

1 DNREC Virtual Public Hearing  
2 Purposed Concentrated Animal Feeding Operations (CAFO)  
3 General Permit DE 0051233  
4  
5 Docket No. 2025-P-W-0023

6  
7  
8 Moderated by Lisa Vest, Hearing Officer

9 Tuesday, January 20, 2026

10 6:00 p.m.

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13 Remote Proceeding  
14 89 Kings Highway  
15 Dover, DE 19901  
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21 Reported by: Carlo Florio  
22 JOB NO.: 7811583  
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24

## A P P E A R A N C E S

### List of Attendees:

Jessica Brewer, DNREC Division of Water

Brooke Walls, DDA Nutrient Management Program

Westley Look, DNREC Tech (by videoconference)

Spencer Giddings, DDA (by videoconference)

Kathy Martin, Registered Commenter

Maria Payan, Registered Commenter

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1 C O N T E N T S

2 PAGE

3 Ms. Brewer

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E X H I B I T S		
NO.	DESCRIPTION	ID/EVD
Exhibit 1	Draft of CAFO General Permit Number DE 0051233	18/18
Exhibit 2	Draft Fact Sheet for General Permit Number DE 0051233	18/18
Exhibit 3	Regulations Governing the Control of Water Pollution (7 DE Admin. Code 7201)	18/18
Exhibit 4	Concentrated Animal Feeding Operation Regulations (7 DE Admin. Code 7201, Section 9.5)	18/18
Exhibit 5	Nutrient Management Regulations (3 Del. C. Chapter 22)	18/18
Exhibit 6	State Technical Standards	18/18
Exhibit 7	State Technical Standards Amendments, August 2017	18/18
Exhibit 8	State Technical Standards Amendments Approval, October 2017)	18/18
Exhibit 9	CAFO General Fact Sheet	18/18

	E X H I B I T S (Cont'd)	
	NO.	DESCRIPTION
		ID/EVD
1		E X H I B I T S (Cont'd)
2	NO.	DESCRIPTION
3	Exhibit 10	Memorandum of Agreement between DNREC the Delaware Department of Agriculture
4		18/18
5	Exhibit 11	CAFO Notice of Intent Form
6		18/18
7	Exhibit 12	Request for Public Hearing, with Attachment, from Maria Payan, Executive Director, Sussex Health & Environmental Network, 8/2/2025
8		18/18
9	Exhibit 13	Public Notice of the Hearing in the News Journal, 12/19/2025
10		18/18
11	Exhibit 14	Public Notice of the Hearing in the Delaware State News, 12/19/2025
12		18/18
13	Exhibit 15	Notice of the Hearing as Posted on the state of Delaware Public Meeting Calendar, 12/18/2025
14		18/18
15	Exhibit 16	Notice of the Hearing as Posted on the DNREC Website, 12/19/2025
16		18/18
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	E X H I B I T S (Cont'd)	
NO.	DESCRIPTION	ID/EVD
Exhibit 17	DNREC Presentation	18/18
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## P R O C E E D I N G S

2 THE HEARING OFFICER: The time is  
3 6 p.m. It is Tuesday, January 20, 2026, and we are  
4 going to go ahead and begin the proceedings for this  
5 evening.

6 I want to thank everyone for taking the  
7 time out of their busy schedules to connect. We are  
8 here today to provide the virtual platform for the  
9 department to conduct its public hearing.

17 I have a few introductory remarks.  
18 Following that, I will be turning the floor over to  
19 department personnel. They have a brief presentation  
20 for the benefit of the record.

21 That presentation will of course be  
22 posted on the hearing webpage that's dedicated to the  
23 CAFO permitting matter, and I would encourage everyone  
24 to go and review that on their own time as there is a

1 lot of information on there.

2 The court reporter is also here  
3 tonight. They will prepare a verbatim transcript of  
4 the hearing pursuant to DNREC statutory requirement to  
5 do so. And as always, that transcript, once we  
6 receive it, will be posted on the hearing webpage as  
7 well.

11 Before we go any further, it's  
12 important to set the parameters for tonight's  
13 proceeding.

14 As we know, the purpose of this public  
15 hearing is to build the record regarding this  
16 permitting matter. It provides the legal platform for  
17 the public to learn about the pending permit matter,  
18 as well as gathering comment concerning the same from  
19 members of the public that have signed up to do so.

