumption, the impact is zero and you don't need to estimate anything. So if you assume the problem away, because everybody gets the same settlement amount whether they disclosed or not -- so he's assumed there's no impact -- if we assume that it can't happen and has no impact, then we are

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very precise when under that assumption, our estimate is no impact.

So that -- it's a complete misrepresentation of the real world. He's literally assumed it has no impact. It's like assuming it never occurs and then estimating that you don't need a lot of data for things that never occurred to get -- get the probabilities very low.

So he's really in a corner solution that makes no sense. If settlements are not the same size, so now we're, at least, in the relevant framework, a stratified sample can be drawn that over-samples the claims with the highest variation.

You really can't. This, again, shows a fundamental misunderstanding.

What we're trying to get is the connection between the amount of disclosed exposures, which is unknown at the time of designing the sample. So he's saying, Let's look at a parameter that we don't know right now and stratify on it.

This is not a classic statistics

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exercise. It also has discovery in it.

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You're learning about one of these variables. You can't stratify on the variable that you don't know yet. And that's what he's telling me to do in this paragraph, is to stratify on a variable that I won't know until after I get the data in the sample.

So that's actually completely infeasible, but it shows a fundamental lack of understanding that this is a discovery exercise and I don't know that. If I already knew it, I wouldn't need a sample, right? I would already have the information.

So that's a place that it's just disconnected from the exercise that's going on. He's suggesting something that's completely infeasible.

There is no finite sample correction factor, which he has in Paragraph 14, because we aren't trying to estimate the impact for the historical Claimants. We're trying to use the historical Claimants to talk about pending and

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future claims. So we are always estimating.

The finite sample correction factor applies to people you want to estimate that you don't need to estimate now because the sample told you the answer for those people.

We don't have any of those. These are all historical claims.

We're not estimating what they get paid. They've been paid. They've been released. So, again, it shows that fundamental misunderstanding of what we're actually trying to accomplish.

If you don't understand how the data is being used, you don't know how to design the sample, you don't know what sample size you need, and he's just repeatedly displaying his ignorance as to how the data are actually being used in estimations.

And, you know, it's things like this that are huge red flags that he doesn't actually know the facts of the situation, so he's applying the wrong statistical tools to the question.

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Paragraph 25 is just wrong. He says,
Beyond the two parameters discussed above,
Dr. Mullin doesn't specify precisely or intimate at
any other parameter of -- parameters of interest.

We can go back, where -- this is where he has entirely ignored Paragraph 15 of my report. He chose to do an example for Paragraph 16, an example for Paragraph 17. But Paragraph 16, where you're really talking about the need to control maybe for industry and occupational groups, the need -- all the uses beyond is where all the composure is revealed, he's ignored that entire discussion in my report.

And, apparently, according to him, I didn't even intimate any other parameters of interest. So he seems to have skipped certain paragraphs in the reading of my report to reach that conclusion.

He talks, in Paragraph 26, about anecdotes. In my experience, it's common for both sides in a litigation to use anecdotes. They're not necessarily statistically representative, but

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developing anecdotes is frequently done by both defendants and plaintiffs in cases. So I don't know if he's trying to insinuate that's bad or good. It's a little unclear. But he at least acknowledges that, to the degree anecdotes by either side are important, a larger sample would enable that better.

So it seems to be the one place where he acknowledges that that's something where a larger sample may be worthwhile.

So when we get into Paragraph 27, again, he doesn't define "reasonable needs." He doesn't appear to understand how it's being used. So I don't know what he actually knows, but based on what's -- he's written, you know, he makes statements that are inconsistent with how the data would be used. So I don't know, without him stating what he believes the reasonable needs are -- either his list is incomplete or his conclusion is wrong.

It's wrong either way, but whether it's because he has an incomplete list of the

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reasonable needs or he actually does know the full list, hasn't specified them, then the data is important for that list.

So Paragraph 28 makes me suspicious that Dr. Wyner has not spent much time in a litigation environment. The analytical burden of sampling, I do discuss. When you sample in a discovery process, so you learn more information after having seen it, it is not uncommon for experts to assert some form of ex post stratification on the data to improve the efficiency of an extrapolation.

There is lots of room for experts to disagree about that. And I have been in many cases where months, if not more, have been spent on parties litigating over what is the proper way to extrapolate.

If you're in the pure ivory tower academic, prespecified population and I'm not extrapolating outside of that population but I'm going right back to the population I sampled from, those problems don't exist, and then it's

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relatively straightforward mathematically.

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But in a litigation setting, where you need to control for differences going forward, this can become a very expensive and drawn-out process, and so steps to minimize that, I would advise clients on, because it -- otherwise, you can get into a lot of gamesmanship in that phase.

So Paragraph 29, I agree that if you used statistical calculations that are required to compete with the standard errors is not particularly burdensome, that's correct, if all the experts agree on which methodology to use to do it in the first place. So it's a methodological fight, not a computational fight. The computations are straightforward. The methodology is not necessarily straightforward.

He is correct -- and he nods a little bit to this in the next sentence -- data analysis on the full data set. He says, It's not substantial -- substantively easier, especially since there will be statistical challenges of all types that will arise, sampling or no sampling.

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It's an interesting sentence because most of his opinions are based in the framework where that doesn't happen, so acknowledging that, you're exacerbating that if you sample from this group. So he's correct that many of the problems will still exist, but you will exacerbate those problems and you will get likely more litigation around it as opposed to -- if you exacerbate the issue.

He's definitely correct at the end of that paragraph that he puts in bold. The sentence before it defines the "these," but These will introduce new uncertainty, distinct and irreducible, and not due to sampling.

That is correct, but that emphasizes the need for as much precision as you can get through the sampling exercise. If I have two sources of error, they compound each other; so the gain in precision, knowing that I have other irreducible error of improving my precision through this sampling exercise, gets larger. That means there's a bigger return having a larger sample size

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than if there wasn't irreducible error for other sources.

So the fact that those other things are irreducible and you can't reduce them dramatically increases the return for reducing them in the places where you can, because these interact with each other.

That's really the same critique of Paragraph 30.

The IRS critique in Paragraph 31, I don't agree with. The IRS does not have the resources to do what he is asking them to do, as he says is their charge, so they definitely, because they are resource-constrained, can't do that. So they do at times use sampling. Other times, they use a census.

They're making the point that when it's all available electronically, a census doesn't cost particularly more, so, okay, when it's all available electronically, we'll take a much broader review than if it's not available electronically.

They are resource-constrained. The

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cost of doing nonelectronic records is higher, so we take fewer. The cost of electronic records is lower, so we take more. That's the only point of citing to it. It's no different than the Debtors here who said, Our historical claims database will produce the entirety of it; you can have all of it; it's in electronic form; no need to sample.

Underlying claim files, there's a need to sample. Those aren't already in electronic form.

So the main point is, things in electronic form are low cost to produce and you take dramatically more, potentially all, than things not already in electronic form.

Paragraph 32, he says, Because there's no practical loss in accuracy created by sampling -- and he goes on -- there's no need for, draws other conclusions.

He appears to be focused entirely on estimating a proportion for the entire universe of 12,000 historically paid claims. And on that, there isn't really a practical loss in accuracy.

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And if that was the only thing you needed, I, too, am already only using 1,200 claims for that because that's what the claims file sample is. But to go broader, if you're using it to estimate the number of future claims and you want to do that by industry and occupational groups, again, if you're going to value by law firm or by jurisdiction, that no longer applies.

So, again, it shows -- it just goes back to that lack of fundamental understanding of what is the exercise.

His last part about a data breach, in Paragraph 32, there's already 12,000 people whose PII is at risk. We're going to add a small number to that, a number that were in the data field -- in the exposure fields that the Trusts failed to redact and Bates White fails to redact.

So we're not really getting -- if there were a data breach, we aren't going from -- we don't get a 90 percent reduction. The 12,000 is the same 12,000. So you're going to have the 12,000 and you're going to add a few more, or

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Page 127 1 instead of saying adding 10 more, maybe add one 2 more; instead of adding one more, maybe add 0, but 3 the 12,000 is still there. So the real risk of the data breach 4 5 is the 12,000 we already have, not the handful that are going to make it through all the screenings 6 that come along first. So saying this is 8 fundamentally changing the risk of data breach is 9 ignoring the amount of data that's sitting at risk. 10 You know, and there's lots of things being done to minimize the odds of that. I don't disagree that 11 12 you can't drive it to 0, but it's a very low 13 possibility. Excellent. 14 Q. 15 I kept my bargain that I wasn't going 16 to interrupt you in the middle of it, so --17 MR. EVERT: That, you did. Thank 18 you very much, Michael. 19 MR. KAPLAN: Yes. 20 BY MR. KAPLAN: 21 Let me ask you a couple of questions, Q. then I think it's time for another break, which is, 2.2

Page 128 1 you discussed very early on -- and I wrote this 2 down -- this fundamental misunderstanding of the 3 subpopulation that you would like to study and work off of. I think you said it in response to almost 4 5 the first paragraph, Paragraph 6, where you were talking about -- when we were discussing reasonable 6 needs. 7 8 Do you recall that? 9 Α. Yes. 10 Where in your declaration, Ο. 11 Dr. Mullin, do you talk about the subpopulations 12 that you want to study? 13 (Whereupon, the witness reviews the 14 material provided.) So this is in 15 THE WITNESS: 16 Paragraph 15. In particular, if you go to 17 the middle of that paragraph, there's a 18 sentence, Further, the relationship of 19 exposures alleged to the various occupations 20 and trades of the Debtors' historical 21 Claimants and the extent to which the full 2.2 range of the alleged exposures is changing

Page 129 1 over time are important to estimating a 2 Defendant's legal liability share. 3 So that's talking specifically 4 about industry and occupation and being able 5 to do things at that level to control for those changes through time. 6 BY MR. KAPLAN: 7 8 Ο. You agree with me that sentence 9 doesn't talk about various law firms, though, 10 correct? 11 Α. That does not. The reference to --12 if you're familiar with the Garlock record, I 13 didn't try to rehash the entire Garlock record. 14 There's a paragraph on that. 15 In Garlock, Claimants represented by 16 about -- or law firms who represented about 17 25 percent of the Claimants are the ones where 18 there appeared to be -- you know, not all the 19 exposures were being revealed, and for the other 20 75 percent, they were. 21 So I wrote this assuming you had some knowledge of the case. I understand from this that 2.2

