IN THE MATTER OF MEETING NO. 1091

STENOGRAPHIC REPORT OF PROCEEDINGS had at the videoconference meeting of the above-entitled matter, held at 20 South Clark Street, Suite 300, in the City of Chicago, County of Cook, State of Illinois, on October 20, 2021, commencing at the hour of 8:30 a.m.

## APPEARANCES

BOARD MEMBERS:

DANIEL FORTUNA, President and Annuitant Trustee

ROBERT TEBBENS, Active Trustee
WILLIAM MURPHY, Secretary and Active Trustee
TIMOTHY MCPHILLIPS, Active Trustee
MELISSA CONYEARS-ERVIN, City Treasurer
ANNA VALENCIA, City Clerk
RESHMA SONI, City Comptroller
MARY SHERIDAN, Active Trustee
ATTORNEYS FOR THE BOARD:
BURKE, BURNS AND PINELLI, LTD.
BY: MS. MARY PATRICIA BURNS MR. VINCENT PINELLI

ALSO PRESENT:
KELLY WELLER, Executive Director
LORI LUND, Deputy Executive Director
LORNA SCOTT, Chief Investment Officer JACLYN VLAHOS, Comptroller JOHN CONNESS, Fund Accountant MARK MYSLINSKI, City Treasurer's Office MICHAEL I. PETERS, M.D., Board Physician

CHAIRMAN FORTUNA: Public Act 01-0640
allows this meeting to be conducted by audio and videoconference. The Act requires a roll call vote on each matter.

Further consistent with Public Act 101-0640, for the record, I am physically present at the Fund's office as is Board Secretary and the Executive Director. We have posted a notice of this meeting in accordance with the Open Meetings Act and the meeting is being recorded. A transcript of this proceeding will be prepared and ultimately, after approval, will be made available on the Fund's website.

Moving into Public Comment. Consistent with Public Act 91-0715 and reasonable constraints determined by the Board of Trustees, at each regular meeting of the Board and its committees that is open to the public, members of the public may request a brief time to address the Board on relevant matters within its jurisdiction.

Are there any requests for public comment today?

Hearing none, we will move on.
MR. WELLER: Mr. President, if there are
people who would like to speak, they need to hit star 6 to be unmuted. We will wait another second or two.

CHAIRMAN FORTUNA: Hearing none, we will move on.

MEMBER MURPHY: Thank you, Mr. President.
First I am going to turn to the approval of Administrative Items. Approval of the Minutes. Regular audio meetings of September 15, 2021, open and closed minutes. Regular audio meeting transcript September 15, 2021. The Executive Director Search Committee audio meeting and transcript April 8, 2021, open and closed minutes.

I would like to make a motion to approve the open minutes, the audio transcript, and the closed session minutes for the September 15, 2021 board meeting and the April 8, 2021 Executive Director Search Committee meeting.

CHAIRMAN FORTUNA: Before we take that into consideration, we are going to have a quick roll call. I know people have not called in or I don't see some of our Trustees on video. Let's just quickly run through the attendance here.

MS. BURNS: Trustee Valencia.

MEMBER VALENCIA: Here.
MS. BURNS: Trustee Tebbens.
MEMBER TEBBENS: Here.
MS. BURNS: Trustee Sheridan.
TRUSTEE SHERIDAN: I am here.
MS. BURNS: Trustee Soni.
Trustee Conyears-Ervin.
MEMBER CONYEARS-ERVIN: Here.
MS. BURNS: Trustee McPhillips.
MEMBER MCPHILLIPS: Here.
MS. BURNS: Trustee Murphy.
MEMBER MURPHY: Here.
MS. BURNS: Trustee Fortuna.
CHAIRMAN FORTUNA: Here.
MS. BURNS: Sir, you have a quorum.
CHAIRMAN FORTUNA: Secretary Murphy, please, go ahead.

MS. BURNS: You had a motion on the table for the minutes.

CHAIRMAN FORTUNA: There is a motion. Is there a second?

MEMBER VALENCIA: Second.
CHAIRMAN FORTUNA: There is a motion by Trustee Murphy. Seconded by Trustee Valencia.

Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee
Conyears-Ervin.
MEMBER CONYEARS-ERVIN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MEMBER MURPHY: The next item on the agenda is the semi-annual review of the closed session minutes as required by Section 2.06 of the Open Meetings Act.

Based on the recommendations of Fund counsel, I make a motion to keep open the closed minutes and keep the remainder of the closed minutes closed, as set forth in the memo to the Board from counsel dated October 20, 2021.

MEMBER SHERIDAN: Second.
CHAIRMAN FORTUNA: There is a motion by Trustee Murphy. Seconded by Trustee Sheridan.

Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee

Conyears-Ervin.
MEMBER CONYEARS-ERVIN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MEMBER MURPHY: Moving on to B, I'd like to make a motion to approve the Minimum Formula Annuities starting with Member 15550 and ending with Member 11788.

MEMBER CONYEARS-ERVIN: Second.
$\square$
CHAIRMAN FORTUNA: There is a motion by
Trustee Murphy. Seconded by Trustee
Conyears-Ervin.
Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee
Conyears-Ervin.
MEMBER CONYEARS-ERVIN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MEMBER MURPHY: Moving on to C, I'd like to approve the Widow Annuities starting with Member 10079 through Member 09399 .

MEMBER TEBBENS: Second.
CHAIRMAN FORTUNA: There is a motion by Trustee Murphy. Seconded by Trustee Tebbens.

Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee
Conyears-Ervin.
MEMBER CONYEARS-ERVIN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MEMBER MURPHY: Moving on to D, Refunds of Contribution. I would like to make a motion to approve Refunds starting with Member 14191 through Member 20114.

MEMBER VALENCIA: Second.
CHAIRMAN FORTUNA: There is a motion by Trustee Murphy. Seconded by Trustee Valencia.

Trustee Murphy.
MEMBER MURPHY: Yes.

CHAIRMAN FORTUNA: Trustee Sheridan. MEMBER SHERIDAN: Yes.

CHAIRMAN FORTUNA: Trustee
Conyears-Ervin.
MEMBER CONYEARS-ERVIN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MEMBER MURPHY: Item E, Death Benefits.
I would like to make a motion to approve the Death
Benefits for Member 100079 through Member 12033.
MEMBER MCPHILLIPS: Second.
CHAIRMAN FORTUNA: There is a motion by
Trustee Murphy. Seconded by Trustee McPhillips.
Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee

Conyears-Ervin.
MEMBER CONYEARS-ERVIN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MEMBER MURPHY: Under F, Partial
Payments. I would like to make a motion to approve the Partial Payments beginning with Member 10079 and continuing through Member 06622 .

MEMBER MCPHILLIPS: Second.
CHAIRMAN FORTUNA: There is a motion by
Trustee Murphy. Seconded by Trustee McPhillips. Trustee Murphy.

MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee
Conyears-Ervin.
MEMBER CONYEARS-ERVIN: Yes.

CHAIRMAN FORTUNA: Trustee McPhillips. MEMBER MCPHILLIPS: Yes. CHAIRMAN FORTUNA: Trustee Tebbens. MEMBER TEBBENS: Yes.

CHAIRMAN FORTUNA: Trustee Valencia.

MEMBER VALENCIA: Yes.

CHAIRMAN FORTUNA: And $I$ am a yes.

Motion carries.

MEMBER MURPHY: Under G, there are no Benefit Recalculations this month.

Under $H$, there are no Requests For Permission this month.

Moving to I, Removals. I'd like to make
a motion to approve the Removals starting with
Kevin Barry and ending with Nicholas Inguanti.
MEMBER SHERIDAN: Second.

CHAIRMAN FORTUNA: Motion by Trustee
Murphy. Seconded by Trustee Sheridan.
Trustee Murphy.
MEMBER MURPHY: Yes.

CHAIRMAN FORTUNA: Trustee Sheridan.

MEMBER SHERIDAN: Yes.

CHAIRMAN FORTUNA: Trustee Conyears-Ervin.

MEMBER CONYEARS-ERVIN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MEMBER MURPHY: Moving on to Section 3,
the Administrative and Court Orders. I'd like to
move that the Administrative and Court Orders listed in the docket for Members 011126, 011335 and 014191 be approved, based on staff's representation that the required paperwork is in order.

MEMBER CONYEARS-ERVIN: Second.
CHAIRMAN FORTUNA: There is a motion by
Trustee Murphy. Seconded by Trustee Conyears-Ervin.

Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee

Conyears-Ervin.
MEMBER CONYEARS-ERVIN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MEMBER MURPHY: Moving on to disability applications. Our first application, we have Firefighter Tuggle.

MR. PINELLI: Mr. Tuggle, are you on the line?

MR. TUGGLE: Yes. Present.
MR. PINELLI: You can hear us and we can hear you, correct?

MR. TUGGLE: Correct.
MR. PINELLI: Let the record reflect this is the hearing on the application for the Line of Duty Disability benefit being made by Firefighter Johnny Tuggle.

Good morning, Mr. Tuggle. As you have
been told, $I$ am one of the attorneys for the Pension Fund. I will be conducting this hearing for the record.

I'd like to advise you of some
preliminary matters before we start the evidence on your application.

First of all, there is a quorum of
members of the retirement board present, that is at least five members. From the roll call it sounds like there is currently seven members on the line at this time.

If you don't know you should know, you need the yes vote or affirmative vote of at least five of the those Trustees in order to receive this benefit per the Pension Code. Do you understand that?

MR. TUGGLE: Yes.
MR. PINELLI: I also see from the record that you do not have an attorney that filed an appearance on your behalf. Is it your desire to proceed with this hearing without an attorney?

MR. TUGGLE: Yes.
MR. PINELLI: Lastly, if you don't know you should know that it is the applicant's burden
of proof to present sufficient evidence to the Board in order for the Board to grant the benefit that the applicant is seeking. Do you understand as the applicant it is your burden of proof to present sufficient evidence to the Board?

MR. TUGGLE: Yes.

MR. PINELLI: By way of procedures, $I$ am going to start by asking you some questions under oath. The Board Members may or may not have questions of you. Then $I$ will call some other witnesses to testify, including the Board's physician consultant, Dr. Peters, as well as another member of the Fire Department that $I$ believe is also present.

If there is anything $I$ don't ask those witnesses in my questions that you think is important for the Board to know, please let me know and you would be given that opportunity to ask them any additional questions. Do you understand the procedures?

MR. TUGGLE: Yes. Let me make that clear, you said if $I$ need to ask any questions that wasn't asked at that time $I$ would say $I$ have something to say?

MR. PINELLI: Yes, sir, that is correct. When $I$ am finished and the Board is finished asking questions, if you wish to ask additional questions, just let me know and then you will be given an opportunity.

MR. TUGGLE: Okay.
MR. PINELLI: Then we are ready to proceed. Is Dr. Peters on the line as well?

DOCTOR PETERS: Yes.
MR. PINELLI: Doctor Peters and
Firefighter Tuggle, could you both raise your right hands?
(Witnesses sworn.)

JOHNNY TUGGLE
a witness herein, having been first duly sworn, was examined and testified as follows:

EXAMINATION
BY MR. PINELLI:

Q Sir, for the record, would you please state your name and spell your last name?

A Johnny Tuggle. My last name is T-u-g-g-l-e.

Q Mr. Tuggle, what is your rank with the Fire Department?

A Firefighter EMT, First Responder.
Q What was your last assignment before you went on layup?

A Engine 60.
Q Sir, you should have been provided a copy of Board Exhibits 1 through 13 before this hearing date. Did you receive such exhibits?

A Yes, I received those exhibits.
Q Did you have an opportunity to review them?

A Yes, I reviewed them.

Q Do you have any objection to their admission into the record for the Trustees to consider as part of your application?

A No.
MR. PINELLI: Thank you.
Mr. Chairman, I would move for admission of Board Exhibits 1 through 13, without objection from the applicant.

CHAIRMAN FORTUNA: Admitted without objection.

MR. PINELLI: Thank you.
(Board Exhibits 1 through 13 were admitted into evidence.)