1                   While all comments are appreciated, I  
2 must remind everyone that each comment must be limited  
3 solely to the subject matter of tonight's hearing.

4                   All such comments, whether received  
5 verbally this evening, or whether they come in writing  
6 either before or after the hearing; they all bear the  
7 same weight, and they'll all be considered by  
8 Secretary Patterson prior to his making any decision  
9 on this matter.

10                  I also want to make sure everybody  
11 realizes that only comments submitted directly to  
12 DNREC and entered by the hearing officer into the  
13 record will be posted on the hearing page.

14                  The department has not partnered with  
15 any additional organizations or websites to assist  
16 with the acceptance of comments in this matter, so  
17 please only submit comments to DNREC directly.

18                  For those that have pre-registered with  
19 the department to offer comment tonight, each person  
20 will be given three minutes of time to offer their  
21 comments.

22                  If either unable to finish saying  
23 everything that they want to say, that's absolutely  
24 fine. The record will not close at the conclusion of

1 | tonight's proceedings.

Rather, we're going to keep the record open all the way from tonight through February 4th. That gives the public an additional time allotment. If they wish to offer comments concerning CAFO, we strongly encourage that.

13 I do need to list the following  
14 protocols which apply to all DNREC public hearings,  
15 and then we'll go ahead and get started.

16 Number one, all comment received must  
17 be limited solely to the subject matter of tonight's  
18 hearing. All comments pertinent to that subject  
19 matter will be incorporated into the hearing record  
20 and posted on the hearing webpage dedicated to this  
21 matter.

22 Two, as I've mentioned already, the  
23 record will not close at the conclusion of tonight's  
24 proceedings. Rather, it remains open for receipt of

1       public comment all the way through to February 4th.

2                         Number three, there is only one  
3       authentic record of these formal proceedings, and it  
4       will be the transcript as provided by the court  
5       reporter. And again, as soon as we get that from  
6       Veritext, it will be posted on the webpage.

7                         Number four, as previously noted, the  
8       statutory purpose of the hearing tonight is to build  
9       the record with regard to this permitting action.

10                        A record consisting of the transcript  
11       of tonight's hearing, any and all written comments  
12       received, all exhibits, and events -- and eventually  
13       my report basically summarizing this review will all  
14       be sent to Secretary Patterson. He will review it in  
15       its entirety prior to making any decision in this  
16       matter.

17                        Lastly, it's important to note that no  
18       decision has been made by the department with regard  
19       to this pending action, nor will any decision be made  
20       tonight at the time of this hearing.

21                        And again, the record will remain open  
22       through February 4th to accommodate those members of  
23       the public to offer additional comment if they wish to  
24       do so.

1                   With that being said, I am going to  
2 turn it over to Jessica Brewer. She has a brief  
3 presentation to explain exactly what CAFO is and a  
4 little bit of why we're here this evening.

5                   So, Jessica, when you're ready, you can  
6 proceed.

7                   MS. BREWER: Thank you, Lisa.

8                   I just want to say hello and welcome to  
9 everyone. Thank you for joining us this evening. The  
10 purpose of this hearing is to provide the public an  
11 opportunity to comment on the renewal of the following  
12 permit, which is the CAFO General Permit 005123,  
13 large, medium, and designated poultry CAFOs with the  
14 application of manure.

15                   For the remainder of this presentation,  
16 you are going to hear me refer to the specific permit  
17 as GP2 because that's what we generally refer to it as  
18 instead of saying the long version of it.

19                   So to start out, an animal feeding  
20 operation is a facility where animals other than  
21 aquatic are stabled, confined, and fed maintain for a  
22 total of 45 days or more within a 12-month period.  
23 The animal confinement areas do not sustain crops,  
24 vegetation, forage growth or post-harvest residues in

1 the normal growing season.

2                   Two or more AFOs under the common  
3 ownership are considered a single AFO for the purposes  
4 of determining the number of animals that are within  
5 an operation.

6                   Delaware AFOs have -- fall under eight  
7 animal units or more under the Department of  
8 Agricultural nutrient management laws and regulations.  
9 These operations are required to develop and maintain  
10 an animal waste management plan, which is referred to  
11 as an AWMP and submit it to DDA.