Page 130 1 you, personally, do not, in terms of these details 2 in the background, but with the -- with that 3 knowledge, I didn't try to give the whole history 4 again. 5 But if you're familiar with the process and you're an expert in this field: 6 Controlling by law firm, controlling by 8 jurisdiction are fundamental things. It's done 9 routinely. 10 So I didn't state things that, to any expert or person who does this regularly, would 11 12 seem obvious --13 Ο. You assumed? 14 -- it's very much in the Garlock Α. 15 record. 16 I didn't -- I didn't write it for a 17 complete layperson who knew nothing about the 18 context of estimation. That is correct. I did not 19 write it for a person completely ignorant about 20 that entire process. 21 MR. KAPLAN: All right. Let's 2.2 take -- I don't know -- five or so minutes,

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1	same as we did last time, and we'll come on
2	back.
3	000
4	(Whereupon, a recess was taken from
5	3:26 p.m. EDT to 3:39 p.m. EDT.)
6	00
7	BY MR. KAPLAN:
8	Q. Dr. Mullin, I just have a few more
9	questions, and then I'm going to switch pass
10	and and move on, which is, we were before the
11	break, we were talking about the the
12	subpopulations, and you pointed me to Paragraph 15.
13	And then you spoke about Garlock and the
14	assumptions you would make.
15	Where is it in your report that you
16	talk about the gender subpopulations that you
17	wanted to analyze?
18	A. I don't think I call out gender
19	specifically. There's numerous subpopulations that
20	could turn out to be relevant. It's not intended
21	to be an itemized list of everything.
22	Q. All right. Let's turn to the

Page 132 1 the -- one of the questions you -- one of the areas 2 you do talk about is Claimants that have multiple 3 areas of exposure -- multiple potential exposure sources, correct? That's one of the issues, you 4 5 said, and you talk about it in the context of Garlock also. 6 7 Am I right? 8 Α. I'm in the wrong report. Give me a 9 second. 10 Ο. I'm sure Dr. Wyner's report has a lot 11 of excellent information for you. 12 MR. ANSELMI: If you want to adopt 13 his findings, we'll be fine. 14 (Laughter.) 15 THE WITNESS: I'm going to have to 16 ask you to repeat your question. 17 BY MR. KAPLAN: 18 Q. Yeah. It's not a problem. I'm just 19 trying to bring us into -- in Paragraph 15, one of 20 the things you talk about is the alternative 21 exposure allegations. And that was one of the 2.2 things you -- I believe that you criticized

Page 133 1 Dr. Wyner for not talking about, was the 2 alternative exposure sources. 3 Correct? He talks about that in the sense of 4 Α. what proportion of them are disclosed, right. 5 What I was making reference to, in 6 particular, was to the fact that the occupational 8 industrial mix changes through time. So you 9 actually need to estimate those by industry or 10 occupational groups, and you can't just have one answer for the whole population. 11 12 So industry and occupation is going 13 to create subpopulations of interest where you're 14 going to need to estimate parameters for each of 15 those subpopulations. 16 Ο. I want to focus on something a little 17 more narrow, which is we can agree, correct, 18 because -- although I'm not an expert in this 19 particular field -- that a mesothelioma Claimant 20 likely has multiple sources of exposure? 21 Many do --Α.

Okay.

Q.

2.2

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Page 134

A. -- those that have material exposure to gaskets typically do. In other settings, that may not be true, so I don't want to overgeneralize. But for these Debtors, I think, typically, a Claimant would have exposure to a multitude of products.

Q. Okay. And one of the -- you've made the point of highlighting the Garlock matter, which is where, you know, as you stated, certain Claimants did not disclose all of their alternative sources of exposure, correct?

A. That was ultimately the findings of Judge Hodges.

Q. Sure.

Let's -- I want to understand with this subset of data that you -- this set of data that we're looking at here with the 12,000 Claimants, which is, how is it that you're counting it? And let me break that down for you, which is that if one Claimant has five sources of exposure, we agree that's five potential separate claims they could make, right?

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Page 135 1 Α. It could be more than that depending 2 on what the exposure is to. 3 Ο. I agree. I'm using five because 4 that's how many fingers I have on one hand. 5 Okay? Α. 6 Okay. 7 It looked good when I held it up. Ο. 8 How is it that you are counting that? 9 Because -- is that five separate claims for 10 estimation, or is that one Claimant? 11 So the unit of analysis is going to Α. 12 be the Claimant. You're ultimately evaluating a 13 future Claimant or a pending Claimant's claim 14 against these Debtors. So it may be two claims in 15 that sense that you may value: one, their claim 16 against Aldrich; and, two, their claim against 17 Murray. 18 But you want to know what are the 19 totality of exposures for that one individual. 20 the breadth of alternative exposures is directly 21 relevant to the strength of their claim against 2.2 Aldrich or Murray.

Page 136 1 Ο. Okay. So we're -- the unit, then, is 2 Claimant and not claim for estimation purposes? 3 Α. To be clear, it's two distinct Debtors in a consolidated action. But as I 4 5 understand my charge, I don't say, Here's their combined liability at the end of the day. At the 6 end of the day, I may be asked to have one estimate for Aldrich and an alternative estimate for Murray. 8 9 So there's -- it's not -- if there's 10 an individual that claimed against Aldrich but never filed a claim against Murray, that Claimant 11 12 is not going to be informative about estimating 13 Murray's future liability. So I won't have all -- that's 14 15 probably your most obvious two-set populations of 16 interest, the two Debtors. Some Claimants sued -named both. Many Claimants named one but not the 17 other. 18 19 Where is that discussed in your Ο. 20 report? 21 Α. In the report? 2.2 Q. Yeah.

2.2

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A. That's -- that's not discussed. I mean, many things in this report -- this declaration is filed within the context of the case to the benefit of the judge, who actually confirmed the Garlock plan and has seen prior filings.

So I'm not writing, as I said, to a lay audience that has zero context or knowledge.

I'm writing to an individual that has a lot of context and knowledge. So many of those things aren't stated for a second time here.

Q. How is it, then, that parties -excuse me -- nonparties to the case who aren't the
judge, who didn't confirm the Garlock plan -- how
are they supposed to know what the basis of your
opinion are, then, if they're not stated?

 $$\operatorname{MR.}$ EVERT: I'm going to object to the form of the question.

THE WITNESS: Again, it's done within the context. There's a lot of other filings in the case. I think the -- the two -- I don't -- I would never assume -- I don't know why a party would assume you

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Page 138 estimate one number for two Debtors. 1 That's 2. a strange assumption, in my mind. So if you're saying that's -- to 3 me, that's obvious. So if that's not obvious 4 to a reading audience, okay. I didn't call 5 6 out that particular item. I don't really 7 view that as fault, although it may be 8 beneficial to some parties. 9 But, typically, I think you hire 10 somebody who's familiar with the context who 11 can fill you in on context. That's, in my 12 experience, what my clients do. If something comes in their lap that they don't have 13 firsthand knowledge of, they gain that 14 15 knowledge through who they hire to advise 16 them. 17 BY MR. KAPLAN: 18 Q. Okay. You've talked a few times 19 today about tripling your uncertainty or 20 quadrupling your uncertainty or doubling your 2.1 uncertainty. 22 We've had a few of those exchanges,

	Page 139
1	correct?
2	A. Correct.
3	Q. When you say "tripling your
4	uncertainty," what number is it that you're
5	starting from?
6	A. So we've gone around this barn two or
7	three times now, at least.
8	Q. I'm aware. Yeah.
9	A. Do you want me to say asked and
10	answered, or I mean, you're saying you're aware
11	
12	MR. ANSELMI: That's his
13	THE WITNESS: okay. I don't
14	understand your question because it seems to
15	be identical to what you've already asked me
16	three times. And if you are asking me the
17	same thing again, I stand by my answer.
18	If you intend a different meaning
19	than what you asked me before, I don't
20	understand your question, and please clarify.
21	BY MR. KAPLAN:
22	Q. Excellent. I enjoy when experts play

Page 140 1 lawyer. It looks great. 2 The -- my question for you is this: 3 If you start with an uncertainty of, let's say, for 4 instance, 1 percent uncertainty and you're tripling that, you're now at 3 percent uncertainty, correct? 5 Α. Correct. 6 So my question for you is -- and you 7 Ο. 8 have said -- you have said 50 million, 100 million, 9 150 million. You've said 400,000 today. You've 10 said a lot of big numbers, but what -- what you 11 haven't said to me is what level -- what is the --12 the uncertainty associated with using 1,200 13 Claimants for this sample. 14 MR. EVERT: I think this is when 15 I'm supposed to say asked and answered. 16 MR. KAPLAN: Okay. That's fine. 17 That's good. You say whatever you want. 18 You're fine. BY MR. KAPLAN: 19 20 You answer the questions. Ο. 21 MR. EVERT: I think he's said, Michael, a number of times --2.2

Page 141 1 MR. ANSELMI: Let him say it. 2. MR. EVERT: Okay. THE WITNESS: Again, I believe 3 I've addressed this at least two if not three 4 times. I believe those answers were 5 6 complete. I will try this one more time for 7 you. 8 You can't know the answer to how 9 much uncertainty you have before you have the 10 data in front of you. That is impossible. 11 So nobody can tell you -- and this is true of 12 every single sampling exercise that's done 13 when it has a discovery component leading to 14 an analysis not estimating a proportion for 15 the historical population but an actual 16 estimation component to it, particularly out 17 of sample, like this would be done. don't know that ahead of time. It's -- it's 18 an infeasible question to give a precise 19 20 number to. 2.1 That said, based on my experience 22 doing this, if I'm going to look at something