BY MR. PINELLI:
Q Finally, Mr. Tuggle, did you have any additional exhibits that you wanted to present to the Board, other than those Board Exhibits?

A Only exhibit $I$ have, $I$ wasn't sure if they were going to be in touch with the Captain for a witness so $I$ end up getting a record of the journal, the company journal, where he wrote his statement down on so $I$ didn't know.

Q We do have a copy of the 160 so when we get to his testimony we will explore that further if necessary, okay?

A Okay.
Q Now, sir, let's start with your application that you filed with the Board under oath. You are seeking this disability based upon an injury that you say you sustained on August 10th of 2020; is that correct?

A That is correct.
Q Understanding that the Board has your written statement, could you please just briefly describe for them where you were and what caused you the injury that you are claiming as the basis of your application?
A At the time that this -- that I went on
layup from the Fire Department, I was at Engine 60,
and that was on August 10,2020 . I was at Engine
60 . And you asked me to explain what happened,
right, that is correct?

Q Yes, sir, please, if you would.
A At that time -- during the course of our day, when $I$ come into work, normally at a certain time of day, at 0800 we have a mask drill.

During that mask drill, all the members take the harness with the oxygen off the rig and we set it up so we can inspect the rig to make sure it is working properly so when we catch a fire we make sure the tank is working properly and we're ready for work.

After we did the mask drill, I pulled the tank off my back to set it down to readjust my straps so $I$ could put the tank back on the rig. The rig is the engine.

Once I lifted it up off the floor and I reached it up over my head to put it back on the rack inside the rig, that is when $I$ felt a pain, sharp pain, in my back.

So $I$ went to sit down in front of the rig
and the Captain asked me what happened. At that time $I$ explained to him that $I$ felt a sharp pain in my back and it was going down my leg. He asked did I want to go to the hospital in the ambulance and I said yes.

At that time Ambulance 38 I think -yeah, Ambulance 38 took me to Rush Hospital I believe.

Q Now could you just tell us for the record the name of the Captain that you spoke to?

A Captain Crowley.
Q Now was he your normal -- strike that.
You were assigned to Engine 60 for how long before this incident?

A How long before that incident? Like how many years was $I$ at Engine 60?

Q Yes, sir.
A Engine 60 is my regular house so I am not sure how long because I switched houses so many times. I want to say $I$ was at 60 for $I$ think at least two years. I was at a different engine company before that. I want to say at least two years.

Q During that two years was Captain Crowley


#### Abstract

always your captain or was he just your captain on that day?


A On that particular day, Captain Crowley was in there for my lieutenant, Lieutenant Brandon. At the time Captain Crowley was working for my lieutenant. Normally Captain Crowley is on $I$ want to say the second shift. So I worked the first shift.

Q So I understand, the first shift, what are the hours of the first shift? In other words, when do you start the first shift or when did you start the first shift, what time?

A The Fire Department work three different shifts; one, two, three. All shifts begin at seven o'clock. From seven to seven in the morning. So the shift starts at seven o'clock in the morning until seven in the morning next day.

Q Thank you. You injured your lower back as you just described, correct?

A That is correct.

Q Can you just for the benefit of those of us who don't know the tank you are referring to that is an air tank; is that correct?

A That is correct. That is an air tank
that is connected to a harness.
Q Just ballpark, how much does that weigh, do you know?

A About a 50 -pound tank. About 50 -pound tank not including the harness.

Q Were you lifting the harness and the tank at the same time or just the tank?

A That is correct. The tank is placed inside the harness so you can wear the tank on your back. Yes, $I$ was lifting the harness and the tank at the same time.

Q Any idea what the harness weighs?
A The harness I'd have to say maybe 20 pounds, maybe.

Q Thank you. Now this back injury -- prior to this date, you had injuries to your lower back before; isn't that correct?

A Yes. Back in 2017.

Q The records indicate in March of 2017 you laid up for a lower back injury, right?

A Right. That is what the doctor told me, it was a lower back injury. I told him I thought it was the piriformis muscle. He said that is related so it is technically a back injury so yes.
$Q$ Now that back injury that you had in
2017, was that the first time you ever had an
injury to your lower back?

A Yeah, that was the first time back in 2017, that was the first time $I$ had a lower back injury.

Q How did that injury occur? What caused you that injury?

A Back then at that time, when $I$ woke up that morning, which is stated in my Board Exhibit pack. I said that $I$ woke up to Doctor Cheng. When I went to see him, I stated that $I$ woke up that morning with a back pain. I woke up that morning and $I$ went to work with pain. My lieutenant at the time looked at me. He asked me was I okay and did I want to go on layup. I said, no, I will be fine.

I worked the whole day, my whole 24
hours, in pain that day and after that day the next morning $I$ went to the emergency room and once $I$ left -- the emergency room gave me Toradol shot and I ended up seeing Doctor Cheng for another visit.

Doctor Cheng, after he saw me, he examined me, and that is when he told me that it wasn't my piriformis muscle. He told me that it
was the lower back issue and he asked me did I play any sports. At that time, I said, well, I compete in Brazilian Jiu Jitsu but that is not how this happened. I told you I woke up this morning like that. And then after he further examined my back, that is when he told me it was probably sciatica.

But then he sent for $a \operatorname{MRI}$ and on my next visit and he looked at the MRI, he said it wasn't a herniated disc. He said my vertebral height and the disk space was preserved and I didn't have any stenosis.

So he asked me did I want a steroid shot. I said, no. Can I do chiropractic therapy? Do you have a suggestion for that? And that is when $I$ ended up going to the chiropractor and that is when I started seeing Dr. Knox for chiropractic therapy.

She did this traction therapy on my back, along with stretching and flexion. I didn't have any steroid shots back then. I didn't have any pain management back then. I just did regular chiropractic therapy. Four months later $I$ was back at work.

Q A couple of followup questions, if I might. With respect to the Brazilian Jiu Jitsu,
that is a contact sport; is that correct?
A No, that is more like -- it is -- it's more like wrestling. Where you manipulate different body parts so it is not like kicking and punching. None of that. No flipping or tossing. It is pretty much like wrestling.

Q How long had you been engaging in that prior to March of 2017?

A At that time it was like five years.
Q How regularly would you engage in it? In other words, was it something you did every week, a couple of times a week? How often would you engage in it?

A I did that three times a week. The other times I was at work so I did it three times a week.

Q Was it a competitive sport? Did you compete in tournaments and things like that?

A Yes. I stated that to Dr. Cheng at the time. I told him I competed in Brazilian Jiu Jitsu.

Q When you started it five years before 2017, so around 2012 approximately, until the date of this March 2017 injury, did you ever injure your back engaging in Jiu Jitsu?

A During the year of 2017, 2012 to 2017, did $I$ ever injure my back?

Q Doing Jiu Jitsu, correct.
A No, I have never had a back injury doing Jiu Jitsu. All of my injuries as stated in this exhibit pamphlet shows all of my injuries that $I$ sustained doing my Jiu Jitsu I had two triceps injuries. I had a shoulder injury. I had a knee injury. Other than that, $I$ have never hurt my back doing Jiu Jitsu.

Q Now, so you mentioned that you went through some conservative treatment in 2017 and you were able to return to work approximately in May of 2017; is that correct?

A That is correct. April, May, yeah, that is correct.

Q Then we get into 2018, you had a shoulder injury; is that correct?

A That is correct. That was from the Brazilian Jiu Jitsu incident, I had a shoulder injury.

Q But no part of that incident was a back injury, is that correct, or not?

A No, that was strictly a shoulder injury.

Q All right. Then you went back to work after that and you continued to work. Did you lay up at any time after 2018 and before this incident you have testified to on August the 10 th of 2020 ?

A No. After my shoulder injury, and I returned to work, that was that shoulder injury. After that shoulder injury, the only other incident that came up was the incident involving this present back injury.

Q The records indicated that you went to Rush Oak Park Hospital on August the 8 th of 2020, which was two days before this August the 10 th incident. Is that accurate, that you did go to Rush?

A That is correct.

Q The reason you went to Rush, according to the records from Rush, is that you were having lower back pain that was radiating down your right leg; is that correct?

A That is correct. I went there on August the 8 th for that reason.

Q And when you went there on August the 8th, did you report to the emergency room that the pain had started the night before while you were on

```
shift, so that would have been 8-7; is that
correct?
```

A That is correct. I told them that I did it at work on the 7 th.

Q Yes. But you also told them it was not a result of a specific incident or injury on the 7 th, correct?

A Say that again.
Q You also told the emergency room that the pain in your back that started on the 7 th was not the result of a duty incident, correct?

A Right. Yeah, I told them it wasn't a result of a duty injury, that is correct. I told them it happened when $I$ was going up the stairs later that night at eight o'clock.

Q So then you arrived at the hospital, Rush Oak Park, at 6:30 or so in the morning the day after your shift; is that correct?

A That is correct. I finished my shift out and that morning $I$ got up and I made it to my car and I realized that $I$ needed to go to the emergency room because the over-the-counter medications I had been taking at work, I took -- I iced it. It didn't seem to get better so I drove myself to the
emergency room on the 8 th.
Q Was the 8 th a workday? Were you supposed to be working that day or not?

A No, the 7th was the workday so I was off on the 8 th.

Q Would you have been off on the 9 th as well then, too? So your next regular shift would have been the 10 th, correct?

A That is correct.

Q So you drove yourself on your off day at 6:30 in the morning to Rush for treatment for lower back pain, which you just described, and they gave you some medications and so forth for it; is that correct?

A Yes, they gave me a Toradol shot. They gave me a prednisone patch. They gave me a lidocaine patch and they gave me some kind of medication and they released me to go back to work.

Q So then you did go back to work on the 10 th and according to your testimony your shift would have started at seven o'clock on the 10 th; is that correct?

A It starts at seven o'clock but most firemen come to work at six o'clock in the morning
so I made it to work at six o'clock in the morning.
Q Then this mask drill that you engaged in, that was at about eight o'clock or so, correct?

A That is correct, that is the 0800 mask drill.

Q Between the time you arrived at the station until this mask drill, did you have any calls that you went on or were you in the station the whole time?

A No. During that time $I$ was in the station. When we come to work, we eat breakfast as firefighters. So we eat breakfast. After breakfast we generally have roll call.

Q You didn't have any calls you went on before this incident, correct?

A No. No. That is correct.
Q Just a few more questions here. Was anybody else present at the time that you were lifting the tank that you saw? Fire personnel that were around you when you were lifting the tank, that actually saw you lifting the tank.

A Well, one of the guys that is on the engine with me, Firefighter Peoples, was there that day. So all the members were there present. But
at that time $I$ was standing next to Firefighter -I think Firefighter Peoples was on-duty. So he -I am not sure if he was actually looking at me when it happened but when $I$ made a noise, like ah my back, that is when he asked me and the captain asked me what just happened and then $I$ told them. So I can't say positively he saw me but he was definitely there standing next to me.

Q Thank you. Now with respect to that emergency room visit on August the 8 th of 2020, the Fire Department Medical Section records do not refer to that. Did you not tell them about that?

A At that time you mean on the -- I don't understand. I didn't tell them about that when? I told them about -- they asked me for those records at some point in time. They asked me -- they asked me did I go to the emergency room on that day. I say, yeah, and they said we don't have those records. That is when $I$ went out there to the hospital where $I$ went and I retrieved those records and I sent them off to them because they didn't have them.

Q So you eventually got them the records from that emergency room visit; is that correct?

A That is correct. I went out on my own. I went and got the records and then $I$ faxed them back to the lady that was in charge of the records.

Q Now, sir, you were interviewed by Dr. Peters, who is the Fund's consultant, the Fund's doctor, right, a month or so ago?

A That is correct.

Q He asked you all about your treatment history; is that correct?

A That is correct.
Q When he interviewed you, did you tell him in that interview about the August 8th emergency room visit or not?

A I don't recall telling him anything about that visit because when he called me he said he was about to ask me a series of questions about my injury and we proceeded from there so I don't recall talking about August 8 th.

Q Could you just tell the Board briefly in your own words what is the current condition of your back with respect to any limitations or pain that you are experiencing now?