12                  The operations applying livestock waste  
13 are required to develop and submit a nutrient  
14 management plan referred to as an NMP, which covers  
15 both the livestock and land. Please note that an  
16 animal unit is equivalent to a thousand pounds.

17                  So it is a CAFO general permit, and a  
18 CAFO is a concentrated animal feeding operation. We  
19 define that based on this chart when we're looking at  
20 the animal numbers to see what they fall under,  
21 whether it's a medium CAFO or a large CAFO.

22                  For this specific permit, if you look  
23 at the second row, we look at the chickens except for  
24 laying hens. So a medium CAFO would be 37 -- 37,500

1        chickens up to 124,999. Anything above 125,000 would  
2        be considered a large CAFO.

3                The Delaware CAFO program is a  
4        regulatory program that issues national pollution  
5        discharge elimination system permits, also referred to  
6        as NPDES permits. This program is overseen by the  
7        EPA, but it has delegated responsibility to the state  
8        of Delaware.

9                Through this, we are implementing that  
10       responsibility jointly through DNREC and also the  
11       Department of Agriculture.

12                DNREC is responsible for issuing  
13       permits and -- along with other regulatory components  
14       of the program. While DDA is the primary point of  
15       contact for the regulated community and is responsible  
16       for conducting inspections, collecting documentation,  
17       and reviewing the plans for those facilities.

18                In Delaware, we have three general CAFO  
19       permits. The first one is GP1, which is large,  
20       medium, and designated poultry CAFOs. GP2 is what  
21       we're meeting here tonight for. So this is the large,  
22       medium, and designated poultry CAFOs with the  
23       application of manure. And everything else falls  
24       under GP3, which is the large, medium, and designated

1 non-poultry and diversified CAFOs.

Large and medium CAFOs have different effluent limitations. The large ones may not discharge of any manure, litter, and/or process wastewater pollutants to the waters of our state from the production area except for in the case of a precipitation event exceeding a 25-year, 24-hour rainfall event. And the production area is maintained and operate in accordance with the measures and records required by our CAFO regulations.

11 For medium and designated CAFO effluent  
12 limitations, they must -- the operations must adhere  
13 to all of their best management practices, referred to  
14 as "BMPs." And then those are addressed in their  
15 plans concerning management activities of the manure,  
16 litter, or process wastewater in accordance with our  
17 state technical standards.

18 Our plan requirements. So these are  
19 including, but not limited to the animal numbers and  
20 capacity; manure, litter, and process wastewater  
21 storage procedures; the estimated manure generation;  
22 mortality management procedures; the animal mortality  
23 disposal methods; properly labeled field maps and  
24 aerial photographs; clean water diversion systems; no

1 livestock directly in contact with the waters of the  
2 state; chemical and contaminant disposal practices;  
3 buffers and other runoff BMPs; manure, litter, process  
4 wastewater, and soil testing protocols; manure,  
5 litter, and process wastewater application protocols;  
6 manure analysis results; and records of the  
7 implementation.

8 For our permitting process, the  
9 applicants must submit a notice of intent, which we  
10 call an NOI form, along with their plan. All complete  
11 applications are then publicly noticed to be covered  
12 under the CAFO NPDES'S general permits.

13 The public notice is advertised in two  
14 newspapers for one day and also available on our  
15 website during a 30-day comment -- public comment  
16 period.

Upon completion without comment of the 30-day period, applicants will receive a letter granting them permit coverage. This permit coverage is good for five years unless administratively extended.

22 If there is a comment received and  
23 deemed meritorious of a hearing, DNREC will proceed  
24 with a public hearing like we are tonight following

1 the protocols listed on the DNREC hearing page.

2                   If anybody has any questions, I did  
3 want to include our contact information, whether it's  
4 about the specific permit or the CAFO program in  
5 general. My contact information for DNREC is on the  
6 left. And then also the point of contact for the CAFO  
7 program from DDA is Brooke Walls, and I have her  
8 information here as well.

9                   And with that, I just want to thank  
10 everyone for being here tonight and listening.

11                   Again, as Lisa already stated, we will  
12 accept public comments on this matter through  
13 February 4th of this year. So if you didn't have a  
14 chance to sign up to speak tonight, we would love to  
15 get your comments in writing as well.