Page 142 like but-for tort spend, which is typically 1 2. the plaintiff theory in these cases -- and I'm probably going to have to address that at 3 some point -- the uncertainty -- if we had --4 the baseline uncertainty is very likely 5 6 initially in the tens of millions. Whether that's 15 million, 30 million, I don't know, 7 8 but it's -- it's very likely in the tens of 9 millions, not single-digit millions, not 10 hundreds. That's just based on having done 11 this exercise across numerous entities 12 through time. 13 Now, if I triple that, I'm adding 14 30 to maybe 200 million of uncertainty, 15 depending on where we are initial -- our 16 initial uncertainty may be 20. If our 17 initial uncertainty was 10 -- I don't think 18 we're going to be that low -- you would be 19 adding plus or minus 20 million. If the 20 initial uncertainty was 70 million, now 2.1 you're at plus or minus 210 million. 22 It's going to have an effect in

Page 143 1 that range. I don't know where, but it's 2 almost assuredly going to fall somewhere in 3 that range, based on historical experience. But I can't give you a precise 4 5 I can only give you that kind of general guidance because no one can answer 6 the question you're actually asking. 7 8 BY MR. KAPLAN: 9 0. Okay. Last question is, Is the sort 10 of mathematical extrapolation we did from the 11 400,000 down to the 12,000 -- where is that in your 12 declaration? 13 You can phone a friend, and he's 14 shaking his head. 15 MR. EVERT: Yeah. I'm just going 16 to interrupt. You're thinking of your 17 earlier declaration -- it was in your initial 18 declaration; it wasn't in this the sample 19 declaration. 20 THE WITNESS: I was going to say 21 that information is in the record; it's not 2.2 in this declaration. So that information has

	Page 144
1	been provided and at least I guess not the
2	Trust, but the FCR, the ACC have all had
3	access to that underlying database for a long
4	time.
5	MR. KAPLAN: Okay. That's all the
6	questions I have for now. I'm going to step
7	aside to whoever Mr. Guerke.
8	MR. GUERKE: I will go next.
9	00
10	EXAMINATION BY COUNSEL FOR DCPF
11	00
12	BY MR. GUERKE:
13	Q. Good afternoon, Dr. Mullin.
14	A. Good afternoon.
15	Q. My name is Kevin Guerke.
16	I represent the Delaware Claims
17	Processing Facility, sometimes referred to as
18	"DCPF."
19	Are you familiar with that?
20	A. I am.
21	Q. If if I ask you questions and
22	refer to "DCPF," will you know what I'm talking

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	Page 145
1	about?
2	A. Yes.
3	Q. You just were discussing that 400,000
4	Claimants with with counsel.
5	And I think, earlier today, you
6	testified that there were roughly 400,000 Claimants
7	that submitted claims to the two Debtor entities;
8	is that correct?
9	A. I said there's more than 400,000.
10	Q. More than 400,000?
11	A. Claimants?
12	Q. Yeah. Is that your testimony?
13	A. Across the two, that's my
14	recollection, sitting here. I think there's an
15	exact tabulation somewhere.
16	Q. And of those 400,000 or so, roughly
17	25- to 50,000 were mesothelioma Claimants, correct?
18	A. That was I hadn't looked at the
19	exact number, but it's likely in that range.
20	Q. How many of those 25- to 50-
21	mesothelioma Claimants also submitted claims to one
22	of the DCPF Trusts?

Page 146 I don't know the answer to that. 1 Α. 2 It's a high proportion, I think, as we've gone through the reconciliation -- we've done some of 3 the claims reconciliation process, but I don't 4 5 remember what the number is, sitting here. 6 Q. Can you quantify any better what you 7 mean by "high proportion"? 8 MR. EVERT: I'm sorry. I want to 9 make sure -- he's asking, of the 25- to 10 50,000 mesothelioma Claimants in total, what 11 proportion. I just want to make sure -- that 12 is the question, right? 13 MR. GUERKE: I mean, the question 14 is what I asked him, and he gave an answer. BY MR. GUERKE: 15 16 0. Did you understand my question, and 17 was your answer responsive to my question? 18 Α. I was answering with regard to the 19 12,000 because those are the only ones I directly 20 see any information on that were in the request. 2.1 Any claims outside of that request, I could make 22 inferences or draw from experience and other

Page 147 places, but I don't have knowledge of within this 1 2 case. Are there more than 12,000 Claimants 3 Ο. who have submitted claims to the Debtor entities 4 5 and also have submitted claims to DCPF Trusts? 6 Α. Yes. 7 Q. So there's more than 12,000? 8 Α. Who have submitted claims to the 9 Debtor entities and submitted a claim to one or 10 more of the Trusts, yes, there's more than 12,000. 11 Are there more than 12,000 Q. 12 mesothelioma claims that both submitted claims to the Debtor entities and also one of the DCPF 13 14 Trusts? Almost assuredly, but I haven't read 15 Α. 16 an exact number. But almost assuredly. 17 Ο. In relation to the 12,000 that have 18 been requested, how many more, roughly? It's going to double or triple the 19 Α. number because there's all the dismissed claims. 20 2.1 And just because they were dismissed against 22 Aldrich or Murray doesn't mean they would be

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dismissed against all the predecessor entities that could file against the Trust.

There would also be a number of mesothelioma claims that predate 2005 that could have submitted claims against those Trusts. I haven't sought discovery on those, so there's no reconciliation process. I can't -- I haven't seen data that will give a precise qualification for those.

But those two populations of claims would produce a material number of additional mesothelioma Claimants against the two Debtors that would file one or more claims against entities in the Delaware facility.

Q. I'm eliminating dismissed claims, focusing only on mesothelioma claims.

Do you know how many more than the 12,000 Claimants submitted claims to the Debtor entities and also the DCPF Trusts?

MR. EVERT: Object to the form of the question because I don't understand -- there are dismissed mesothelioma claims you

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Page 149 1 said you're eliminating, right? 2 THE WITNESS: I ask a couple of 3 clarifying questions. BY MR. GUERKE: 4 5 Q. Sure. There's two Debtors --6 Α. 7 Ο. Two Debtors. 8 Α. -- one fact pattern is Aldrich paid a 9 claim. The same Claimant had a claim against 10 Murray, and the claim against Murray was dismissed. So they both have a paid claim against one Debtor 11 12 and a dismissed claim against the other Debtor. 13 When you say I can differentiate the 14 two claims -- but the Claimant was paid by one 15 Debtor, right? So the Claimant's neither dismissed 16 nor paid; they're both, right? We have two individual claims. 17 18 So when you say "dismissed," I need a 19 little more clarity as to what you mean because I 20 have two Debtors involved, when you asked the 21 questions, to be precise, so we don't commingle 2.2 terms.

Page 150 1 Ο. The subpoena that's directed at DCPF 2 seeks information on 12,000 Claimants, correct? 3 Α. Yes. What I'm trying to get at is -- is, 4 Ο. 5 for the subject of the subpoena, how many more Claimants are out there beyond the 12,000? 6 Well, the subpoena constrains itself 7 Α. 8 to a Claimant who was paid by one or both Debtors 9 where that payment occurred 2005 or later, all 10 right -- it's got a date cutoff for the date of the 11 payment -- and it has to be mesothelioma. All the 12 mesothelioma Claimants that don't fit one of those 13 three criteria have been excluded. 14 So that's if you were dismissed 15 against -- if neither Debtor paid you, if you were 16 paid earlier in time than the temporal cutoff or if 17 you were not nonmesothelioma, you've been excluded 18 from the data request. So the 12,000 Claimants -- the entire 19 Ο. 20 population has been included? 21 Well, it's got a definition --Α. 2.2 Using that definition --Q.

2.2

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A. —— so the definition —— it is the ——
it is a census or the total population of Claimants
who resolved after the cutoff date, who had
mesothelioma and one or both Debtors made a
positive payment. That's the definition of what
went in. So by construct, it's 100 percent of that
definition.

Q. All right. When did you start working on this bankruptcy case?

Based on -- and I'll just tell you, based on the docket, Bates White was formally retained August 18th, 2020.

A. I mean, we were working for the Debtors as of the petition date. I think the retention went through subsequent to that. There's a lag between when -- typically in a bankruptcy when you first start doing work for a client and when all the paperwork goes through the bankruptcy court.

Q. How about you, personally? When did you, personally, start working on this bankruptcy case?

Page 152 1 Α. For the Debtors as clients, it would 2 have been roughly contemporaneous with that. 3 Ο. Bates White is also involved in Bestwall and DBMP, correct? 4 5 Α. Correct. What's your personal involvement in 6 0. those two cases? I advise on those at times. 8 Α. There's 9 select issues where my colleagues, counsel or 10 client seek me out on certain topics. 11 I don't think I'm at liberty to 12 disclose what those topics are at the current time, 13 particularly in the context of this case, but it's 14 been constrained to advising on select issues at 15 the moment. 16 Ο. Do you anticipate using sampling in 17 either Bestwall or DBMP? 18 At the moment, I don't anticipate Α. 19 testifying in either of those cases. So if you're 20 asking am I, personally, going to do that, I don't 21 anticipate testifying in either of those cases. 2.2 Do you know if Bates White Ο.

Page 153 anticipates using sampling in either Bestwall or 1 2. DBMP? 3 MR. KAPLAN: Kevin, I'm going to object. 4 Is that appropriate for this 5 6 setting? He said he's not a testifying 7 expert in those cases or the fact that his 8 firm is. 9 Do you know? 10 THE WITNESS: I mean, I'm going to 11 stick to what's in the public record, because 12 it's -- I don't think I should talk in the 13 context of Aldrich/Murray about anything 14 that's not in the public record for Bestwall 15 or DBMP. There's been back-and-forth in 16 17 Bestwall about what sample of historical claim files to take. The fact that there's 18 19 back-and-forth on that is in the public 20 record. So the fact that they're looking at 2.1 various samples of claim files in the same 22 way that that issue is being looked at in

Page 154 1 this case, that's true. 2 I don't know the DBMP public 3 record well enough to know what's in it or not, so I'm not going to say anything because 4 5 I just don't have confidence as to what's in the public domain. 6 BY MR. GUERKE: 7 8 Ο. You testified earlier that you -- you 9 anticipate that sampling will be used in the 10 Aldrich Pump case, in some respect, right? 11 With regard to the historical claim Α. 12 files, I suspect that's correct. It's also -- I 13 mean, with regard to Trust data, I would say that's 14 exactly what we're doing here, too. We didn't ask for all the claims; we asked for a subset. So it's 15 16 a version of sampling. 17 Ο. That's what I was getting at earlier 18 about the -- the 12,000 Claimants. 19 What's the -- what are the 12,000 20 Claimants that you seek in the subpoena -- or your -- your attorneys seek in the subpoena -- what 21 is that a sample of? 2.2

Page 155 1 Α. The over 400,000 historical claims. 2 0. But modified based on the parameters 3 of the -- of the subpoena, correct? Well, I -- I did not feel I needed 4 Α. 5 all 400,000 claims to do my work, information from the Trusts. I reduced that down. So it's -- we're 6 not requesting a census from the Trusts of every 8 historical claim to merge to the claims database of 9 all of the Claimants. That's not what we're doing. 10 We're taking a very select subpopulation that's about 3 percentage of the 11 12 total population of Claimants and asking for the 13 data for that 3 percent of the subpopulation --14 that subpopulation. We're asking for 100 percent 15 of that subpopulation. 16 So it's a census of that 17 subpopulation, which is 3 percent of the total data. 18 19 And other than sampling for O. 20 historically -- historical claim files, do you anticipate any other sampling in the Aldrich Pump 21 2.2 or Murray bankruptcy case?