A Currently -- since $I$ had that conversation with Doctor Peters, at the time I told
him that my pain was only in my right side butt and I think I recall telling him it was starting to travel to the left side. Now currently my pain is in both sides of my butt. It is a nerve pain in my butt and that nerve pain is such a pain where $I$ can't sit for long periods of time. I can walk better than $I$ can sit but walking is like limited. At a certain while $I$ have to sit down and rest, if I am doing any kind of work around the house. Like outside in the garden or a lot of bending up and down, then $I$ start aggravating the nerve pain in my butt. Mostly it is the nerve pain in my butt. My back pain is more often when $I$ am sitting in a chair too long.

So I am constantly moving around in the house, different couches, different chairs. Moving up and down. So my pain is still at a level where if $I$ am sitting more than five minutes, $I$ am uncomfortable.

If I'm driving longer than 15,20 minutes, I am uncomfortable. I am still having that same nerve pain in my butt area. As far as my leg pain, it don't really run down my leg. It is just persistent in my butt mostly and in my lower
back depending how long $I$ am sitting. So I am still dealing with that pain.

My sleep, I used to be able to lay down for a time but now $I$ have to lay in the bed for a little while and I get up. My sleep is totally off. I get -- at best $I$ will get three hours of sleep a night. I am in and out of my sleep all night long so $I$ don't get myself to sleep.

Ever since they took me off of the physical therapy -- my physical therapy was cutoff August 10th. They took me off payroll. My insurance lapsed. My physical therapy ended.

Now since $I$ haven't been doing any physical therapy, it was starting to get worse. I decided I need to do something to help myself.

I was doing weight training. What they call work conditioning at physical therapy. I was doing that before they stopped my physical therapy.

So my weight training in physical therapy I was doing squats, lunges, dead lifts, lifting things over my head. I was doing things that was required of me to do at work in physical therapy so I was doing work therapy.

I was doing a lot of things at therapy
that $I$ would be doing at work. They had me going up the ladder with my sledge hammer. They had me walking around with heavy things in my hands. I was doing all these things at physical therapy, that was a regular schedule for me.

Once that ended, now here $I$ am stuck. I decided I needed to do something to help myself to get back to work, to get back to the way $I$ was, because my quality of life had been greatly diminished.

So at that time I decided I needed to find me a place where $I$ can resume my physical therapy. I sought out a place like 30 miles from my house so I could continue my physical therapy because the Fire Department cut me off. So I couldn't just sit around and wait for, what, this hearing and then start regressing back to a severe issue.

So I decided I had two options and another option was to find physical therapy. Do it on my own. And that is when $I$ found a facility that had the equipment $I$ needed and I continued my physical therapy.

Q Are you engaging in that now currently?

A Yes, $I$ have been going to physical
therapy. I have been doing my own physical
therapy. I waited for a couple of weeks after my physical therapy was cutoff because $I$ thought maybe it would start back up and it didn't. I was getting worse.

Currently, yes, $I$ do my physical therapy on my own.

Q What is the name of the location you attend for that?

A It is a LA Fitness in Evanston. I travel almost an hour, 30 miles, to get to that place, just so $I$ can help myself get back to normal.

Q Is that a program that is being run by a physical therapist or are you just working out on your own at that facility?

A No, that is -- $I$ workout. $I$ do all of the things $I$ was doing in physical therapy. They have all the machines that $I$ need, back machines, to help my back get better. Yes, that is what $I$ do, $I$ go to a gym that has the proper equipment.

Q Despite that physical therapy that you're doing, you're still experiencing these limitations that you just described?

A Yes. Whenever $I$ was doing the physical therapy, $I$ was always experiencing pain while $I$ was doing the physical therapy but $I$ still had to do what I needed to do to get back to work. Even though $I$ am doing the exercises in physical therapy then and now, it is still -- I still have pain but what happens is once $I$ finish my whole workout in physical therapy, and even now after some time, maybe a hour or so, then my adrenalin goes down and the pain is back to where it was. When $I$ am doing my physical therapy, my pain is not as bad.

Q Okay.
A So it still hurts a little bit.
Q Do you take medication for the pain when you do experience it?

A Yes, I take Gabapentin mixed with Naproxen. I was just doing the Gabapentin by itself until Dr. Fisher told me that $I$ needed to take the Naproxen because $I$ told him the Gabapentin wasn't working at the time. He said that $I$ needed to take Naproxen with it.

Once I started to take the Naproxen and the Gabapentin twice a day, then it started helping me to relieve some of the pain. I was able to
sleep a little bit better at night.
Q Okay. There's an indication in the records that Dr. Fisher recommended you have a radiofrequency ablation sometime. Did you undergo that or not yet?

A Are you talking about the shot?
Q No. You did have shots, I saw that, but he ordered what is called a radiofrequency ablation, which $I$ think is an electrical stimulation type procedure.

A Oh, no. No, he didn't order that. On my last visit with him, I had already had three shots with him. So my fourth visit we started talking about -- he asked me how $I$ was doing after the third shot. I told him it helped a little bit more. He said, oh, that is good. Well, since that helped -- what we will do, he said, we will do another shot, a fourth shot. I said a fourth shot? He said, yeah. If that don't work, he said, maybe we can look at some surgery. I said what kind of surgery? He said, you know, like burning the nerves or we can do a fusion. I asked him what was burning the nerves? Maybe that is what he was talking about but we never talked about actually
doing that on a particular day.
My next visit should have been a shot on August the 25 th. I never did get that shot because it wasn't approved. It would never have been approved because they took me off of payroll and I didn't have any more insurance so that means who was going to pay for that?

So I never did get that shot done that I was supposed to have. I didn't have no more insurance so.

Q I understand. Thank you. Finally, since you went on layup, have you engaged in any activities by which you earn income?

A Oh, no. Like another outside job?
Q Yes.
A No, I don't have any other jobs.
Q Have you engaged in any sporting
activities? I am not talking about physical therapy but $I$ am talking about Jiu Jitsu or any other sporting activities since you went on layup?

A No. No. My last time I even went to a Jiu Jitsu school was back in March of 2019. After that $I$ stopped my payments to that school so -- and I have actual records of when $I$ stopped my payments
to that school.
Actually, somebody called me sometime ago and asked me that very question and gave me any sports or Jiu Jitsu. And $I$ was kind of shocked that she used the word Jiu Jitsu because nobody would use that term unless they live in that world.

So I told her, I said, no, I used to be doing Jiu Jitsu but $I$ don't do that anymore.

MR. PINELLI: Thank you, sir. That is all the questions $I$ have. Now $I$ will turn it over to the Board.

CHAIRMAN FORTUNA: Trustees, any questions?

MEMBER MCPHILLIPS: No questions.
CHAIRMAN FORTUNA: Hearing none, Vince.
MR. PINELLI: Then $I$ think we are
supposed to have a witness who is available on the line. I am hoping Captain Crowley is on the line?

CAPTAIN CROWLEY: This is Doug Crowley.
MR. PINELLI: Thank you. Can you hear me, sir?

CAPTAIN CROWLEY: I sure can.
MR. PINELLI: Thank you, sir.
I am one of the attorneys for the Pension

Fund. I have a few questions for you.
CAPTAIN CROWLEY: What is your last name? MR. PINELLI: Vince Pinelli.

CAPTAIN CROWLEY: Thank you.
MR. PINELLI: Before we start your testimony, could you please raise your right hand? (Witness sworn.)

DOUGLAS CROWLEY
a witness herein, having been first duly sworn, was examined and testified as follows:

EXAMINATION
BY MR. PINELLI:
Q Could you just state your name for the record?

A My name is Douglas Crowley.
Q What is your current rank with the Fire Department?

A I am a captain.
Q What is your current assignment?
A My current assignment is Engine 60 on the second shift.

Q Directing your attention to August the 10th of 2020, do you recall if you were working at Engine 60 on that day?

A I was indeed.
Q Do you recall what shift you were working?

A The first shift.
Q Was that because you were filling in for somebody else?

A I don't exactly remember. I have the journal page on my phone, also, $I$ can toggle to it, that should give you a rationale of why Marlin wasn't normally there. It could have been something as simple as me working off shifts overtime or it could have been a trade but $I$ do not remember.

Q That is really not important. The point is simply that you were working the first shift so thank you for that.

Were you familiar with Firefighter Tuggle prior to that date?

A I knew Firefighter Tuggle was assigned to the first shift prior to that day.

Q Had you ever worked with him on a shift before that day?

A I think I did once. I wouldn't remember the exact date and $I$ think $I$ would have been
working on the first shift again.
Q Okay. Back to August 10 th at or about sometime in the morning about eight o'clock or so, were you present when he reported an injury?

A I was indeed.

Q Can you tell the board members, to the best of your recollection, where you were and just what you recall about that?

A So at 0800 we do the mask drill, which is where every fireman tests to insure that their mask functions, the SCBA mask that provides ambient air to them in the event of a fire.

Typically when that is happening, $I$ am standing in a large circle at the front of the rigs on the south end of the firehouse facing the engine.

The reason for that is for supervision. It is for me to watch everyone doing the mask drill. See if any of the firemen have difficulty doing the motor skills of testing the mask out.

It is really to inject the plan of the day. That is where we talk about the housework schedule and anything else going on during the day so I would have been standing there.
$Q$ Okay. Did something occur or did he
bring something to your attention about his

A He did indeed. I can give you the exact language written in the journal.

Q Just so the record is clear, you have been provided with a copy of the journal from that day?

A No, I was not. I took it upon myself to drive to the firehouse and take a screenshot of the journal page for August 10 th.

Q You have that with you right now, that is what you are reading?

A I do indeed.

Q Thank you, sir. Go ahead.
A And the journal entry just states,
"During SCBA inspection, Firefighter Tuggle reported feeling a pop and sharp lower back pain while returning the $S C B A$ back to the brackets in the cab.

My next actions were to notify the OMEC
and Battalion and Ambulance 38 transported Firefighter Tuggle to Rush for further evaluation."

Q So, as you sit here today, you don't have
an independent recollection of actually seeing him lifting the tank. You just have a recollection of the report that he had been injured while doing it. Is that correct?

A That is correct. You know, you have to be on and off the brackets. I wouldn't witness every single fireman doing that. The cab doors would be open. I would be standing in a place where $I$ wouldn't have direct line of sight of that.

Q Okay, that's fine. Then Firefighter Tuggle testified to the approximate weight of the tank at about 50 pounds and the harness maybe another 20 pounds. Based on your experience, does that sound about accurate?

A I would say the harness and tank together weigh less than 45 pounds. But, you know, that is just from experience.

Q That is an approximation. I understand. Thank you.

He was transported by ambulance from there and I take it then you didn't see him back at work at any time after that; is that correct?

A No. I haven't seen him since, to be truthful.
$\square$
Q Do you recall seeing him at the time, though, that he was -- you know, right before he was placed in the ambulance or so forth? Did you talk to him I guess is a better question?

A I didn't have an extended conversation with him. Usually what happens is a lot of the guys they kind of show up between the hours of six and seven and then they have their own responsibilities.

Their first responsibility is actually to look at me and say, hey, I am here. I am ready to go. And then they have to take the other firefighters' gear off and install their gear on. Start to maintain an inventory of the rigs to make sure everything is there for service.

It wouldn't be like $I$ was having a meeting with him or any sort of extended conversation.

Q Right. My question, I'm sorry, it wasn't a good one. Directing you to after he had the incident and before he left in the ambulance, did you talk to him or observe him at all after the incident, that you remember?

A No.

MR. PINELLI: Okay. Thank you, sir, that is all the questions $I$ have. I will turn it over to the Board, if the Board has any questions.

CHAIRMAN FORTUNA: Trustees, any
questions?
MEMBER MCPHILLIPS: No questions.
CHAIRMAN FORTUNA: Thank you.
MR. PINELLI: Firefighter Tuggle, do you have any followup questions?

CAPTAIN CROWLEY: Gentlemen, $I$ am hanging up.

MR. PINELLI: Thank you, Captain. We appreciate your time.