16                   Thank you.

17                   THE HEARING OFFICER: Okay. Thank you,  
18 Jessica.

19                   Just one quick note for the benefit of  
20 the record. There are exhibits that DNREC is  
21 proposing to have entered as formal exhibits. Are  
22 they all, at this point, on the hearing page dedicated  
23 to this matter?

24                   //

1 (Exhibits 1 through 17 were marked for  
2 identification.)

3 MS. BREWER: Yes, they are.

4 THE HEARING OFFICER: Okay. And have  
5 they changed in any way, shape, or form since their  
6 posting?

7 MS. BREWER: I believe the last update  
8 was last week, and that was just adding the  
9 translations of this presentation.

10 THE HEARING OFFICER: Excellent.

11 Then again, just for bookkeeping  
12 purposes, let the record reflect that the DNREC  
13 exhibits as posted on the hearing page are hereby  
14 entered into the formal hearing record.

15 (Exhibits 1 through 17 were received  
16 into evidence.)

17 Jessica, is that all for the Division  
18 of Water at this time?

19 MS. BREWER: Yes, that is all. Thank  
20 you.

21 THE HEARING OFFICER: Thank you. All  
22 right. And you can go ahead and take down that so we  
23 can have the three-minute timer posted.

24 We will now turn to the portion of the

1 hearing this evening dedicated to the receipt of live  
2 comment. DNREC's public hearing process allows for  
3 members of the public to pre-register should they wish  
4 to offer a live comment.

5 We have two members of the public that  
6 have pre-registered for this evening. We always call  
7 members of the public in the order in which they were  
8 received as far as pre-registrants. So tonight we  
9 have Kathy Martin going first, and following that, we  
10 have Maria Payan.

11 Just as a reminder, comment must be  
12 limited to the CAFO permitting, which is the subject  
13 matter of tonight's hearing. Each commenter will be  
14 given three minutes of time in which to offer their  
15 comments. Your time will start when the person starts  
16 talking.

17 There is no sharing or yielding of  
18 anybody's time with each other. Each person gets  
19 three minutes. And, of course, if you run out of time  
20 and you fail to get everything said that you want to,  
21 that's fine. You can feel free to either supplement  
22 or just completely add more comments to what you've  
23 prepared to speak tonight.

24 As long as they are received by

1 February 4th, as I mentioned previously, they will be  
2 incorporated into the record, and they bear the same  
3 weight as if they were offered live.

4 So with that being said, our first  
5 person is Kathy Martin.

6 Westley, have we located Kathy on the  
7 attendance?

8 MR. LOOK: Yes. She -- she's been in  
9 attendance today.

10 THE HEARING OFFICER: Okay.

11 And, Kathy, I believe that you are  
12 unmuted. Can you hear me?

13 MS. MARTIN: Yes, I can.

14 THE HEARING OFFICER: All righty.

15 Westley will start the timer when you  
16 begin to speak. So whenever you're ready, you can  
17 begin.

18 MS. MARTIN: Good evening. Thank you  
19 for the opportunity to make these comments.

20 My name is Kathy Martin, and just a  
21 couple of things I'd like to talk about. We already  
22 submitted some written comments, and we'll submit some  
23 more.

24 On page 17 of the GP2, there is a item

1       called "public access to information." And I think  
2       it's important that we make sure that crop yields are  
3       available for public view and that that is not held as  
4       confidential information.

5                 The whole entire concept of allowing  
6       the disposal of CAFO waste on land is based on the  
7       crop's ability to uptake nutrients. And if we don't  
8       have access to the actual yield, then we're -- then,  
9       you know, we're working on fantasy numbers; correct?

10                So I -- I wanted to make that clear  
11       that the crop yield dictates the amount of nitrogen  
12       that the crop can use and the phosphorus. If we don't  
13       have the actual yields, if we're hiding that  
14       information, then the operator applicant could say  
15       anything as far as nutrient uptake.

16                And the public and the agency -- well,  
17       the public, for certain, wouldn't be able to  
18       contradict that because we wouldn't have their actual  
19       numbers.

20                And then the other thing I wanted to  
21       talk about is you had added some best management  
22       practices under the TMDL paragraph, such as cover  
23       crops, traditional commodity, soil conservation, water  
24       quality plans, conservation tillage, no-till.