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A. We're likely to rely on various historical samples. So, for example, prior to 2001, there's not a census of historical mesothelioma diagnoses in the United States. So what's available is a sample by the Survey of Epidemiological End Results.

2001 forward, we have census. So we use the census for 2001 forward, but when we're looking at things of forecasting future disease incidents in the population, we'll rely on samples, but we're not -- that's because it's a constraint; it's what's -- the only thing that was available. You can't go back to 1995 and complete that sample any longer.

- Q. The subpoena that was issued to DCPF and, I think, all of them go back to 2005 -- seek data that goes back to 2005; is that correct?
 - A. Correct.
- Q. Why do you need data going back to 2005?
- A. So part of this is you do have changing demographics through time. So, ideally,

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you don't just look at a snapshot of the most current. You want to be able to see if there's trends or changes, and you want to be able to model those changes.

So for questions such as Dr. Wyner focused on are all the disclosures being revealed.

2005 is not particularly important to my analysis.

The more recent data is going to be much more important because it's really what's happening more recently in the tort system.

In contrast, for controlling for industry and occupational group mixes and seeing how those are evolving through time, you need a time series of data. So the reason to reach back further is so, as opposed to getting a snapshot at a moment in time, you can see the underlying trends in data, line that up with large government datasets that are informative and create a more reliable forecast.

So the reaching back further has a lot more to do with accurately estimating the number of future Claimants than the questions

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Page 158 1 related to are the totality of exposures being contemporaneously revealed. 2 3 Ο. Doesn't Bates White already have the Garlock database? 4 5 Α. So there's a public version of the Garlock database that any party who cares to get, 6 can have it. And Bates White has a copy of those 7 8 data. 9 0. Does Bates White have a copy of a 10 nonpublic version of the Garlock database? 11 Α. That was destroyed at the No. 12 conclusion of the bankruptcy, which is why I made 13 the distinction. There was another version of that 14 database that had more information in it than the public version, which no longer exists. 15 16 Ο. Garlock filed bankruptcy in 2010, 17 right? 18 Α. June 2010. 19 Why wouldn't going back only to 2010 Ο. be sufficient for your purposes, considering 20 Bates White already has the Garlock database? 21 2.2 I'll just object to MR. EVERT:

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the form of the question because no sample back to 2010 has been proposed.

Go ahead.

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THE WITNESS: The Garlock database is constrained to individuals -- at least on Trust discovery aspect of it, is Claimants against Garlock who were resolved prior to their bankruptcy. So in all the pending claims, that database -- there's not the Trust discovery on -- it's similar to this one, resolved claims.

And not every Claimant who names Aldrich or Murray named Garlock back then. So that would be a nonrandom subset of the data.

And then you'd introduce all sorts of questions about what biases have you brought in by using this nonrandom subset, requiring it to be in the Garlock data and be resolved by Garlock prior to bankruptcy, as opposed to being able to take the universe of claims and not have any of those biases enter

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Page 160 1 the analysis. 2 BY MR. GUERKE: 3 Ο. Couldn't -- wouldn't it be sufficient 4 for your purposes to use the -- the Garlock 5 database -- the information you have and supplement it with the subpoenaed information from 2010 6 forward? 7 8 MR. EVERT: Objection: asked and 9 answered. 10 THE WITNESS: So there's going to 11 be a few issues with that. You could 12 potentially make some progress on that route 13 with regard to the Delaware facility. There 14 was no discovery on the Verus facility in the Garlock matter, so there is no data in the 15 16 Garlock record of Trusts related to that 17 facility. So any of this would apply only to 18 the Delaware facility as a starting point. 19 Two, to the degree Claimants in 2.0 Garlock have filed Trust claims post the 21 Garlock discovery, because not all of those 2.2 claims were resolved at the time -- there's a

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number of claims that were pending -- you would want to learn the status of those pending claims.

So you would need to go back and -- if there was a single pending claim to figure out what was the resolution of that.

So it's not as simple as if you got the discovery before, what's the ultimate resolution.

BY MR. GUERKE:

- Q. Can you use for your purposes the data that was produced in Bestwall and DBMP from DCPF and the DCPF Trusts?
- A. I believe that would violate numerous confidentiality orders and be illegal for us to do. So I don't think, legally, we could do that.

If that issue were solved, statistically, it has a similar issue. DBMP is a fundamentally different product than Aldrich. You could see Claimants who were dismissed against DBMP who might be a high-value claim against Aldrich, or vice versa.

Page 162 1 So -- and they won't be in Claimants 2 who named Aldrich that never named one of those two 3 entities. 4 So, again, you would have these 5 selection effects you're layering over. wouldn't be a representative sample. And that's 6 going to create potential biases, and then we would 8 be litigating over those biases. 9 I don't want to go through all the 0. 10 questions and answers you gave prior counsel on this subject. And I -- am I correct that -- strike 11 12 that. 13 In your declaration in Paragraph 9, 14 you discuss the decrease in precision. You had 15 several questions with Mr. Kaplan about decrease in 16 precision. 17 My question is, Specifically, what is 18 the decrease in precision referenced in 19 Paragraph 9? And if -- if your answer is, I 20 already explained that for half an hour, that's 21 fine. 2.2 But is there a way for you to answer

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Page 163 1 that question? 2 Α. You're asking specifically about kind 3 of Romanette i, Decreased precision of the ultimate 4 analysis? 5 Yes. Q. I believe -- that's focusing probably 6 Α. on the most salient issue, which is the ultimate --8 the final design of the CRB, the final estimate of 9 liability in an estimation proceeding. 10 When I say "the ultimate," it's not what's the precision of an intermediate number 11 12 that then feeds in, but "the ultimate" in that is 13 referring to the final opinions of interest of 14 which the sample is providing inputs into. 15 Q. And -- and the final opinion, is 16 that -- is what you mean the value -- the estimated 17 claim value that you would present to the Court of the ultimate analysis you were referring to? 18 19 Α. It could be the final claim -- the 20 estimate of total value of pending and future claims against Aldrich. It could be the final TDP 21 2.2 that's filed where you've used these data to help

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you structure that TDP. So as opposed to intermediate steps that are building up to something like that, it's these final documents or these final high-level opinions.

- Q. But a final high-level opinion on estimating present and future claim value, not TDPs, can you tell us specifically what the decrease in precision is that you're referencing in Paragraph 9?
- A. So one issue in the case, as I understand it, is the parties disagree about what it is we're supposed to be estimating there, which if you want me to get into that, I can, but I'm not really intending to in this answer.

The Plaintiffs' theory of what would the Claimants have received in the tort system is likely to have a larger aggregate estimate than the Defendant theory of what's kind of the intrinsic or underlying legal liability. Those two numbers are going to differ.

So while the percentage of uncertainty may be the same, suppose they're both

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Page 165 1 plus or minus 15 percent, clearly that's going to 2 be more dollars of uncertainty on something that's 3 at a higher baseline number. 4 So it's going to have a bigger dollar 5 impact under the Plaintiffs' theory than under the Debtors' theory. It's going to approximately, on 6 many of the parameters, triple the uncertainty. But the rest is similar to the answer 8 9 I gave before, right? I think that uncertainty is 10 probably on the order of tens of millions of dollars as a baseline. Until I do the work and 11 12 I've seen the data, I can't tell you something more 13 precise than that. 14 Do you expect your final estimated Q. 15 claim number, present and future claims, the 16 ultimate analysis that you're referencing in 17 Paragraph 9 -- will that be in the form of a range? 18 These have been presented in Α. 19 different ways in different estimation proceedings, 20 so I don't know if we're at that point. There's -- many times, that's 21

presented as a scenario and a point estimate, but

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then analyses around that to describe the amount of uncertainty -- you could present that as a range, but likely, if you were to present a range, you would give the Court some indication about what area within that range you find more likely.

So I don't view those as too different, but the one may not go all the way to a point estimate. You may say, I'm very confident it's in this \$50 million or most confident it's most likely in a \$50 million range, but maybe it has this broader range that's feasible for uncertainty.

So which of those is a better form of exposition depends a little bit on the types of uncertainty and what you learn as you go through the process.

- Q. You don't anticipate providing the Court with a single final number, correct?
- A. If I concluded there was a scenario that I found most likely, I will probably present that number but then characterize the uncertainty about that number. If I don't have one scenario

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1	that I think is more likely, there may be a range
2	that I think is most likely but within that range,
3	I can't differentiate, and then there's uncertainty
4	about that range.
5	You know, until you do all the
6	analysis, which of those is going to be where I
7	ultimately present opinions, I don't know, sitting
8	here today.
9	Q. You reference in your declaration the
10	legal liability analysis that you're performing in
11	this case.
12	Are you familiar with that?
13	A. Yes.
14	Q. The legal liability analysis that you
15	will go through includes multiple steps, correct?
16	A. It does.
17	Q. Do you agree that legal liability is
18	not a mathematical equation?
19	MR. EVERT: Let me ask, How is
20	that relevant to sampling?
21	MR. GUERKE: It's a foundational
22	question.