MR. TUGGLE: Actually, I do have something.

MR. PINELLI: Unfortunately, $I$ think we just lost the captain.

MR. TUGGLE: He said he was hanging up.
MR. PINELLI: He is not on the line.
MR. TUGGLE: He said he was hanging up. He said he was leaving.

MR. PINELLI: Right. Okay.
MR. TUGGLE: I do actually have something to followup, something else to say.

MR. PINELLI: Hold on. I will give you that opportunity. Is this something you want to say about the incident, what occurred at that time?

MR. TUGGLE: Yeah, it's also surrounding the incident. You asked me did $I$ have something else to say or ask or something like that.

MR. PINELLI: Yes. Do you have something you would like to add?

MR. TUGGLE: I just have something to say about the whole -- you know, I guess it applies to the incident.

MR. PINELLI: Okay. Well, could you just hold that. Let me finish with the doctor and then I will give you that opportunity. Is that okay?

MR. TUGGLE: Right.
MR. PINELLI: Okay. At this time then $I$ would call Dr. Peters to testify.
(Witness previously sworn.)
MICHAEL I. PETERS, MED.
a witness herein, having been first duly sworn, was examined and testified as follows:

EXAMINATION
BY MR. PINELLI:
Q Sir, would you please state your name?

A Michael I. Peters.
Q You are a physician; is that correct?
A Yes, sir, that is correct.
Q Is a copy of your qualifications as a doctor attached to the board exhibits?

A Yes, it is.
Q Do you perform a function as a consultant to this fund?

A Yes, I do.
Q In that capacity, do you review medical records, examine or interview applicants and report to the Board?

A Yes, I do.

Q Did you follow that procedure with respect to Firefighter Tuggle?

A Yes.
Q Did you file a written report with the Board that is marked as Board Exhibit Number 2?

A Yes, I did.
Q Doctor, when you interviewed him -- is what you did an interview versus an exam?

A We did a phone interview because of the pandemic.

Q Right. When you interviewed him was the
information he provided to you complete and consistent with the medical records that you had in your possession at that time?

A It was all consistent, except for the part about the August 8, 2020 Rush Oak Park ED visit.

Q What was lacking with respect to that?
A There was no mention of the ED visit from Firefighter Tuggle. And when $I$ asked him about any back pain episodes since 2017 when he laid up until August 10 th of 2020 when he lifted his air pack he said no.

Q Okay. Doctor, you reviewed the medical records; is that right?

A Yes, I did.
Q And in those records, it indicates he's had two MRIs of his lower back. One was in 2017 after that layup for back pain, right?

A Yes. April 2017.
Q Right. And then he had one in September of '20 after the August '20 incident; is that correct?

A September 28, 2020, yes.
Q Now what did those MRIs show with respect
to the condition of his lower back?
A That from the levels of his lumbar spine between $L-3$ to $S-1$, he had mild to moderate impingement of nerve roots on the right side and mild impingement at a different level of his spinal cord.

Q Was there also a comment in there with respect to the differences between the two MRIs, if they showed any progression or differences from the '17 to the ' 20 MRI?

A There wasn't significant change.
Q How would you characterize the nature of those conditions in his back? In other words, are they degeneration? What are they indicative of?

A The time course of his first injury and the first MRI to his August 10 th reported injury and the second MRI a month later would suggest that this is a chronic degenerative condition.

Q That is causing him pain?
A Yes.

Q Now the incident he described on the 10th, removing the air tank and lifting it and so forth, is that an incident or is that conduct that could contribute to exacerbation of that
degenerative condition causing subsequent pain?
A I think lifting his air pack, removing his air pack from his back and swinging it up and putting it up on the bracket, is something that could flare an underlying condition. I don't think the air pack and the bracket weighed -- I don't think the tank and the bracket weighed 70 pounds. The captain didn't think it weighed 70 pounds. I don't think that weighs 70 pounds. I don't know the exact weight.

Could it flare an underlying condition, yes.

Q Regardless of the weight of it, just doing that movement with the weight, could that cause some kind of a flare-up in the degeneration?

A Yes.
Q Based upon your experience, would you expect that to be a permanent condition of acute pain or would you expect it to resolve?

A I think it's likely that could cause a flare. I don't think it's likely that it would cause a permanent pain condition or permanent radiating pain condition.

Q Did you find any evidence of any other
objective testing or evidence in the record that would explain the cause of his current pain, other than the degenerative condition you mentioned in his spine?

A No, I did not.
Q Is any doctor currently recommending surgical intervention for his back?

A Firefighter Tuggle mentioned that during his last visit the physician talked about the possibility of a radiofrequency ablation or possibly surgery but no specific plans or a specific surgical recommendation was made in the records that $I$ saw.

Q Now did you eventually obtain the records from the 8-8 emergency room visit that he had prior to this incident?

A Yes. Those records were provided to me after our phone interview.

Q Did you review them?
A Yes.

Q What if any indication did they have for you with respect to the condition of his lower back?

A Well, the history provided -- the history
that was recorded by the ED physician at Oak Park confirmed that there was a flare of low back pain two days before with radiation down the leg and possibly weakness of the right leg. Mentioning that the leg had given out. It suggested that the pain -- the flare had started two days before the 10th. Actually on the 7 th , the evening of the 7 th at work, without a specific duty mechanism of injury.

Q Now, based upon everything you reviewed, is it possible for you to reach an opinion to a reasonable degree of medical certainty whether the cause of his current pain to the extent he's reporting it is the result of the August 10,2020 incident or the natural progression of his degenerative condition in his back or something else?

A I don't think it's likely that the episode with the mechanism he described on August 10th of ' 20 would be causing essentially permanent or chronic low back pain, radicular symptoms. I don't think that is likely.

I think it's likely that it caused a flare. My expectation would be that would have
improved by now and $I$ don't think that it's likely that was an acute event to cause a big change in his underling degenerative problems. I think the problem is his underlying degenerative disk disease. I don't think it is likely that the air pack incident caused a permanent problem.

MR. PINELLI: Thank you, doctor, that is all the questions I have.

CHAIRMAN FORTUNA: Trustees, any
questions for Dr. Peters?
Hearing none, Vince.
MR. PINELLI: Mr. Tuggle, before Dr.
Peters leave the call, do you have any questions for him?

MR. TUGGLE: Yes, I have actually a couple of things to say about that day. He said he asked me a question about had I had any prior back incidences prior to August 10, 2020 other than 2017. At that time $I$ said, no, I didn't have any prior back incidence but at that time my mind was thinking my pain from that day. So my mind didn't go back to the 8 th $I$ am guessing because the 8 th when I was -- actually, the 7 th when it happened. The 7 th, when $I$ hurt my back and ended up going to
the emergency room that day, when it actually happened it was such a mundane situation and I ended up going to the emergency room. They gave me medicine for it and over the weekend I slept the whole weekend. I woke up fine, no pain, no aches, no nothing. So I didn't think to say, oh, yeah, by the way, you know, $I$ had a back injury on this day. I wasn't even thinking like that when he asked me that question. He asked did I have anything prior from August 10, 2020 to 2017. So my mind actually went all the way back to 2017 and $I$ was like no. So other than that 2017 event, $I$ wasn't even thinking at all and so they reminded me. Oh, the incident. I wasn't even thinking about that. It is not like $I$ was trying to purposely omit that situation that happened on the 8 th. I just wasn't thinking about that incident at all because my mind just went straight back to 2017.

Other than that, he said that -- he said a question about my vertebrae and as far as did it get worse from 2017 to 2020. And I think -- I think $I$ am pretty sure he said it was a progression. Because as it is stated Dr. Cheng, in Exhibit 9E.3, Dr. Cheng said the vertebral disk
space was preserved and I didn't have any stenosis. So that would show that further down the road in 2020 that there was a progression and Dr. Peters said it is not likely that it could be exacerbated -- I think it -- he said it is not likely that it could be permanent damage and it is not likely -he said it probably can flare-up is the word. It can flare-up. Flaring up is a matter of $I$ am guessing taking inflammatory drugs to make it go down. I have had numerous shots, strong shots, Toradol. I had three -- what do you call it -Prednisone Dosepaks and all this medicine.

He said a flare-up. I am pretty sure, according to the doctor, that you read this whole manual, $I$ don't know if he read the whole manual, but Dr. Fisher, my therapist, constantly wrote in this big packet that the pain level that $I$ was having was always at least an eight.

I don't know why he called it just a flare-up and it's likely that it didn't happen the way $I$ said it happened. You can sneeze and throw your back out. You can bend over and pick up a ten pound weight and throw your back out. These things happen.

As a firefighter, I have a very physically demanding job that requires for me to lift a lot of heavy weight. As a firefighter, we repeatedly put stress on our skeleton everyday. Accidents happen. Injuries happen. This is an occupational hazardous job.

That being said, this stress, all this weight on my skeleton, this stress can damage the spine over time.

To say it is hardly likely that this is a cause -- that this degenerative situation is like ongoing.

No, I have weight on my back every time I go to work. When you add age into that equation, you're bound to sustain some type of injuries during your career as a firefighter.

And actually studies say that a lot of -there is a lot of variables that can cause stenosis. Posture, weightbearing down on your skeleton and aging.

It sounded like he was possibly saying that it wasn't likely that $I$ hurt myself with the tank. He continued to say that. It doesn't matter the weight. People do a lot of things that hurt
their back just moving the wrong way and throwing their back out and end up having a pinched nerve.

My pain is severe to the point where I am on meds regularly. If you look at the paperwork, you can see the problem. He said it is highly likely $I$ just have a flare-up. So I don't understand why he called it just a flare-up. That totally confused me because it is in the doctor's paperwork.

MR. PINELLI: I appreciate that. I
guess, Dr. Peters, do you wish to have any comment on that? It wasn't really a question. It was more a statement, which $I$ understand, and that's fine, Mr. Tuggle. The Board is listening.

Dr. Peters, do you have any response to that?

DOCTOR PETERS: I think that $I$ respect Firefighter Tuggle's pain complaint. I don't in any way intend to minimize the fact that he's reporting pain. But the question you are asking me is specifically related to whether the incident on August 10 th is likely to cause a permanent ongoing pain problem and my professional opinion is no.

Even though all of his physicians and the
physical therapists have documented pain levels, that is a subjective complaint. Not to say that he doesn't have pain but it is a subjective complaint. It is not an objective measure.

My opinion regarding degenerative disease is really based on the MRI findings, which $I$ consider to be objective.

So the question you asked is it likely that the August 10 th incident caused what he has now? I would say my opinion is that that is unlikely and that is why $I$ used the word flare.

I would expect lifting an air pack or lifting anything heavy could cause an exacerbation of an underlying back issue. Yes, $I$ think that can happen.

I don't think it's likely given his disease state that a year later he would still be having radiating pain, that was my opinion. I didn't mean to in any way say that he doesn't experience pain.

MR. PINELLI: Okay. Thank you, doctor.
Mr. Tuggle, you have made a lot of points to the Board and they will consider those. I think the evidence is concluded, unless you have
something further to present.
MR. TUGGLE: It sounded like to me it is of the opinion of a single doctor that that event didn't cause my situation. I don't understand why he is saying that it couldn't have caused my situation lifting that tank, that makes no sense to me, and he's throwing in the degenerative disease situation where everybody ages. Everybody's back degenerates over time.

I am 58 years old so $I$ don't understand. Does he really think at age 58 my bones is going to be the same as when $I$ was 20? Highly unlikely, that would never happen.

Everybody has this degenerative situation going on in their back. It is not fair to make like a thing $I$ have a degenerative problem that has been ongoing so that is probably the underlying problem. I don't think so.

The problem is $I$ went to work on that day doing my duties as a firefighter. Before that mask drill even took place, that officer, he had to check every individual and make sure that they are physically fit for duty, that is part of his job description. He checked us. He made sure
everybody was physically fit for duty. I was physically fit for duty until prior to that incident where I lifted that tank up.

According to Dr. Peters, that couldn't have happened lifting that tank up.