1                   And none of those actually change the  
2 amount of manure that is land-applied every year on  
3 crops in Delaware that has the potential to build up  
4 nutrients, cause nutrient runoff, and pollution of  
5 surface water, cause seepage into the subsurface, and  
6 cause pollution of groundwater.

7                   And that if you are going to make a  
8 "hullabaloo" about adding additional best management  
9 practices, perhaps you should add some that actually  
10 reduce the amount of manure that's land-applied,  
11 thereby giving some hope of stopping the pollution  
12 that's been going on thus far.

13                   Thank you for the opportunity to make  
14 these comments.

15                   THE HEARING OFFICER: Thank you,  
16 Ms. Martin. Your comments are appreciated. And  
17 again, if you wish to supplement or anything else,  
18 feel free to do so. We'll go through the address and  
19 the ways that you can do that in a couple minutes  
20 here.

21                   The last person to comment tonight is  
22 Maria Payan.

23                   Maria, I believe you've been unmuted.  
24 Can you hear me?

1 MS. PAYAN: Yes, I can.

2 THE HEARING OFFICER: All righty. The  
3 timer will start when you do, so proceed when you're  
4 ready.

5 MS. PAYAN: Okay. Thank you for the  
6 opportunity to comment.

7 As most people know, I have a big  
8 concern with the water quality because of the geology  
9 here. We are on very sandy soils with a very high  
10 water table and some shallow wells. A lot of people  
11 are on well water. So that's key, I think, when it  
12 comes to the CAFO permits and nutrient management  
13 planning.

14 One thing I want to point out. We know  
15 that farming has changed a lot, especially in the last  
16 decade. What -- what used to be, you know, 400-foot  
17 barns with 20,000 birds are now 600-, 650-foot barns  
18 with 50,000 birds.

19 And when you have, you know, 12 of  
20 these at a time with a 5.5 rotation for each set of  
21 birds per year, you are talking sometimes over  
22 5 million birds at one site. Which when we look at  
23 the setbacks for the counties, they are different.

24 In Sussex County, we only have a

1       50-foot setback from the property line and 200 foot  
2       from dwellings. Which when you have these fans and  
3       millions of chickens housed at one time on a site,  
4       over a million, that's a lot of particulate matter and  
5       dust and things that are blowing out, and it will end  
6       up into the water.

7                   Everything that goes up must go down.  
8       There's ammonia deposition. And I worry about the  
9       health of not only the waterways but the neighbors  
10      being in such close proximity.

11                  I also wanted to comment about the  
12       stockpiling. I believe, like, that all -- if -- if  
13       you're going to have these houses, there should be  
14       adequate manure storage. To have this stockpiling out  
15       in the open where the weather can hit it -- and we are  
16       so prone to contamination -- I think is pretty much a  
17       recipe for disaster.

18                  So if we could put and make sure that  
19       every farm has appropriate manure storage on site,  
20       that would be a great help to our waterways.

21                  And I also wanted to -- I saw the  
22       memorandum of understanding, and permitting had  
23       changed to where the dry litter was now under --  
24       getting permits since 2011.

1                   But I believe after the last 2016, the  
2 memorandum of understanding, there was another  
3 agreement because they were so backlogged on the  
4 permits that so many had to be done per year between  
5 the EPA and DNREC and DDA. I don't see that up there,  
6 so I wanted to ask if they are all -- they have been  
7 currently updated now within the records.

8                   And we will be sending in some more  
9 written comments. But those are just some things I  
10 could think of.

11                   THE HEARING OFFICER: Okay. Great.  
12 Thank you, Ms. Payan. I appreciate your comments. As  
13 always, they are greatly appreciated.

14                   Jessica, if you're still there, I would  
15 ask that you put up that final slide of your  
16 presentation because that just shows how people  
17 comment, and it gives the address that they can  
18 comment to. If we could do that.

19                   As we move to go and conclude tonight's  
20 proceedings, I want to thank everybody for taking  
21 their time to join us and listen to the presentations.

22                   We want to remind everybody, as we  
23 always do, all the various ways that people can  
24 comment.

1                   Comment can be submitted through a  
2 comment link form on the hearing page. If you're  
3 online, and you're on the hearing page, you'll see a  
4 little button to the right, and it'll just say "click  
5 here for a comment."