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Page 168 1 MR. EVERT: Okay. If you know the 2 answer, if you can answer it. 3 THE WITNESS: So as an empirical exercise, you ultimately reduce these 4 5 questions to a mathematical model. Whether you're doing legal liability, but-for tort 7 spend, ultimately these become reduced to 8 mathematical models of every expert I've ever 9 seen do it. So the model, like all models, 10 is a simplification of the real world. Every 11 single model simplifies that on some dimension. But, ultimately, they will be 12 13 expressed as a form of mathematics. 14 BY MR. GUERKE: 15 Along the way in the legal liability Ο. process, there will be subjective determinations 16 17 that are made by Bates White, correct? 18 MR. EVERT: Object to the form of 19 the question. THE WITNESS: 20 There may be. 21 Again, I haven't done all that work. 22 As much as possible, I try to root

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Page 169 1 things in data and empirical analyses, but, 2 at times, there are -- things can arise where 3 that's not feasible. And then you start --4 you invoke some assumptions and usually do 5 scenario analysis. BY MR. GUERKE: 6 7 Ο. Some of the steps in the legal 8 liability analysis include estimates, right? 9 Α. Every estimate of future liability 10 includes estimates. That's correct. 11 And also includes forecasts, correct? Q. 12 I don't know what distinction you're Α. drawing between the word "estimate" and "forecast." 13 14 If you intend those to mean something different, tell me. 15 16 Ο. For the legal liability analysis that 17 you're going through, the -- the end game is for 18 the Debtors to estimate the value of claims, 19 correct? 20 Correct, the value of pending and 21 future claims. That's correct. 2.2 Why is estimating sufficient for the Q.

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analysis but sampling within the analysis is not?

A. I don't agree with the predicate. I am sampling. So certain -- there's a cost-benefit analysis as to when you should sample and when you should use the totality of the available data.

So on certain aspects where the cost of producing the data is relatively small, I use the -- I intend to use the totality of the data, like, I will use the entire claims history from the Debtor. I won't take a 10 percent sample of the Debtors' claim history in their settlements.

Okay?

So things that are already in electronic format, you tend to use all the data; things that aren't already in electronic format, you tend to use the sample.

It doesn't always have to work out that way. I've done cases where we took a census of everything that was not in electronic format, too, so it -- it's a cost-benefit analysis that's specific. And I've done ones where I've taken a sample where everything was in electronic format

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because it was still too large to work with.

So it's -- there's no absolutes there, but that's how it generally breaks down. So I'm using the census at times for certain questions; I'm using a sample for other questions, and it's that cost-benefit analysis.

- Q. Whether DCPF produces 100 percent of the information requested or 10 percent of the information requested, will Bates White review every single document that DCPF produces?
- A. We will use the totality of the electronic information to the degree that it's populated, so we will review it, but if -- if a record was produced and all the fields were empty, we probably wouldn't incorporate that record into our analysis, because it actually had no data. But we -- the intent is to pull all of that into the analysis. Which of it will ultimately be germane at the end is an empirical question, but I'm expecting in terms of these trends for future Claimants to use all of it.
 - Q. And how will Bates White go about its

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review of the DCPF-produced information to fulfill its obligation to redact PII that's in the subpoena?

A. So I'm not personally in charge of doing that review at the moment, but the -- we do a lot of document review in different settings. This really isn't documents. It's electronic.

So I would have to go and ask to see the exact specifics. But we've done similar exercises in the past. We typically will do a review conceptually. There will be a first pass. We'll see what it flags. There will be a second pass to get an error rate. That second pass may not be for the totality of the claims. It may be for a subset to see what the error rate is, how many claims are you missing, if at all, right?

And you're really assessing are you getting the vast majority of them, as you're going on, and will determine some acceptable error rate at the end of the day in the same sense that the data being produced to us probably, despite DCPF going through it, will still have missed a few. So

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we will go through a similar process of quality controlling, quantifying our error rate and then being able to say what's the maximum number of claims statistically where there is remaining PII.

- Q. Forgive me if this was embedded in your answer, but that first pass and the second pass you just testified about, is that -- is that 100 percent review of all the data on a first pass and then a 100 percent review of all the data on a second pass?
- A. The second pass is likely to be a subset where you're doing a quality control. If you determine that your error rate is too high, you would actually do a full second pass, because you've determined your error rate is too high.

So it's -- when you do the quality control pass, if you learn you're missing -- you're getting 99.9 percent of them, you would probably say, We've done a good job, and we're done.

If you found that you're only getting 80 percent of them, you would probably do a second pass on all the data, because missing 20 percent is

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1	not an acceptable error rate.
2	So it's the extent of the second
3	pass is a function of what is your effective rate
4	of capturing the information.
5	Q. If a sample is ordered, a 10 percent
6	sample, Bates White would end up reviewing
7	90 percent fewer claims that were produced from
8	DCPF, right?
9	A. I think, yes.
10	Q. That's the extent of my math right
11	there.
12	(Pause.)
13	BY MR. GUERKE:
14	Q. Forgive the pause. I'm trying not to
15	ask you questions that have been asked.
16	MR. EVERT: Much appreciated.
17	BY MR. GUERKE:
18	Q. Can you take a look at the subpoena
19	that I believe is
20	MR. EVERT: CM-2, I think.
21	BY MR. GUERKE:
22	Q which is Exhibit 2?

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Page 175 1 Paragraph 10 of the subpoena lists 2 data fields that's being requested from the 3 recipient of the subpoena. 4 Do you agree with that? 5 Α. It's a list of the requested information; that's correct. 6 7 Ο. And this isn't the DCPF subpoena, but 8 they're all very similar, with the same paragraph 9 and the same request. 10 Part q, 10, requests information for 11 all exposure-related fields. 12 Do you see that? 13 I do. Α. 14 Why does Bates White need all Ο. 15 exposure-related fields for its analysis? 16 Α. That's going to enter the analysis in 17 a couple different ways: One, it's going to allow 18 us to get a much more complete picture of people --19 the nature of Claimants' exposure. So that will go 20 directly to, for example, what share of their 21 exposure would be derivative of Aldrich or Murray 2.2 as opposed to alternative exposures.

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It will also be directly relevant to what type of actuarial curve the claim should be mapped to for projecting the number of future claims, so doing this industry/occupation, what trades are they in, what industries are they in for figuring out how to extrapolate to get the best estimate you can of the number of future claims.

So it's going to enter into that type of analysis. It will also be direct in terms of what exposures were disclosed at the time -- by the time of the Debtors' settlement versus what had been disclosed in totality across the multitude of Trusts.

- Q. Is it the -- is it this all-exposure related fields where Bates White will use to compare claims information submitted to the Debtors?
- A. On the questions that were, if I'm remembering right, Paragraphs 16 and 17 in my declaration, yes.
- Q. Do you intend to look at every historical claim submitted to the Debtors in the

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tort system for that comparison process?

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- A. No. We're intending to use a sample for that comparison, but to the extent we can, the totality of claims in terms of these industry and occupational trends for forecasting the counter future claims, so it depends on the -- which analysis you're referring to.
- Q. And that sample is what you're referring to earlier that's being negotiated with the ACC and the FCR; is that right?
 - A. Correct.
- Q. So for the -- the 12,000 Claimants that are being requested in the subpoena directed to DCPF, are the Debtors providing Bates White with all the claim files?
 - A. No.
 - Q. Why not?
- A. So producing a claim file -- it's a set of documents that are typically not in electronic format, and even if the documents themselves are in electronic format, the information you want out of, say, an answer to an

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interrogatory or out of the deposition haven't been culled from that.

So turning a claim file into usable data for analyses is very expensive on a file-by-file basis because it's not already in electronic format to be used, so the cost associated with each datum that you want to pick up is relatively high. And so in the cost-benefit analysis, we have gotten comfortable that looking at the 1,200 claims for that will be sufficient for some of these questions from a cost-benefit perspective.

That's around the point benefit where the cost benefits are, as best you can tell -- you don't know for sure -- but as best as you can tell, getting close to even.

In contrast, the Trust data is already in electronic format, so the -- compared to a claim file, the ability to turn that exposure history into a -- basically combining that information across Trusts to characterize an exposure history for a Claimant is relatively

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Page 179 1 inexpensive compared to reviewing a claim file and 2 trying to review depositions and Answers to 3 Interrogatories and pull all of that information So it goes back to that fundamental 4 5 cost-benefit analysis. So for that comparison or that 6 0. evidence suppression analysis, don't you need to 7 have the same Claimants from the Debtors' sample 8 9 matched up with the same Claimants in the DCPF 10 subpoena? 11 Α. Yes. 12 And how are you doing that? Q. So for the 1,200 that are in the paid 13 Α. 14 claims sample, those same 1,200 would be in the -would be in the Trust data because it's a subset of 15 16 the 12,000. So for those 1,200, we can make that 17 comparison. 18 If we were constrained to a 19 10 percent sample from the Trusts, we would want 20 that sample to be identical to the claim file

For the other aspects, like

sample so you can make the comparison on all 1,200.

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controlling for industry and occupations to forecast the number of future claim counts, that's about getting the totality of the exposure history and that, we would use all 12,000 Claimants for. So there's certain exercises where we would only use the 1,200 Claimants' information that overlaps with the 1,200 for which we went through the claim file exercise. And for other aspects of the estimation, we would use all 12,000 Claimants' information.

- Q. So if you're ultimately constrained to a 10 percent sample in this case for Trust information, you don't know yet whether that 10 percent sample will match up with the sample that you're working on right now with the ACC and the FCR, right?
- A. So there's no agreement at the moment as to what the sample of claim files will be.

 There's been back-and-forth. The concept is that it will be the same. If they weren't the same and they were both 10 percent samples, then you would only have on average 1 percent; you would be down

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Page 181 1 to 120 claims which would be in both, which would 2 be insufficient to do almost anything with. 3 Ο. You can't use it for the intended 4 purpose unless the two samples line up, right? 5 MR. EVERT: Object to the form of the question. 6 THE WITNESS: If I want to look at 7 8 a comparison, I need both points in the 9 comparison, for when -- for that exercise, I 10 need both sets of data. 11 BY MR. GUERKE: 12 So before you can determine a 0. 13 sufficient sample for the Trust information, you 14 would first need to know what the agreement is on 15 the sample for the -- the Debtor historical files, 16 right? 17 Α. No. 18 What -- why is that "no"? Q. 19 So the fact that the historical files Α. 20 are not already in an electronic format means that 21 each Claimant you sample there comes at a materially higher cost, thousands of dollars, if 2.2

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not 10,000, to collect all that information and process it.