MR. PINELLI: I don't mean to cut you off, Firefighter Tuggle. Your point is well taken. The doctor has given his opinion, a medical opinion. He's not saying you weren't injured that day. He just can't give an opinion to a certainty that that injury, that incident, caused your current pain, that is all he is saying.

I think at this point you have made your point. It will be up to the Board to decide on the issue of causation. That is a Board decision, it is not the doctor's decision. It is the Board's decision to make after they hear all the evidence, including your testifying and your statements. Okay?

MR. TUGGLE: Right.
MR. PINELLI: Okay.
MS. BURNS: The record may reflect that Trustee Conyears-Ervin had to leave the hearing during the presentation.

MR. PINELLI: Okay.
MEMBER SONI: This is Trustee Soni. I was here at the beginning of the presentation.

MS. BURNS: Thank you, Trustee Soni.
MR. PINELLI: Nothing further. I believe
the evidence is concluded.
MEMBER MURPHY: I would like to make a
motion to go into executive session pursuant to Section 2(c) 4 of the Open Meetings Act.

CHAIRMAN FORTUNA: There is a motion by
Trustee Murphy to go into closed session.
MEMBER MCPHILLIPS: Second.
CHAIRMAN FORTUNA: Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee Soni.
MEMBER SONI: Yes.

CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.

CHAIRMAN FORTUNA: And I am a yes.
Motion carries.
We are now in closed session.
(Whereupon, the Board went into
Executive Session off the record.
No action was taken in Executive
Session.)
MEMBER MURPHY: I'd like to make a motion
to grant the benefits requested by Firefighter Tuggle.

MEMBER MCPHILLIPS: Second.
CHAIRMAN FORTUNA: There is a motion to
grant. Seconded by Trustee McPhillips.
Trustee Murphy.
MEMBER MURPHY: NO.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: No.
CHAIRMAN FORTUNA: Trustee Soni.

MEMBER SONI: No.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: No.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: I am a no.
CHAIRMAN FORTUNA: Trustee Valencia.

MEMBER VALENCIA: No.

CHAIRMAN FORTUNA: And $I$ am a no.

Motion carries.

MEMBER MURPHY: Mr. President, I'd like to make a motion to deny the benefits requested by Firefighter Toggle.

MEMBER MCPHILLIPS: Second.

CHAIRMAN FORTUNA: There is a motion to
deny by Trustee Murphy. Seconded by Trustee McPhillips.

Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee Soni.
MEMBER SONI: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.

CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.

Mr. Tuggle, sir, based on the evidence that we have heard and considered, the Trustees have voted to deny your benefit that you have requested. You will be notified by mail of the Findings of Fact and the Board's decision. Thank you.

MR. TUGGLE: Do $I$ have a chance to come back at another date with a lawyer?

MS. BURNS: No, sir. You had a right to have an attorney present for this hearing, and Vince asked you at the beginning, if it was your election to proceed without an attorney.

You do have the right to get an attorney and to appeal the Board's decision to the Circuit Court of Cook County. You need to do that within 35 days of being notified of the Board's decision, which you haven't gotten yet, so the clock hasn't started running.

We also are going to reach out to you after the meeting at the request of several of the Trustees on the board to explain to you other options as well, because you do have certain options under the Pension Code.

So you will be hearing from staff and
from Vince Pinelli after this meeting and we can give you more detail so that you can take whatever action you deem is in your best interest.

Thank you, sir.
MEMBER MCPHILLIPS: Mary Pat, thank you for explaining that to him. I thought you did a good job.

MS. BURNS: Thank you, sir. We'll make sure we followup.

MEMBER MURPHY: Mr. President, your next applicant is Firefighter EMT Michael Lopez, if he is available.

CHAIRMAN FORTUNA: Michael Lopez.
MR. LOPEZ: Yes, sir.
MR. PINELLI: Good morning, Mr. Lopez.
I am one of the attorneys for the Pension
Fund. I would like to advise you of some preliminary matters before we begin evidence.

First of all, for the record, this is an application by Mr. Lopez for an Ordinary Disability benefit being made on today's date.

Mr. Lopez, there are currently seven trustees present to hear the evidence on your application. If you don't know you should know you
need the yes vote of at least five of those

Trustees in order to receive this benefit. Do you understand that?

MR. LOPEZ: Yes, I do.

MR. PINELLI: The record seems to
indicate that you do not have an attorney representing you. Is it your desire to proceed to today's hearing without an attorney?

MR. LOPEZ: Yes, it is.

MR. PINELLI: Lastly, it is the applicant's burden of proof to present sufficient evidence to the Board in order for the Board to grant the benefit that the applicant is seeking. Do you understand it is your burden of proof?

MR. LOPEZ: Yes, I do.

MR. PINELLI: Then by way of procedures, I am going to start by asking you some questions under oath. The board members may or may not have questions of you. Then $I$ will proceed to call the Fund's physician consultand Dr. Peters. If there is anything $I$ don't ask him that you think is important for the Board to know, please let me know and you will be given that opportunity. Do you understand the procedures?

MR. LOPEZ: Yes, I do.
MR. PINELLI: Okay. Then is Dr. Peters on the line?

DOCTOR PETERS: Yes.
MR. PINELLI: Thank you. Mr. Lopez and Dr. Peters, could you both please raise your right hands?
(Witnesses sworn.)
MICHAEL LOPEZ
a witness herein, having been first duly sworn, was examined and testified as follows:

EXAMINATION
BY MR. PINELLI:
Q Mr. Lopez, what is your current rank with the Fire Department?

A Firefighter EMT.
Q What was your last assignment before you went on layup?

A My last assignment was at headquarters at the Division of Safety.

Q Prior to today's date, did you receive a copy of the exhibits from the Board staff?

A I did. I am looking at it right now.
Q Did you have the opportunity to review
them?
A I did.
Q Do you have any objection to their admission into the record?

A No, I do not. I lived through it. I remember it. I do not deny anything in these pages.

MR. PINELLI: Very good, thank you.
Mr. Chairman, I move for admission of
Board Exhibits 1 through 11 without objection from the applicant.

CHAIRMAN FORTUNA: Admitted without objection.
(Board Exhibits 1 through 11 were admitted into evidence.)

BY MR. PINELLI:
Q Sir, you entered service with the Fire Department in 2005?

A Correct.
Q You are currently experiencing some injuries that are preventing you from returning to work; is that correct?

A That is correct.
Q Just briefly describe, if you would, for
the members of the Board, what your current condition is with respect to any limitations and so forth that you are experiencing.

A I have a fracture of the fifth metatarsal of the left foot also known as a Jones fracture.

Q Did you develop that condition since you have been in service with the Fire Department?

A Well, yes. It is a fracture. It came about earlier this year sometime. It is a stress fracture.

In the discussion with Dr. Peters, I didn't really feel the actual injury occur so $I$ can't pinpoint a date. But the problem is at the present time it is preventing me from working.

Q Are you undergoing treatment for it?

A Yes, $I$ am. Actually, $I$ was in a boot for a while. I have been removed from the boot as the swelling has subsided. I went under swelling treatment, that includes wrapping it, wrap therapy, at Palos Hospital, twice a week, and $I$ have seen my doctor frequently. I have an appointment with Dr. Jim Geiger on Friday and $I$ have another appointment with the orthopedic doctor, on $I$ believe it is November 8th, Dr. Brian DeFrino.
$Q$ Since you went on layup for this injury, have you engaged in any activities by which you earn income?

A No, I have not.
Q Have you engaged in any sporting activities?

A No, I have not.
MR. PINELLI: Thank you. That is all the questions I have.

CHAIRMAN FORTUNA: Trustees, any questions?

Hearing none, Vince.
MR. PINELLI: Thank you. I would call Dr. Peters.
(Witness previously sworn.)
MICHAEL I. PETERS, M.D.
a witness herein, having been first duly sworn, was examined and testified as follows:

## EXAMINATION

BY MR. PINELLI:

Q Sir, please state your name.
A Michael I. Peters.
Q You're a physician; is that correct?
A Yes.

Q A copy of your qualifications are
attached to the Board Exhibits?

A Yes, it is.
Q You perform a function as a consultant to this fund?

A Yes, I do.
Q In that capacity, do you review medical records, examine applicants and report to the Board?

A Yes.
Q And in some instances you can't examine them due to the pandemic so do you interview them instead?

A Yes.
Q Did you follow that procedure with reflect to Mr . Lopez?

A Yes, I did.
Q Did you file a written report with the Board that is marked as Board Exhibit Number 2?

A Yes.

Q Was the information that he provided to you consistent with the records that you reviewed?

A Yes, it was.
Q Can you briefly summarize for us the
current condition with respect to his left foot?
A Firefighter Lopez, because of long-standing diabetes, has peripheral vascular disease as well as neuropathy.

Because of the vascular disease, he has had amputations of his right great toe, the first toe, his left fourth toe which had a chronic ulcer requiring a plastic surgeon to put a skin flap. It eventually did heal after he had an angioplasty of an artery in his left leg.

From a neuropathy standpoint, the normal protective reflexes of when you walk to keep you from rolling a foot or adjusting your foot on an uneven surface doesn't exist anymore for him. Because of that, he had a total of three different fractures on his foot. Two metatarsal fractures in the middle and then a more serious Jones fracture, which is the fracture of the fifth metatarsal. It normally requires surgery because it doesn't heal otherwise. Because of his other coexisting problems with his diabetes, the vascular disease, the neuropathy, the surgery wasn't performed so that is an ongoing recovery for him.

Q Based upon those conditions, would he be
able to perform his duties in the Fire Department?
A No, he wouldn't.

MR. PINELLI: Thank you, doctor, that is all the questions $I$ have.

CHAIRMAN FORTUNA: Trustees, any
questions for the doctor?
MEMBER MCPHILLIPS: No questions.
CHAIRMAN FORTUNA: Hearing no questions, Vince.

MR. PINELLI: Thank you. Mr. Lopez, that concludes the evidence in this matter; is that correct?

MR. LOPEZ: Yes. I was just curious about a question for the doctor. Obviously, at this point in time, you know, I am precluded from working. But if as time goes on and the healing of the foot, you know, becomes complete, what are my options then would you say?

MR. PINELLI: That is really a determination for the Fire Department, Mr. Lopez.

MR. LOPEZ: Okay.
MR. PINELLI: If your foot gets to the point where you feel that you are ready to return to work, then you can reach out to the Fire

Department.
MR. LOPEZ: To make an attempt to -sorry to cut you off. At least an attempt, depending on how my doctor's feel and how $I$ feel. I am just curious. Thank you for your answer. I appreciate it.

MR. PINELLI: Nothing further.
MEMBER MURPHY: Mr. President, I'd like
to make a motion to grant the Ordinary Disability benefits requested by Firefighter EMT Lopez.

MEMBER MCPHILLIPS: Second.
CHAIRMAN FORTUNA: There is a motion to grant by Trustee Murphy. Seconded by Trustee McPhillips.

Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.

CHAIRMAN FORTUNA: Trustee Soni.
MEMBER SONI: Yes.

CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.

CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.

CHAIRMAN FORTUNA: Trustee Valencia. MEMBER VALENCIA: Yes. CHAIRMAN FORTUNA: And $I$ am a yes. Motion carries.

MEMBER MURPHY: Mr. President, I would like to make a motion for reexams consistent with the Board's policy.

MEMBER SHERIDAN: Second.
CHAIRMAN FORTUNA: Motion for reexam by
Trustee Murphy. Seconded by Trustee Sheridan. Trustee Murphy. MEMBER MURPHY: Yes.

CHAIRMAN FORTUNA: Trustee Sheridan. MEMBER SHERIDAN: Yes.

CHAIRMAN FORTUNA: Trustee Soni.
MEMBER SONI: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.

MEMBER MURPHY: Counsel has previously
sent around proposed Findings of Fact and
Conclusions of Law.
I would like to make a motion to adopt the Findings of Fact and the Conclusions of Law in this matter.

MEMBER TEBBENS: Second.
CHAIRMAN FORTUNA: Motion to adopt the Findings of Fact by Trustee Murphy. Seconded by Trustee Tebbens.