6                   You can send it via email to  
7 dnrechearingcomments@delaware.gov. Or via the good  
8 old United States Postal Service at the physical  
9 address that you see on the slide.

10                  Thank you, Jessica.

11                  You can make it to my attention, and it  
12 goes to DNREC at the Office of the Secretary, 89 Kings  
13 Highway, Dover, Delaware 19901.

14                  I would like to note that written  
15 comment to DNREC may not be submitted using standard  
16 social media platforms, such as Twitter or X,  
17 Facebook, YouTube, or standardized text messaging.

18                  And again, please remember that all  
19 comment -- whether we heard it live this evening or  
20 whether it came in prior to the hearing or whether it  
21 comes in between now and February 4th -- as long as  
22 it's related to the subject matter of tonight's  
23 hearing, it will be incorporated into the record, and  
24 it will get posted on the hearing page. And it will

1       be taken into consideration prior to any decision  
2       being made.

3                   Again, this formal hearing, as do all  
4       DNREC public hearings; they act as a mechanism for,  
5       one, for the department to provide the platform for  
6       the public to come and hear about this stuff, and also  
7       to obtain comment from members of the public should  
8       they wish to do so.

9                   I want to thank everybody for coming  
10      again. Again, if you wish to offer comment, feel free  
11      to do so between now and February 4, 2026.

12                  I hope everybody has a lovely rest of  
13      the week. Stock up at the grocery store. It's  
14      supposed to snow.

15                  And this hearing is hereby adjourned.  
16                   (Whereupon, at 6:20 p.m., the  
17                   proceeding was concluded.)

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## CERTIFICATE

I, CARLO FLORIO, the officer before whom the foregoing proceedings were taken, do hereby certify that any witness(es) in the foregoing proceedings, prior to testifying, were duly sworn; that the proceedings were recorded by me and thereafter reduced to typewriting by a qualified transcriptionist; that said digital audio recording of said proceedings are a true and accurate record to the best of my knowledge, skills, and ability; that I am neither counsel for, related to, nor employed by any of the parties to the action in which this was taken; and, further, that I am not a relative or employee of any counsel or attorney employed by the parties hereto, nor financially or otherwise int<sup>e</sup>  this action.

*Carla Flair*

CARLO FLORIO

Notary Public in and for the

State of Delaware

1 CERTIFICATE OF TRANSCRIBER

2 I, CRYSTAL ORR, do hereby certify that this  
3 transcript was prepared from the digital audio  
4 recording of the foregoing proceeding, that said  
5 transcript is a true and accurate record of the  
6 proceedings to the best of my knowledge, skills, and  
7 ability; that I am neither counsel for, related to,  
8 nor employed by any of the parties to the action in  
9 which this was taken; and, further, that I am not a  
10 relative or employee of any counsel or attorney  
11 employed by the parties hereto, nor financially or  
12 otherwise interested in the outcome of this action.

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15 CRYSTAL ORR  
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# DELAWARE RULES OF CIVIL PROCEDURE

## Part V. Depositions and Discovery

## Title V, Rule 30

(e) Submission to witness; changes; signing. When the testimony is fully transcribed, the deposition shall be submitted to the witness for examination and shall be read to the witness, unless such examination and reading are waived by the witness and by the parties. Any changes in form or substance which the witness desires to make shall be entered upon the deposition by the officer with a statement of the reasons given by the witness for making them. The deposition shall then be signed by the witness, unless the parties by stipulation waive the signing or the witness is ill or cannot be found or refuses to sign. If the deposition is not signed by the witness within 30 days after the date when the reporter notifies the witness and counsel by mail of the availability for examination by the witness, the officer shall sign it and state on the record the fact of the waiver or of the illness or absence of the witness or the fact of the refusal to sign together with the reason, if any, given therefor; and the deposition may then be

1           used as fully as though signed, unless on a motion  
2           to suppress under Rule 32(d) the Court holds that  
3           the reasons given for the refusal to sign require  
4           rejection of the deposition in whole or in part.

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10          DISCLAIMER: THE FOREGOING CIVIL PROCEDURE RULES  
11          ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.  
12          THE ABOVE RULES ARE CURRENT AS OF APRIL 1,  
13          2019. PLEASE REFER TO THE APPLICABLE STATE RULES  
14          OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

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VERITEXT LEGAL SOLUTIONS

COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

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