So there's a substantial cost for each data point you're taking in.

So that data, the review of the claim file data and the cost associated with it becomes the binding constraint for doing the comparison because it's the higher cost source of data. So what I need to determine for this comparison is the higher cost source, which is the claim files.

I'm using the Trust data for multiple purposes, not just that comparison. The other purposes are what apply to the 90 percent of the sample that doesn't overlap with the 10 percent that would line up with the claim files.

So when I'm talking about asking for the 12,000 and constraining myself to 100 percent of that subpopulation, it's because that's the subpopulation that's going to inform me about, in particular, future claim counts, controlling for industry and occupation, potentially controlling for gender, controlling for different demographic

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Page 183 1 characteristics as we go forward. 2 So they're serving -- the binding 3 constraint differs between the two, so in that 4 sense, they don't overlap. I'm going to have a 5 broader sample ideally of Trust data because it's less expensive to produce than claim files, and I'm 6 going to have the claim file sample be a strict 8 subset of the Trust sample. 9 0. In Paragraph 21 of your declaration, 10 you state that DCPS -- DCPF has already produced 11 the same or substantially similar information for 12 similarly sized and likely substantially 13 overlapping claims population in response to nearly 14 identical subpoenas from DBMP and Bestwall. 15 Do you see that part of your 16 declaration? 17 Α. Which paragraph? 18 MR. EVERT: Twenty-one. 19 BY MR. GUERKE: 20 Ο. Twenty-one. 21 Α. Yes. 2.2 Q. So what of the 12,000 Claimants' data

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in this case overlap with the -- the Bestwall and DBMP case?

A. I'm not allowed to nor have I merged those databases. They're two separate cases.

What I know about each of them that I am allowed to use is that each of them receives about three-quarters of the claims that are filed in the tort system. So if I have two defendants that each are receiving 75 percent of the claims, 50 percentage points of that has to overlap because there's only 25 percent left that could go to the other Debtor that's not in the prior one.

So I know there's substantial overlap. I know it's at least 50 percent of their claims. It might be much higher. I don't know the exact number. That's why it's written the way it is. I'm not allowed to merge those. They're two separate cases.

You know, if parties waived and said, Go ahead and merge them, we could give you an exact answer. But that's not the status. They're -- each case is in its own silo. And so I know it's

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Page 185 1 substantial, but I don't know the exact number. 2 Ο. In Paragraph 22 of your declaration, 3 you state that retrieving information for any specified Claimant should involve a relatively 4 5 straightforward automated extraction of data as the match Claimants have already been identified. 6 7 Do you see that in Paragraph 22? 8 Α. I do. 9 0. What is your basis for that 10 statement? 11 Α. Well, as I understand the nature of 12 the databases, there's a Claimant identifier. 13 crosswalk process of identifying which Claimants in 14 the 12,000 actually filed a claim against any of 15 the Trusts -- as I understand it, that process has 16 been completed, because we've gone through a 17 reconciliation process on the matches that were 18 uncertain. 19 So there's already a mapping from 20 that matching key to the records or at least the 21 key identifier of each Claimant in the Trust data.

So now you're extracting specific

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Page 186 1 data fields from a data fact -- a database that's 2 just a query from a database. 3 Any redaction the Trust wants to do 4 after that query is a different question. 5 But the actual extraction of those fields is just a database query at this point. 6 And the review-and-redaction process 7 Ο. 8 that DCPF goes through is separate and apart what 9 you're saying in this paragraph, correct? 10 Α. Correct. 11 This is just retrieving from the 12 information from the field is straightforward. 13 There is a redaction process that the Trust has 14 stated it wants to do before producing the data. 15 Q. Do you -- do you dispute the fact 16 that the -- that DCPF will do a 17 review-and-redaction process for whatever 18 information is required to be produced in response 19 to these subpoenas? 20 They state they will do it. Α. 21 it in DBMP. I have no reason to question it. 2.2 0. You have no firsthand knowledge of

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1	DCPF's business, do you?
2	A. No.
3	Q. You don't know specifically what DCPF
4	has to do in that review-and-redaction process,
5	correct?
6	A. No, I don't know the specifics.
7	Q. And, similarly, you don't know the
8	inner workings of DCPF, correct, on the business
9	side?
10	A. No.
11	Q. And you don't know you don't have
12	personal knowledge of DCPF's burden in responding
13	to the subpoena, correct?
14	A. No.
15	Q. "No," you don't have personal
16	knowledge, correct?
17	A. I don't have I've seen the bill
18	from other cases. I don't have personal knowledge.
19	Q. Are you offering an expert opinion on
20	DCPF's burden in responding to the subpoena?
21	MR. EVERT: I'll object to the
22	form, actually, because I think that's a

Page 188 1 legal question, are we offering him to have 2 an opinion. So to the extent, yes, he's 3 going to testify about the fact of what it costs DCPF to do it and DBMP, then I think, 4 5 yes, we are offering him. BY MR. GUERKE: 6 7 Ο. You can answer. 8 Α. The opinions in my report, if I'm 9 asked, I'm going to give. Whether they fall under 10 that definition, I don't know. 11 What are your qualifications for Q. 12 offering an opinion on DCPF's burden? 13 Α. I think if the opinions in the report 14 talk about doing an extract from a relational 15 database, once you've completed the matching, that 16 is simple. That takes almost no time to write a 17 query, to take an extract from a relational 18 database. 19 I work with relational databases all 20 the time. You know, that -- if you consider that 21 as following as an expert opinion on their burden,

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it's one aspect of looking at what's the actual

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1	cost, given they've already done the matching
2	exercise, to extract the fields. That's minimal.
3	Otherwise, in terms of the redaction,
4	the evidence I have as an economist to look at is
5	the bill that got in the public for what that cost
6	in DBMP, so that gives us a benchmark of what it
7	may cost here to put a dollar figure on that
8	burden.
9	Q. Is there anything else any other
10	information you're relying on to offer an opinion
11	on DCPF's burden in this case?
12	A. Not beyond anything that's in my
13	report.
14	Q. You rely on the Richard Wyner
15	declaration in your declaration, correct?
16	A. On the if you can point me to
17	where.
18	Q. The Richard Richard Wyner is the
19	DCPF COO, and there was a declaration submitted.
20	It's cited in your report.
21	I can
22	A. I'm just asking you to reference

Page 190 1 where in my report do I rely on it? 2 I'm not -- I don't have that mapping 3 at the tip of my fingertips. 4 If you point me to where, that's --5 0. Sure. It's Footnote 16 -- 13 and 16. 6 7 Α. Okay. 8 Q. You are relying on the Richard Wyner 9 declaration in forming your opinions related to 10 DCPF's burden in this case, correct? 11 I'm relying on the specific statement Α. 12 that the data all resides in electronic format. 13 Ο. Any other part of the declaration 14 that you're relying on? I'm looking at these two sentences in 15 Α. 16 the footnotes therein and that it's organized by 17 Claimant. 18 Anything else? Q. 19 Without reviewing the totality, I'm Α. 20 not sure it relates to anything else. sentences of those two footnotes -- that's what the 21 2.2 footnotes are supporting.

Page 191 1 Ο. Have you reviewed the entirety of 2 Richard Wyner's deposition -- declaration submitted 3 in this case? I did read that at one point in time. 4 Α. 5 0. Do you dispute any part of it? I don't recall, one way or the other, 6 Α. sitting here. 8 Ο. Sitting here today, do you dispute 9 any statement made in Mr. Wyner's declaration? 10 Α. I don't -- to the degree he has a statement that any of my opinions are contradictory 11 12 of, then the answer to that would be yes, but I 13 haven't tried to map specifically his statements to 14 my opinions. 15 Ο. In Paragraph 22 of your declaration, 16 you state, In fact, I would expect the 17 Aldrich/Murray data production process would be 18 even less burdensome than the Bestwall and DBMP 19 process because DCPF -- DCPF has already developed 20 applicable algorithms through responding to similar 21 requests for the Bestwall and DBMP Debtors. 2.2 Did I read that part of your

Page 192 1 declaration correctly? 2 Α. You did. 3 Specifically, what are the algorithms Ο. 4 DCPF has already developed that are referenced in 5 that declaration? Α. Extracting the data fields would be 6 an almost identical query to the query that was run 8 in the other, particularly DBMP. The review for 9 looking for whatever protocols -- I don't know what 10 protocols they used -- but whatever protocols they developed to review and remove any PII or PHI that 11 12 might be in the fields. They've already developed 13 those protocols and applied them before. So they 14 have the benefit of that experience to work on when 15 they do it again. And so almost always, your 16 second time doing that exercise is less expensive 17 than your first time because you have the benefit of that experience. 18 19 So -- so the benefit of the Ο. 20 experience, is that what you're referring to as an 21 algorithm? 2.2 Α. Writing the algorithm and then the

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protocols, the processes they put in place. They had to develop some process for reviewing and redacting. And the other piece that's in there because of the likely overlap, if they chose to cross-reference with the records that they already produced in DBMP in their production process, the ones that had information that needed to be redacted from DBMP, they could bring over the redacted field and not have to redo the redaction.

So the overlap should make it less expensive because they've already done it for subpopulation, and the fact that they have the experience of having done it before and they aren't developing the protocols should make it less expensive.

Q. Do you have any firsthand knowledge of the process that DCPF employs to review and redact these records?

MR. EVERT: Objection: asked and answered.

THE WITNESS: No.