Mr. Lopez, can you hear me?
MR. LOPEZ: Yes, I can.
CHAIRMAN FORTUNA: Based on the Findings of Fact and Conclusions of Law made by the Trustees, the Trustees have voted to grant you the benefit you have requested.

You will be notified by mail of the Findings of Fact and the Board's decision.

Thank you and good luck to you. Come back.

MR. LOPEZ: Thank you, very much.
MEMBER TEBBENS: I just want to address something. I wanted to wait until after all the votes.
Can legal counsel advise Firefighter
Lopez, if you frame the question, pending the
approval of the Fire Department, how would this
Board view his status of pensionable service
credit?

Firefighter Lopez, is that something you want to know?

MR. LOPEZ: Yes, it is for sure.
MEMBER TEBBENS: Okay. If counsel can answer that question, please.

MS. BURNS: I don't know if you are
directing that question to Vince or to me? Is your question, Trustee Tebbens, whether or not Mr. Lopez will get service credit for the period of time that he is on Ordinary Disability?

MEMBER TEBBENS: Well, my question to counsel, or $I$ think what Firefighter Lopez was wondering and $I$ confirmed that with him, pending the approval of the Department to put him back in active status, how would that affect his relationship with the Pension Fund as far as service credits and pensionable credit?

MS. BURNS: I am not sure, again, that I
understand that question. But if $I$ understand it
correctly, the Board has just granted Firefighter Lopez an Ordinary Disability benefit. He will be able to receive that benefit based on his years of service, which $I$ believe he's got 16,17 years of service, so he will be entitled to up to five years of service credit if he remains disable, correct, Vince?

If at any point in time he goes back to work at the Fire Department, obviously, he will then start getting service credit from the Fire Department. He gets service credit while he is on Ordinary Disability.

When that expires, if he has not gone back to work with the Fire Department, and the Fire Department controls the decision as to whether or not Firefighter Lopez is fit for duty, in other words the Fire Department decides not to put him back, then he would be in a no service status.

MEMBER TEBBENS: Mary Pat, that is exactly what $I$ wanted you to inform him of.

MS. BURNS: Mr. Lopez, always feel free to call the Fund, if we can be of any help to answer any question that you have.

MR. LOPEZ: Absolutely. Thank you, very
much. That clears up the answers I was looking for.

Thank you, Mr. Tebbens. I appreciate stepping in on my behalf to clear up that question for me.

MEMBER TEBBENS: Not a problem. Always welcome.

MEMBER MCPHILLIPS: Good luck, Mike.
MR. LOPEZ: Thank you, very much. Have a good day to the rest of you ladies and gentlemen.

MEMBER MURPHY: Moving on to 5 , I would like to make a motion to approve the Board physician's recommendations for reviews.

MEMBER SONI: Second.
CHAIRMAN FORTUNA: There is a motion by Trustee Murphy. Seconded by Trustee Soni. Trustee Murphy. MEMBER MURPHY: Yes. CHAIRMAN FORTUNA: Trustee Sheridan. MEMBER SHERIDAN: Yes. CHAIRMAN FORTUNA: Trustee Soni. MEMBER SONI: Yes. CHAIRMAN FORTUNA: Trustee McPhillips. MEMBER MCPHILLIPS: Yes.

CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.

CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MEMBER MURPHY: Mr. President, on the Investment portion, $I$ would like to turn this over to Lorna.

MS. SCOTT: My plan today is to give all of the investment time on the agenda to Brady to discuss the preliminary results of the Asset Liability Study.

I am so pleased that there is enough time on this month's agenda so the whole board can be involved in this discussion.

The Asset Liability Study generally
happens every five years. So every five years we spend a little extra time on investments. It is a really important discussion as we review and set the portfolio for the years to come.

As Brady is sharing his screen, $I$ will just have a few comments on my report. My report is in BoardPac for your review. These are the
usual charts related to performance and attribution. As well as the quarterly reports on private market cash flows and security lending. If there is any questions on my report, please reach out.

Just to comment on performance, generally, September was rough. All of the asset classes were down, except for commodities. There is a lot of uncertainty in the market around inflation, supply chain, China.

In September, the Fund was down 2.4 percent and that was slightly behind the benchmark which was down 2.2 .

Year-to-date the returns remain strong so the Fund is up 10.5 percent year-to-date and it is outperforming the benchmark which is up 9.6 .

That is my report in a nutshell and now $I$ will turn it over to Brady.

MR. O'CONNELI: Thank you, Lorna.
I am joined today by my colleague Gary
Chang, who is in our Capital Markets Research Group.

The Board has seen specialists from Callan from time to time as we do some of these
projects that require a little more specialty expertise.

So Gary is in that group. That group does between 20 and 30 Asset Liability Studies a year.

I will take the next 20 minutes to walk the Board through a summary of that report. I may ask Gary to comment, if questions come up through the course of that.

I did want to begin the presentation by just reinforcing a point that Lorna made, which is the importance of asset allocation.

So of all the investment related decisions that this Board makes, determining the asset allocation setting, the long-term asset strategy, is the most important decision that you will make.

So you will note in the timeline that today we're presenting you with initial findings and considerations. We will have the opportunity to review and discuss those over the coming months. Early next year, we will ask the Board to officially adopt a new asset allocation strategy. We will incorporate that into the Board's Statement
of Investment Policy.

It is a very deliberate process that is going to require some time and that time simply reflects the importance of which we place on this decision and the opportunities that we want to give the Board to ask questions about this important decision.

So over the course of the next several minutes, we are going to talk about kind of two key decision points that $I$ am going to ask the Board to consider over these next months.

How much investment risk do we want to take? So we will look at how much risk we are taking now. We will look at how other public pension plans allocate their assets and we'll talk about how much assets the Board is comfortable with placing in illiquid investment strategies.

Right now the asset allocation strategy has the bulk of our assets in things that we can buy and sell on a daily basis like public stocks and bonds.

In 2017, we began the process of further diversifying the portfolio by adding to less liquid investment strategies like private equity and real
estate.
We have been able to ease into those allocations over the last several years as we have gotten comfort and transparency regarding the Fund's contributions. That is another critical element that we will walk through in this Asset Liability Study is evaluating the contributions that are coming into the plan now and what that means for the financial health of the plan going forward.

But kind of a spoiler alert, we do think, because the cash flow situation has improved considerably since we did this in 2015, that there is the possibility of adding more to less liquid assets and we think those asset classes have risk and return benefits that will improve the overall FABF portfolio.

With that introduction, let me just walk through a couple of these slides and the schematic is really met to illustrate what we are doing at a high level with the Asset Liability Study.

Most of the time when you hear us talking about investments, we're looking at the investment portfolio on its own separate from the liabilities,
separate from the funding mechanism.
When we do these reports, what we try to do is incorporate employee and employer contributions, the current benefit levels. So we get information from Segal, who is your actuary, to estimate current liabilities and model those into the future.

As Lorna mentioned, this is done typically on a five year basis. Sometimes we will recommend clients do it more frequently if there is a major change in any of these aspects. Either the funding policy or the benefit policy.

This is really why we do an Asset Liability Study to make this asset allocation decision but to do so with a thorough understanding of how cash comes into the plan and how it's being spent on benefits.

As $I$ mentioned earlier, we did get information from Segal. As part of this process, we cooperate with your actuary to get the liability data.

> If you look at the upper right-hand corner, this really has the critical information for the Board at this time at a high level.

For public pension plans, we often talk about a number called the funded status, which is the ratio of the assets that we have on-hand to pay benefits relative to the liabilities or a current estimate of the benefits that we need to pay into the future.

Right now, including receivables, our asset market value is about 1.3 billion. We owe the participants in the plan an estimated 6.6 billion.

So that means we have got about 20 cents on the dollar or a funded ratio of 20 percent.

I think when we did this in 2017 it was a little bit lower. It was somewhere around 17 or 18 percent. And as we will show on the coming slides, the contributions that are coming into the plan will improve the funded status but it is a very gradual process.

We shouldn't expect to see huge moves in the funded status of the plan without just this gradual improvement in contribution levels and having shifted to kind of a net positive cash flow position we need some time for that to accrue to the plan to see an improvement in funded status so
as our assets on-hand catch up with the liabilities that we need to pay.

This slide illustrates that phenomenon. The red or orange-ish line with dots is our projection of the plan's funded status over the next 20 years.

The blue line, the blue bars, represent the market value of assets and then we project a growth in the actuarial determined liability.

So that funded status again is that ratio of assets to liabilities. As you will see here, there is a very gradual funded status improvement. Based on Callan's numbers, we think we are going to improve to about 43 percent funded in the next 20 years.

So from a 20 percent funded status perspective, that is a very favorable move, more than doubling our funded status.

At the end of the next 20 years, that still means that we have only got 43 cents for every dollar of benefits that we owe.

As you will hear throughout the presentation, the critical component of this plan's health improving is these contributions from the

City and to a lesser extent the employees continuing to come in on a regular basis.

As we note here at the bottom of Page 5, the contribution level is determined to pay down the unfunded liability and pay for current benefits to reach a point of 90 percent funded by year end 2055.

It is kind of a long road that we're going to be on to get us to what is hopefully 90 percent funded on or around 2055. The improvements that we'll see will be very gradual over the coming decades.

I will pause there for a second and see if there are any questions.

MEMBER MCPHILLIPS: No questions. Good job, Brady.

MR. O'CONNELL: This is the next slide that $I$ think is pretty critical. Mostly to determining that second question that $I$ am going to ask the Board to consider, which is how much we can put in less liquid investments. So higher returning, less liquid investments, can help us achieve a better return for the amount of risk.

What this chart shows at the end of the
day is how much net cash we are paying out. And the overall takeaway is it does increase over time so the cash outflow is negative so that means we're getting money in now. We have got a positive cash flow.

Most pension plans are in a negative cash flow situation.

We will move again back into a negative cash flow situation but it never gets to the point where it is huge. Based on this illustration, we think the plan does have the ability to incrementally increase the amount of illiquid investments that you can make.

At the end of the slide, we will show you our preliminary recommendation. But to take the anticipation out of it, we do think we can add incrementally to new asset classes that should improve expected returns.

Here's where we are now on Page 7, the current asset allocation strategy. We are about 60 percent in publicly traded equities in both U.S. and globally, non-U.S. and emerging markets, 20 percent in fixed income and 20 percent in alternatives, which we have defined fairly broadly
as kind of real assets, liquid diversifying assets and private equities.

How does that compare to other public pension plans? We try to illustrate that here on Page 8.

Under the column heading "FABF Current Target", this is what is in our Investment Policy Statement. We compared that to the average public pension plan just to give the trustees an idea of what others are doing.

Your financial conditions are unique and we want to make your asset allocation decision based on your conditions alone. But I think it's important for public fund boards and fiduciaries to always understand what other public plans are doing and have a discussion about why they may be doing that.

A couple of high level takeaways here. You have had more in public equities. You have had more than the average fund in U.S. and global ex-U.S. equities. You have had less in fixed income and less in alternatives.

Now over the past ten years, this strategy has been very beneficial to the Fund. So
U.S. equities in particular have performed well. Fixed income has struggled to keep up with some of these investments. So the way you have been allocated for the past ten years away from illiquid assets has really been a tailwind to the performance of the plan. But the question we're dealing with today is how do we think we are going to perform over the coming 10 and 20 years.

We really do think it's important to reevaluate how much is in public equities and fixed income and alternatives and really start to make more use of these tools that other public pension plans have been able to invest in because they had more certainty about their contributions or their funded status was higher so they were able to put more assets into illiquid investments.

We have touched a little bit on the 2017 study so this is really a continuation of what we started then, which is a process of further diversifying the asset allocation strategy of the plan, reducing the amount in public equities, increasing our exposure to real assets or assets that are sensitive to inflation.

And, as you will hear a little bit later,
we also over the past couple months discussed a couple new asset classes that we will ask the Board to think about in more detail; private credit and infrastructure.

The concept in 2021 is really to build on what we did in 2017 , which is improving the diversification of the plan.

We really do think you're in a position to do that now given the certainty that we have in 2021 about contribution levels that we didn't have in 2016 and 2017 when we were making that decision back then.

In order to make these projections, Callan uses a set of assumptions about what different asset classes will return in the coming ten years.

There is a paper that we recently distributed to our clients that talks about how, despite having really one of the best calendar years in fiscal year asset returns in 35 or 40 years, most public plans are expecting modest returns going forward and that is our message for you as well.

We do think it is going to be hard to
meet your actuarial discount rate over the next ten years. We do think over a longer time horizon, maybe 20 or 30 years, you will have no problem in exceeding that 6.75.

Our message for clients today is the next ten years is going to be modest because we are starting at a position of very low interest rates.

So you can see our assumption for core fixed income for the next ten years is a return of 1.75 so very modest.

We have had a very good run on equities. If we get a lot of strong performance, it really means it is going to be harder to get excess returns going forward. So we have more modest expectations for many of the publicly traded asset classes, that is one of the factors playing into us recommending the Board consider new asset classes like we have highlighted here in yellow; private infrastructure and private credit.

This chart is a little technical but when we do this exercise we try to see if we designed a portfolio that is your current asset allocation strategy that is efficient. Meaning that for a given level of risk it gets us the highest possible
expected return.
We can measure that based on the yellow dot being on the blue line. This blue line is really a horizon. You can't move above it. You can only be below it. If you are below it, it means that you could shift your asset allocation, your mix between different asset classes, to achieve a higher return or a lower level of risk.

But what $I$ want the Board to take away here is that we have got an efficient mix. It shouldn't surprise anyone. It wasn't a surprise to us. We put a lot of time and effort in designing this mix. It was using Callan's assumptions. This isn't a huge surprise.

But we are taking a level of risk that's very consistent with the triangle here that is labeled 4. This is a hypothetical portfolio and we're pretty much spot on it. This gets to the first question of how much risk do we want to take.

We're recommending you continue to take the same amount of risk that you have been taking so here we show a lot of details. Maybe just look to the bottom of the table that says Mix Characteristics.
$\square$
Your current standard deviation or the risk estimated in your asset allocation is about 13.28. That Mix 4 has a risk level of 13.27.

You could increase that risk level to try to increase your expected return but that would require us to reduce the amount that we have allocated to fixed income, which as we saw in the first quarter of 2020, and another market crisis can be an anchor to windward.

So the balance we're trying to strike is how aggressive do we want to be without the possibility of creating losses, painful losses, when risky assets pull back.

We do know that risky assets is a bumpy ride. So 2020 was a good example. The quarter started out with a drop in the month of March of around 30 percent and ever since then it's just been roaring back.

As Lorna said, we did have a slight give up in September but it is really hard to predict. About seven out of ten years the $S \& P 500$ has had a positive return.

When we think about how much we put in fixed income, that is really a measure of the
amount of safety assets that we have in the portfolio. We have been operating with about 20 percent. Going more conservative to 25 percent. Kind of makes it harder to justify that expected return that we have and we would have to lower the return that we expect from these portfolios.

So, in general, we think the amount of risk that you have been taking is good. We recommend that you continue to take a risk level that is around where you currently are and where this Mix 4 is.

Let me pause there for a second because that is one of the big kind of preliminary recommendations from today.

CHAIRMAN FORTUNA: Any questions?
All right. None.
MR. O'CONNELL: I will wrap it up in the next couple of minutes here.

The second question is do we want to do more in illiquid investments and in particular private credit and infrastructure.

So I think this discussion about these two asset categories began in March of 2020, or maybe it was April, where we talked about deflation
and now the question of the day is really is there going to be sustained inflation. Both of these asset classes have kind of inflation protection built into them. These are asset classes the Board hasn't used in the past that some of your peer plans do. With bond yields being very low, private credit is now more an attractive investment opportunity.

We have modeled scenarios that show what the expected return would be if we add these new tools to the portfolio.

There is a lot of numbers on this page but what $I$ would like to do is maybe compare that Mix 4 to that Mix 4-14. So this is at the end of the day the portfolio that I think you should consider, which is adding a modest 3 percent allocation, a new asset allocation to both infrastructure and private credit. Getting rid of the commodity allocation, that is currently 2 percent, and shifting the 2 percent allocation that is currently earmarked for TIPS.

There is also a reduction in publicly traded stocks and bonds to fund some of those new investments.
What this does, adding these new asset
classes, effectively shifts this efficient frontier up. It allows us to experience a higher expected return, again based on our forward looking assumptions, at the same level of risk.

So with these scenarios, we have modeled how can we improve the plan's expected return without increasing risk.

Here we are measuring risk from a traditional standpoint, which is the standard deviation of the bounciness of return.

What we don't measure on this chart is the concept of illiquidity. Illiquidity becomes a problem when you have to sell assets in a short period of time.

In all of these scenarios, you would still have a large amount invested in equities and fixed income.

Based on those cash flow projections we touched on a few minutes ago, we don't think you're going to need to sell less liquid investments but that is the one factor that makes us cautious about approaching some of these less liquid asset classes.

Now just to wrap it up. At the end of the day, we're 20 percent funded. The path to improving that is going to be driven by the contributions.

We have seen those. The net cash flow flip from one that was consistently negative to positive and it will be that way over the next several years.

Over 20 years, we do expect that to shift us to about 43 percent funded status. Over the next ten years, we are going to get halfway there so about 32 percent.

At the end of the day, when you have 20 cents on the dollar, there is not much you can do just with the asset portfolio to fix that problem so we need contributions. But when you have 20 cents for every dollar of liabilities, you really need to get a return that is five times the asset size to keep up with the change in liabilities.

So we are kind of coming from behind. We need to rely primarily on these contributions. We can still do an excellent job in investments to try to help improve that funded status further. That is a discussion we had in 2017.

This cash flow is critical to the plan's financial health improving but we still want to do as good a job as possible on the investment side. At this point, we are open to feedback, questions, initial reactions to these recommendations, and open to having further discussions in the coming months before making a final recommendation to the Board.

Here, again, on Slide 17 is the proposed mix relative to the current policy. And that Mix 4-14, it says "both" underneath, that is a scenario that involves, again, allocating to these new asset classes that we spent a little time on;
infrastructure and private credit.
Again, as you consider these, these asset classes take some time to get exposure to. They would be long-term investments. I think five years from now, depending on the experience over the next five years, we would reevaluate whether or not we wanted to add to that further or reduce that.

These decisions are to make initial
allocations aren't irrevocable. Investing in these things are kind of hard to undo immediately. But part of the goal is to when we add a new asset
class is to make an incremental change and then see how it goes and build on that further if it is successful.

MEMBER VALENCIA: On the last slide, we're looking at, based on the analysis, our fund would be funded at 32 percent in 2030 under this current Investment Policy?

MR. O'CONNELL: That is correct. And based on the current contributions and projected contributions.

MEMBER VALENCIA: Okay, thank you. When I started, it was 18 percent $I$ think.

MR. O'CONNELL: That sounds right. It is going in the right direction but the change is going to be small and gradual on a year-to-year basis.

MEMBER VALENCIA: Thank you.
CHAIRMAN FORTUNA: Any questions for Brady?

MEMBER MCPHILLIPS: No. Brady, I thought that was a fantastic presentation. Very nice job.

MR. O'CONNELL: Thank you.
MS. SCOTT: This was the initial
introduction and the plan is to possibly have an

Investment Committee meeting at the end of November to kind of do a deeper dive and give Trustees time to think about what we are planning on doing and then answer any additional questions on this new asset allocation at the end of November.

MEMBER VALENCIA: You are expecting a vote at the next meeting in November or in December?

MS. SCOTT: I believe the November agenda will be very full. The short answer is probably in December.

MEMBER VALENCIA: Okay. We will have about two months, a month and a half, to review this?

MS. SCOTT: Correct.
MEMBER VALENCIA: Thank you.
CHAIRMAN FORTUNA: Trustees, any questions?

Lorna, thank you.
MS. SCOTT: One last thing, Mr.
President, that covers the investment portion but $I$ did want to give Jackie a chance to talk about the checking account. She wants to provide the Trustees on Chase.

CHAIRMAN FORTUNA: Please, do.
MS. VLAHOS: This should be pretty quick. I know you have had a pretty long meeting.

Basically, as of October, our balance as of October 14 th is approximately $\$ 94.2$ million. We are expecting one more salary contribution of $\$ 1.8$ million. Bringing us to available cash of $\$ 96$ million. After our October benefit payments and our October bills, we look at expenditures of approximately $\$ 34.4$ million. Leaving us an overage of $\$ 61.6$ million at the end of October.

Do you want to go to the next page which is the cash flows? Kind of like we discussed last month, we are kind of anticipating whether or not we are going to be receiving tax receipts and we have seen a large portion of that coming in.

Currently, as of October to the end of year, we originally had it was $\$ 371$ million due to us in tax receipts from the City.

We have a remainder, if you look on the first column, for the end of year of about \$17 million we're still anticipating. And then with that being said, if we get the tax receipts like we're anticipating, if you look all the way over to
the right, we have the $\$ 94$ million after our benefit payments and our administrative costs, we are going to be at the $\$ 61.6$ million. And it should carry us with the additional receipts through the end of the year with no drawdowns.

Just because due to timing, a lot of times in January, we don't see any tax receipts or it is very small, we might have to do a small drawdown in January. But, hopefully, as long as things come in as they have in the past, we should have no drawdowns for the remainder of 2022.

Are there any questions?
CHAIRMAN FORTUNA: Questions?
No questions, Jackie. Thank you.
MEMBER SONI: Looks great. Thanks, Jackie.

MS. SCOTT: Now we are done.
MEMBER MURPHY: Moving on to 7, Administrative Expenses.

MEMBER SONI: I do have to leave the meeting. I apologize. Did you need anything from me?

CHAIRMAN FORTUNA: No, you're good.
Thank you.

MEMBER SONI: Thanks, everyone. Have a great week.

MEMBER MURPHY: I'd like to make a motion to approve the Administrative Expenses as they have been presented.

MEMBER MCPHILLIPS: Second.
CHAIRMAN FORTUNA: There is a motion by
Trustee Murphy. Seconded by Trustee McPhillips.
Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.
MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.

CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.

CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.

MEMBER MURPHY: Moving on to 8, I'd like
Kelly to present his Executive Director's Report.
MR. KELLER: First off, great to see everyone as always.
$\square$
One and two, just to pass along, the Governor did extend the Declaration of Disaster through November 15th. Our meeting falls right after that but based on our prior experience, it looks like we will -- and the President has agreed, we will look at a virtual format in November. That gives everybody a chance to look at their calendars, if there is an opportunity for them to be here. If there is not going to be an opportunity for you to be here, please let me know so that we can make sure our quorum stays on the date.

The other thing $I$ want to do is a broad category. I want to thank the staff. Things have been a little hectic and they are going to get a little bit more hectic as we move into the end of the year. And the staff has done a great job under these unusual circumstance to keep everything moving along. They have done a great job so kudos to them.

To conclude a little bit on Jackie's comment on the banking. We did finalize our arrangement in moving the accounts away from the City in consolidation with Chase where we
individually manage the account as a FABF account.

We met with the GPM team earlier this week and we have got that transition to happen probably the first or second week of January as we get through the payroll for the end of the year. We are moving forward with that. That is a great move on our part and $I$ think it will help us get control of the banking. Have more control over that side of the business. Kudos to Jackie in keeping that moving forward.

Into the meat of the report, $I$ did put the sexual harassment awareness and prevention module as well as the IT security awareness module into BoardPac this week.

We are moving into the end of the year. Everybody needs to get their eight hours of training in.

Lorna mentioned that there will be another investment committee coming in November. We have looked at those at about two to two and a half hours of credit for each one.

So the folks going through the investment committee meetings and complete this training should be fine on the eight hours.

The folks that don't, you can reach out to me, we want to make sure we can get training arranged by the end of the year.

If all of you could, it is mandatory that we have these certificates on file for both the sexual harassment and prevention training as well as the security awareness training. It is the last page of the module. Fill it out, take a picture of it and send it back to me and the Fund and we will go ahead and make sure we have a record of that being done.