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Page 194 1 BY MR. GUERKE: 2 0. Even though the subpoena doesn't 3 specifically request personal identifying information, you agree that it would capture 4 5 certain personal identifying information, right? Α. That is the allegation by the Trusts. 6 I understand their allegation. You know, it is 8 not -- there's traces when you build a database and If they've chosen to include 9 the exposure fields. 10 that type of information in an exposure field, then 11 it could be there. 12 They assert that some of those 13 exposure fields contain that information. 14 that's -- their position is it does. You could imagine a database about 15 16 exposure that doesn't have PII in because that's 17 really not relevant to the exposure. 18 So if you had a clean exposure field, 19 then you wouldn't have that issue. Right? 2.0 the fact that their exposure field isn't clean, 21 it's contaminated with PII, that creates this 2.2 issue. It wasn't obvious at the time of issuing,

Page 195 1 seeking the data that that would be the case. 2 Ο. But you don't dispute that is 3 the case, right? I -- I don't dispute the assertion. 4 Α. 5 Are you measuring DCPF's burden by Ο. using the \$86,000 billed in production costs in 6 DBMP? 8 Α. I view it as a relevant data point. 9 I don't think they're going to be at the exact same 10 number next time. 11 I mean, from a burden perspective, 12 it's more about the hours, because that's --13 ultimately, that was paid by the Debtors and DBMP, 14 as I understand it. So the financial burden was 15 borne by the Debtors, but it's the scope of the 16 exercise. 17 Ο. You don't know what the per record 18 review costs for these Debtors' subpoenas will be 19 for DCPF, right? 20 So you can get a rough estimate. And Α. 21 if -- you can look at things like the Garlock data 2.2 and estimate how many Trusts a typical Claimant

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goes -- would file a claim against. You can take the \$86,000, the number of claims that were reviewed, divide, and you're going to be on the order for that of about ten cents a record.

Now, that doesn't mean we will come in at exactly ten cents a record here, but it was kind of if you do that back-of-the-envelope math, you'll see it more on that order.

- Q. You're speculating what -- what -- it would be speculation to try to determine what DCPF's costs would be to respond to these Debtors' subpoena, right?
- A. I wouldn't go and say it's speculation. You have an estimate. You can look at what did it cost them to respond to the DBMP subpoena, which was substantively identical in nature. And so you have a very good benchmarking exercise.

It's not pure speculation. That would be -- you know, it is an estimate, but I wouldn't call that pure speculation. You know, the -- almost perfect comparable to gauge what the cost

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Page 197 1 would be. 2 Ο. DBMP included roughly 9,000 3 Claimants, right? 4 Α. Correct. 5 Aldrich and Murray include roughly 0. 12,000 Claimants, correct? 6 7 Α. Correct. 8 Ο. So there are 3,000 more Claimants in 9 play in this case, right? 10 Α. Correct. 11 So you would expect the costs of Q. 12 production in this case to be greater than in DBMP, 13 correct? 14 I don't think you can draw that Α. conclusion. If there was zero overlap in the 15 16 Claimants and your exercise is one-third larger, 17 rough order, you would probably expect it to cost 18 one-third more. 19 There may be some start-up costs, and 20 so the start-up costs you have once, and then the 21 per-claim file review. So maybe it's a little less 2.2 than one-third more, because you don't have to do

Page 198 1 the start-up costs an extra time. You still have 2 that once, but that's ignoring the overlap in the 3 Claimants. 4 So if, hypothetically, 6,000 of the 5 Claimants overlapped and that redaction had already been completed, maybe you only have to look at 6 6,000 Claimants, because those are the ones that 8 haven't been done. And then you would expect it 9 would be less expensive. 10 If only 2,000 overlapped and so you had to look at 10,000, you would expect it to be a 11 12 little more expensive. I don't know the exact 13 overlap, but I would think they would take 14 advantage over that overlap because they could 15 materially reduce their cost. 16 Ο. Whatever the review costs would be, 17 it would be less with a sample, correct? 18 Α. Correct. 19 MR. EVERT: Kevin, let me 20 interrupt you for a second. 21 He's available from 1:00 to 5:00, and it will be 5:00 -- it's four minutes to 2.2

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1	5:00. We I know you got a little more to
2	go, but I'm just wondering would it assist
3	things if we can try to expedite to take
4	five minutes and get organized, or are you
5	close to finishing or just trying to get a
6	sense
7	MR. GUERKE: I'm using the
8	5:00 p.m. as where I'm trying to finish.
9	It's up to you. I will take five minutes and
10	try to streamline it
11	MR. EVERT: No. If you think
12	you're there
13	MR. GUERKE: I will go until
14	you tell me to stop.
15	So you when are you going to
16	tell me to stop?
17	MR. EVERT: I'm not going to tell
18	you stop at dead 5:00 is he last? Anybody
19	else?
20	MR. HOGAN: I have one I had
21	one series of questions about Paragraph 16,
22	and that will take me probably 10 minutes.

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1	MR. GUERKE: Let me just go
2	through
3	MR. EVERT: You want to try to
4	make it to 5:00, and then Dan will take it
5	from there?
6	MR. GUERKE: I will go through
7	this series of questions and hand it off.
8	Thank you.
9	BY MR. GUERKE:
10	Q. Are you aware that November 30th, the
11	Court ruled on DCPF and the DCPF's Trusts motion to
12	quash?
13	A. I know there was such a ruling. I
14	couldn't tell you the date.
15	Q. And it was a 10 percent sample
16	ruling, right?
17	A. There I'm aware that his
18	decision for 10 percent sample, yes.
19	Q. In December, after that that
20	decision was rendered, the Debtors proposed a
21	stratified random sampling protocol to the parties
22	involved in in this case.

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Page 201 Are you familiar with that? 1 2. I'm very familiar with that. Α. 3 Were you involved in preparing that Ο. stratified random sample? 4 Α. 5 Yes. 6 Ο. Were you in charge of that -- that 7 process? Is that your work product? 8 Δ I directed all the work on that; 9 that's correct. 10 Ο. The proposed sample that was 11 circulated December 19th was sufficient for your 12 purposes in this case, correct? 13 MR. EVERT: Object to the form of 14 the question. 15 THE WITNESS: I would not describe 16 it that way. 17 So given there's now external 18 constraint, the most data you can have is 19 10 percent. I want all 10 percent. That's 20 the most I'm allowed to have, and I'm going 2.1 to try to design a sample that will get me 22 the greatest level of efficiency I can out of

Page 202 those data. 1 2. All right. But it's a constraint If the Court orders it, whether you 3 like it or not, whether you think it's the 4 right decision or not, you live with it. 5 So it was going -- I just accepted 6 7 that things weren't going to be as precise 8 and I'd give less guidance to the Court than 9 I believe was optimal given the cost-benefit 10 analysis here. 11 BY MR. GUERKE: 12 And the sample that you prepared Ο. 13 would have worked in your analysis, correct? 14 MR. EVERT: Object to the form of 15 the question. 16 THE WITNESS: So the guestion I 17 gave before to work could be the same answer 18 now -- the answer I gave to the similar 19 question would be the same now. 20 BY MR. GUERKE: 2.1 The -- are you finished with your Ο. 22 answer? I didn't mean to interrupt you.

Page 203 1 Α. Yes. 2 0. The proposed stratified random sample 3 that -- that the Debtors circulated is a representative and efficient sample. 4 5 You would agree with that, correct? Α. That is its intent, is to be as 6 efficient -- it is definitively representative. 8 It's trying to squeeze as much efficiency out of 9 the sample of 1,200 as one can. 10 And the -- the -- the proposed Ο. stratified random sample would provide a reliable 11 12 cross-section of Debtors' mesothelioma claims 13 settlement history, correct? 14 I can't go to that point Α. Reliable? 15 at this. I haven't done the analysis. 16 This is where it goes back to the 17 same as does it work. For certain questions, that 18 is very likely to turn out to be enough. And for 19 other questions, I think there's a very high 20 probability that it's not sufficient and will end 21 up with very broad confidence intervals. 2.2 Q. The sample that you prepared and was

2.2

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circulated to the parties was seeking information for the period 2014 to the present, right?

A. Well, part of that negotiation was if we are going to be constrained to just 1,200 Claimants, the more recent Claimants are -- answer more questions than the ones further back. I gave some answers before about the further back ones are to get demographic trends. The more recent ones contribute both to the demographic trends and to this question of were all the exposures disclosed. So there's more information for the purpose of estimation.

So I made the determination that dropping all the earlier claims and losing that information on trend was better than risking not being able to answer the questions on full disclosure. It's a trade-off. It may render, being able to control for the trends properly, impossible. But I'm now facing an external constraint, and I'm trying to do the best I can within that constraint.

Q. And you could have performed your

Page 205 1 analysis with Trust data from 2014 to the present, 2 right? 3 MR. EVERT: I object. 4 And, Kevin, I've got to say I 5 object to this entire line of questioning, because that was a 408 effort to compromise a 6 disputed issue in the case. And I think it's 7 8 inappropriate to use an e-mail that a lawyer 9 wrote to cross-examine him about what --10 about what the lawyer's intent was in trying 11 to get the case settled. 12 MR. GUERKE: This was after the 13 ruling --14 MR. EVERT: I understand, but we 15 still had a disputed issue about how to draw 16 the sample. 17 But I just -- I'm sorry. Note --18 note for the record my objection to the -- to 19 the entire line of questioning. I think it's 20 inappropriate. 2.1 But you're welcome to have the 22 question read back or ask it again.

Page 206 1 THE WITNESS: I, as a person who 2. is going to ultimately potentially file an estimation report, made the judgment call 3 that I'd rather risk not being able to -- I'd 4 rather risk not being able to control for the 5 6 industry and occupation mix of Claimants and those trends demographically than not being 7 8 able to reliably quantify the number of 9 exposures that were being disclosed. 10 I was forced into having to make a 11 trade-off I would not want to make that I 12 don't think the cost-benefit analysis 13 supports. But I'm very much putting at risk 14 being able to properly control for the 15 demographic trends by constrained 2014. 16 But I had to give something up. 17 had a Court order. So I decided what would 18 create an expectation the least harmful 19 within that month. 20 MR. GUERKE: Based on the time, 2.1 Dr. Mullin, I'm going to pass the witness. 22 Thank you very much.

	Page 207
1	THE WITNESS: Thank you.
2	00
3	EXAMINATION BY COUNSEL FOR
4	CERTAIN MATCHING CLAIMANTS
5	00
6	BY MR. HOGAN:
7	Q. Good afternoon, Dr. Mullin. It's
8	Daniel Hogan on behalf of the Certain Matching
9	Claimants. I will try not to take too much of your
10	time, but I appreciate your time today.
11	A. Good afternoon.
12	Q. I'd ask you to direct your attention
13	to Paragraph 16 of your declaration. I'm going to
14	attempt to endeavor to limit it my questions to
15	this paragraph.
16	If you would, the first sentence
17	provides that The Trust data are also needed to
18	assess whether the Debtors entered into settlements
19	aware of the totality of alternative exposures.
20	Would you agree with me that that's a
21	temporal exercise?
22	A. What do you mean by "temporal

Page 208 1 exercise"? 2 Ο. Well, the statement, in -- in and of 3 itself, is a statement about what the Debtors were aware of. 4 5 An awareness is a state of mind. Would you agree? 6 7 Α. "Knowledge" in this sense is probably the word I would use. 8 9 Ο. Okay. And from a temporal aspect, 10 there's a point in time at which somebody is either 11 aware or has knowledge of something or they don't 12 have knowledge of something. 13 Would you agree? 14 Correct. Α. 15 Q. Okay. And so from -- from this 16 statement's standpoint, at some point in the 17 Trust -- or in -- in the Debtors' database, there 18 is a determination about what the Debtor knew and 19 when they knew it. 20 Would you agree? 21 MR. EVERT: Object to the form of 2.2 the question.

Page 209 1 THE WITNESS: I don't think, in 2 their database, that information is there. Ι 3 think that's something, generally, you have to go to underlying claim records for. 4 5 That's not, in general, available in their claims database in electronic form. 6 BY MR. HOGAN: 7 8 0. Okay. So your statement is that the 9 Trust data from DCPF from Verus is needed to assess 10 whether the Debtors entered into settlements aware of the totality of alternative exposures. 11 12 So let's just break it down. 13 At some point, there's a -- there's a 14 state of mind of the Debtors about what they knew 15 about alternative exposures. And if you look at 16 that on a timeline, there's some point at which 17 they didn't know it. And somewhere along that 18 continuum up till now, they became aware. 19 Would you agree? 20 MR. EVERT: Object to the form of 21 the question. 2.2 THE WITNESS: I don't agree with

Page 210 1 the temporal part. I don't know if they're, 2 even as of today, aware of the totality of 3 the exposures. So I don't -- I can't agree that as of -- at some point in time, they 4 5 became aware of the totality. This sentence is very much looking 6 at the time of settlement. 7 8 BY MR. HOGAN: 9 Ο. At the time of what settlement? 10 Maybe that'll help. 11 Α. When the Debtors entered into a 12 settlement with a given Claimant. 13 Ο. Okay. So you would agree with me, I 14 hope, that at the time that the Debtors entered 15 into a settlement with any particular matching 16 Claimant or any Claimant that they settled with, 17 that they -- they either knew or didn't know of 18 alternative exposures? 19 Α. There would be a set of alternative 20 exposures they would be aware of, typically, and 21 there may be zero or multiple exposures they're not 2.2 aware of.

	Page 211
1	Q. Okay. And how they came to that
2	awareness is critical.
3	Yes or no?
4	MR. EVERT: Object to the form of
5	the question.
6	Critical to what?
7	BY MR. HOGAN:
8	Q. Critical to their understanding and
9	determination about whether to make the settlement.
10	A. So it's the that is not the
11	only determinant that goes into a settlement
12	decision
13	Q. I understand that
14	A so
15	Q but it is
16	A context
17	Q but it is one pardon me.
18	A it is one it is one element
19	that goes into a settlement. It's not the only
20	element. So context of many other things could
21	matter.
22	Q. But you state that, Specifically, the

Page 212 1 data would also allow us to compare exposure 2 allegations to the products of the reorganized 3 entities for which the Trusts were established with 4 exposure -- with exposure those same Claimants 5 disclosed in their tort litigation against the Debtors. 6 Is that a fair statement? 7 8 Did I read that correctly? 9 Α. Pretty close, I think. 10 Ο. You had testified earlier that you 11 largely have a mathematical model for everything; 12 isn't that right? 13 Α. Ultimately, you're going to reduce 14 things to computations if you're doing a damages 15 analysis, which is what I'm doing. 16 Ο. So have you reduced the Debtors' 17 knowledge as it relates to settlements about what 18 their knowledge of other alternative exposures 19 were? 2.0 MR. EVERT: Object to the form of 21 the question. 2.2 THE WITNESS: Not at this stage.

Page 213 1 BY MR. HOGAN: 2 Q. Will you? 3 Ultimately, my task is to give a Α. numerical quantification, so I have to reduce 4 5 everything to numbers eventually. So that's mathematics. So, ultimately, I will be doing that 6 through mathematics. 7 8 Ο. So the answer is yes, you will be 9 doing that? You will be reducing the Debtors' 10 knowledge of alternative exposures at the time of 11 settlement? 12 MR. EVERT: Object to the form of 13 the question. BY MR. HOGAN: 14 15 Q. Is that a correct answer -- is that a 16 correct question -- do you understand the question? 17 Α. No. I think you needed another 18 phrase at the end of it for it to make sense. 19 My apologies. I'll rephrase the Ο. 20 question. I'll strike that. You testified that there is a 21 mathematical model that you will reduce information 2.2

Page 214 1 to. 2 And I'm asking you about -- with 3 regard to settlements that the Debtor entered into, you're going to make a determination in a 4 5 mathematical model which will address whether or not they were aware of alternative exposures when 6 they made that settlement? 7 8 Α. Well, there's a factual question of 9 what fraction of them they're aware of. That's a 10 ratio --11 Q. Sure. 12 -- so the impact of that on the Α. 13 settlement is really going to Paragraph 17. 14 So if we're transitioning to 15 Paragraph 17, which I didn't think we were doing, 16 we're getting into the impact. The -- Paragraph 16 17 is just if you're exposed to 38 products and the 18 Debtor only knew about three of those at the time 19 they settled or maybe the Debtor knew about 38 at 20 the time they settled, that's a factual question --21 Q. Sure. 2.2 Α. -- that's all Paragraph 16 is talking

Page 215 1 about, that factual question. 2 How that enters into an estimate --3 estimate of future liability becomes a modeling question, which is moving into Paragraph 17. 4 5 Okay. Before we do that, let's talk about what you just said about the mathematical 6 aspect of that. 7 If I take that calculus that you just 8 9 undertook and overlay an administrative settlement 10 on top of it, how does that factor into that 11 calculation? 12 MR. EVERT: Object to the form of 13 the question. 14 It depends on the THE WITNESS: nature of the administrative settlement. 15 16 becomes fact-specific. 17 BY MR. HOGAN: 18 Q. Okay. And you understand generally 19 how administrative settlements work? 20 There's a whole range of them --Α. 21 I --Q. 2.2 -- I understand generally the range Α.

	Page 216			
1	of administrative settlements in the asbestos			
2	environment.			
3	Q. Okay. So you understand that in a			
4	large share of those administrative settlement			
5	constructs, that there weren't questions asked			
6	about alternative exposures.			
7	Do you understand that?			
8	A. I am aware that there are			
9	administrative settlements where that information			
10	is not exchanged.			
11	Q. You're aware that there's			
12	administrative settlements where that information			
13	is not requested?			
14	A. I believe that's true as well.			
15	MR. HOGAN: All right. I don't			
16	have anything else. Thanks for your time.			
17	MR. EVERT: All right. Thanks,			
18	everybody.			
19	(Witness excused.)			
20				
21	(Deposition concluded at			
22	approximately 5:11 p.m. EDT.)			

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CERTIFICATE

I, Cindy L. Sebo, Nationally Certified Court
Reporter herein do hereby certify that the foregoing
continued deposition of CHARLES HENRY MULLIN, PH.D.
was taken before me pursuant to notice, at the time
and place indicated; that said witness was previously
duly sworn remotely by a certified stenographer to
tell the truth, the whole truth, and nothing but the
truth under penalty of perjury; that the testimony of
said witness was correctly recorded to the best of my
ability in machine shorthand and thereafter
transcribed under my supervision with computer-aided
transcription; that the deposition is a true and
accurate record of the testimony given by the witness;
and that I am neither of counsel nor kin to any party
in said action, nor interested in the outcome thereof.

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Cindy L. Sebo, RMR, CRR, RPR, CSR, CCR, CLR, RSA, NYRCR, NYACR, CA CSR #14409, NJ CCR #30XI00244600, NJ CRT #30XR00019500, Washington CSR #23005926, Oregon State #230105, TN #CSR 998, Remote Counsel Reporter, LiveLitigation Authorized Reporter

2.

Page 218 1 C. Michael Evert, Jr., Esq. 2. cmevert@ewhlaw.com May 9, 2023. 3 4 RE: Armstrong World Industries, Inc., et al. v. Aldrich Pump LLC, et al. 5 5/8/2023, Charles Henry Mullin , Ph.D. (#5905066) The above-referenced transcript is available for 6 7 review. Within the applicable timeframe, the witness should 8 9 read the testimony to verify its accuracy. If there are 10 any changes, the witness should note those with the 11 reason, on the attached Errata Sheet. 12 The witness should sign the Acknowledgment of 13 Deponent and Errata and return to the deposing attorney. 14 Copies should be sent to all counsel, and to Veritext at 15 cs-ny@veritext.com. 16 Return completed errata within 30 days from 17 receipt of testimony. If the witness fails to do so within the time 18 19 allotted, the transcript may be used as if signed. 20 21 Yours, 22 Veritext Legal Solutions

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1 2 3 4	E R R A T A WITNESS: CHARLES HENRY MULLIN, PH.D. DATE: May 8, 2023 CAPTION: Armstrong World Industries v. Aldrich, et al., In Re; Aldrich Pump, LLC
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22	DATE CHARLES HENRY MULLIN, PH.D.

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1	ACKNOWLEDGMENT OF WITNESS
2	
3	I, CHARLES HENRY MULLIN, PH.D., do hereby
4	certify that I have read the foregoing pages herein,
5	and that the same is a correct transcription of the
6	answers given by me of the proceedings taken remotely
7	to the questions therein propounded under penalty of
8	perjury, except for the corrections or changes in form
9	or substance, if any, noted in the attached errata
10	sheet.
11	
12	DATE SIGNATURE
13	Subscribed and sworn to before me
14	this day of, 20
15	
16	
17	My Commission expires:
18	
19	
20	
21	
22	Notary Public

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