Secondly, through our cyber renewal, which you will see in November, we have initiated several security enhancements that were I think critical and important. I am glad we worked through them. Kudos to Chris in that regard.

You will see as Trustees, those who use the FABF email address and you access the FABF email through Microsoft 365, there will be an enhancement on Microsoft 365 that will require you to go through a multifactor authentication. We are going to roll that out after this meeting. It will probably start next week.

As you see those emails come in, work
with Chris. It is not a complicated process but you need to make sure you keep that code that you get sent as a one time sign-in. That is your unlock key if something should happen in the future. I recognize there is a little bit of frustration that we are going to impose at the front end but it is very, very critical for us to protect our email systems considering the integrity of the data we move.

As part of that, we have encrypted our terminal server with a dual multifactor authentication and we have encrypted all of our computers with a BitLocker.

We are really moving in a way to help us protect the data of our members and to make sure that we do not have any outside areas where someone can get into our critical data server.

The next thing $I$ want to move into is the election. We are moving into an election count, which would be October 26 th, next week, at eight a.m.

For those who are interested, we will be doing that in this conference room. We will follow the procedures to the letter. Those of you who
want to participate be here at eight a.m. to do that.

We only received one request to send a replacement ballot. We got that done last week so it looks like the mailing went well and the request for supplement ballots was almost nil. So far it appears that everything is moving along as we had planned so that is that.

Let's move on. I am bracing everyone for a little bit of news. I think it is good news in my world. We did have our employee healthcare discussion with our outside provider. It looks like when we're looking at budgeting for 2022 about a 4.6 percent increase or about $\$ 19,000$ annual increase in year-over-year coverage for our employee team.

I think looking at industry standards and in contact with our person who is coordinating on our benefits, Kathy Rowe, we are actually quite a bit below the national average. We use an age based rating which has helped us in the long run. I think as we look into November we're going to be doing an open enrollment. We are going to be looking for renewal on that, that will be on the

November 17 th agenda.
I just wanted to say if you have questions about it let me know because we do intend to press on and expect to go with the plan as it is proposed right now with the 4.6 percent increase.

If you want more data on that, let me know. I will be happy to provide that.

The police settled the contract as you are aware. There are some need to metro in that, that will be flowing towards the end of the year. Chris is aware of that. So is Michelle. We are not completely aware what that means throughout the role throughout our plan but we do know it is coming so we're going to brace that and make sure that gets implemented. You will know more about that hopefully in December $I$ think we should know more and then we will institute that as we get the verification.

That gets me through the broad items. Next is Board approval for our 2022 board meetings.

As you can see from the list, this would be our meetings. We are staying to our convention of the third Wednesday of the month. That seems to suit the other plans and our schedules as well.

This reflects what we anticipate for 2022 reflecting those third Wednesdays of each month.

CHAIRMAN FORTUNA: I would like all the trustees to take a look at this before we take a vote on it.

MEMBER VALENCIA: Just so you know, I don't know, the Mayor has not set her City Council meetings. They are on Wednesdays. Just know that if they fall on the same Wednesday, $I$ will have a hard time making it or will only be able to be here for the first hour before Council. I just wanted to flag that, if we do Wednesdays.

CHAIRMAN FORTUNA: That is totally understood and that is why I want everybody to take a good hard look at this. If there is anything we need to move early, it will make it a lot easier for us and staff, if you can email that to everyone.

MR. WELLER: Do you want to table this vote?

MS. BURNS: We can just defer it. We don't have to take a motion on it.

MR. WELLER: So the second piece of that would be the holidays. We can wait on that as well
but these are the holidays. We are waiting for the City of Chicago to finalize Juneteenth which right now is not is showing up on their schedule as a date. Whatever City of Chicago decides do with that date, we will go ahead and address accordingly. We moved it to the Monday preemptively because Juneteenth falls on a Sunday.

This would be the holidays that would be reflected based on last year's scheduling.

CHAIRMAN FORTUNA: Okay.
MS. BURNS: Do you want to make a motion to adopt that?

MEMBER MURPHY: I make a motion on the advice of Fund counsel.

MS. BURNS: Kelly has proposed the office holiday schedule. He is deferring the board meeting schedule. We can defer them both. I want to make sure that is what you want.

MR. WELLER: We will put these on the November agenda for final approval after everyone has a chance to look at them.

MS. BURNS: We can coordinate it with the City.

MR. WELLER: The last piece is we did get
requested from Blue Cross Blue Shield Illinois to do a blind mailing. Everyone has had a chance to see that. Our attorneys have reviewed it. It's just essentially about retiree healthcare and some of the options that Blue Cross is offering.

We reached out to Aetna. Aetna did not respond at this point to use our Blind Mailing Policy.

They have asked us to coordinate with the
printer. We have done that at this point in time. Pending the Board's approval of the material, we would ask for the approval of the Blind Mailing Policy and to allow Blue Cross to move forward with this piece of mailing that has been approved.

MEMBER MURPHY: Based on that
recommendation, $I$ would like to make a motion to approve the retiree healthcare blind mailing for Blue Cross as presented.

MEMBER VALENCIA: Second.
CHAIRMAN FORTUNA: Motion by Trustee
Murphy. Seconded by Trustee Valencia.
Trustee Murphy.
MEMBER MURPHY: Yes.
CHAIRMAN FORTUNA: Trustee Sheridan.

MEMBER SHERIDAN: Yes.
CHAIRMAN FORTUNA: Trustee McPhillips.
MEMBER MCPHILLIPS: Yes.
CHAIRMAN FORTUNA: Trustee Tebbens.
MEMBER TEBBENS: Yes.
CHAIRMAN FORTUNA: Trustee Valencia.
MEMBER VALENCIA: Yes.
CHAIRMAN FORTUNA: And $I$ am a yes.
Motion carries.
MR. WELLER: The next meeting is November
17 th. Again, if anybody knows that they are not able to attend, please let us know so we make sure our quorum stays intact.

Thank you, very much.
CHAIRMAN FORTUNA: Thank you, Director Kelly.

MEMBER MURPHY: Moving to 9, Legal Update.

MS. BURNS: There is nothing to report this month.

MEMBER MURPHY: New Business/Old
Business. Any new business or old business?
CHAIRMAN FORTUNA: Hearing none.
MEMBER MURPHY: I'd like to make a motion

```
to adjourn today's meeting.
                    MEMBER VALENCIA: Second.
                    CHAIRMAN FORTUNA: Motion to adjourn.
Seconded by Trustee Valencia. All in favor?
                    (Chorus of ayes.)
                    CHAIRMAN FORTUNA: Thank you, very much,
    everyone.
                    (WHICH WERE ALL THE PROCEEDINGS
                    IN THE ABOVE-ENTITLED MEETING
    AT THIS DATE AND TIME.)
```

```
STATE OF ILLINOIS )
                                    ) SS.
COUNTY OF DU PAGE )
```

DEBORAH TYRRELL, being a Certified Shorthand Reporter, on oath says that she is a court reporter doing business in the County of DuPage and State of Illinois, that she reported in shorthand the proceedings given at the taking of said cause and that the foregoing is a true and correct transcript of her shorthand notes so taken as aforesaid; and contains all the proceedings given at said cause.

Debbie Jyruell
DEBBIE TYRRELL, CSR License No. 084-001078

$45: 15,111: 10,116: 5$
air [10]-22:23, 22:24,
44:11, 51:11, 52:22,
53:2, 53:3, 53:6,
56:5, 61:12
alert [1] - 87:11
ALL [1] - 119:9
allocate [1] - 86:15 allocated [2] - 94:4, 98:7
allocating [1] - 103:12 allocation [16] - 85:12,
85:15, 85:23, 86:18,
88:14, 92:20, 93:12,
94:20, 96:22, 97:6,
98:2, 100:17,
100:19, 100:20,
105:5
allocations [2] - 87:3,
103:22
allow [1] - 117:13
allows [2]-3:2, 101:3
almost [2]-37:12,
113:6
alone [1] - 93:13
ALSO [1] - 2:15
alternatives [3] -
92:24, 93:22, 94:11
ambient [1] - 44:11
ambulance [4] - 21:4,
46:20, 47:3, 47:21
Ambulance [3] - 21:6, 21:7, 45:22
amount [8] - 91:23,
92:12, 94:21, 97:21,
98:6, 99:1, 99:7,
101:17
amputations [1] - 75:6
analysis [1] - 104:5
anchor [1] - 98:9
AND [3] - 1:3, 2:13,
119:11
angioplasty [1] - 75:9
ANNA [1] - 2:9
annual ${ }_{[2]}-6: 17$, 113:14
Annuitant [1] - 2:4
Annuities [2] - 7:22, 8:20
ANNUITY ${ }_{[1]}-1: 3$
answer [5] - 77:5,
80:10, 81:23, 105:4, 105:10
answers [1] - 82:1
anticipate [1] - 115:1
anticipating [3] -
106:14, 106:22,
106:24
anticipation [1] -
92:16
apologize [1] - 107:21
appeal [1] - 67:14 appearance [1] 15:20

## APPEARANCES ${ }_{[1]}$ -

 2:1applicant [6] - 16:3, 16:4, 18:19, 68:11, 69:13, 71:11 applicant's [2] -
15:24, 69:11
applicants [2]-50:11, 74:8
application [8] -
14:12, 14:21, 15:6, $18: 14,19: 15,19: 24$, 68:20, 68:24
applications [1] 14:12
applies [1] - 49:10 appointment [2] -
72:21, 72:22
appreciate [4] - 48:13, 60:10, 77:6, 82:3 approaching [1] 101:23 approval $[9]-3: 12$, $4: 7,4: 8,80: 3,80: 19$ 114:20, 116:20, 117:11, 117:12 approve [10] - 4:14, 7:21, 8:20, 9:18, 10:15, 11:12, 12:14, 82:12, 108:4, 117:17 approved $[4]-13: 14$, 40:4, 40:5, 117:14 approximate [1] 46:11
approximation [1] 46:18
April [5] - 4:13, 4:17, 27:15, 51:19, 99:24 area [1] - 34:22 areas [1] - 112:16 arranged [1] - 111:3 arrangement [1] 109:23
arrived [2]-29:16, 31:6 artery [1] - 75:10 aspects [1] - 88:11 asset [34]-84:7, 85:12, 85:15, 85:23, 86:18, 87:15, 88:14, 89:8, 92:17, 92:20, 93:12, 94:20, 95:2, 95:15, 95:20, 96:15, 96:17, 96:22, 97:6, 97:7, 98:2, 99:23, 100:3, 100:4,

100:17, 101:1, 101:23, 102:15, 102:18, 103:12, 103:15, 103:24, 105:5
Asset [6] - 83:12, 83:17, 85:4, 87:6, 87:21, 88:13
assets [18]-86:15,
86:16, 86:19, 87:15, 89:3, 90:1, 90:8, 90:11, 93:1, 94:5, 94:16, 94:22, 98:13, 98:14, 99:1, 101:14 assigned [2]-21:13, 43:19
assignment [5] - 18:2, 42:19, 42:20, 70:17, 70:19
assumption [1] - 96:8 assumptions [3] 95:14, 97:13, 101:5 AT [1] - 119:11
attached [2] - 50:5, 74:2
attempt [2] - 77:2, 77:3
attend [2] - 37:10, 118:12
attendance [1] - 4:23
attention [2]-42:22, 45:2
attorney [7] - 15:19,
15:21, 67:10, 67:12, 67:13, 69:6, 69:8
ATTORNEYS ${ }_{[1]}$ 2:12
attorneys [4] - 15:1,
41:24, 68:16, 117:3
attractive [1] - 100:7
attribution [1] - 84:2
audio [5] - 3:2, 4:9,
4:10, 4:12, 4:15
August [25] - 19:17, 20:3, 28:4, 28:11, 28:12, 28:20, 28:22, 32:10, 33:12, 33:18, 35:11, 40:3, 42:22, 44:2, 45:11, 51:5, 51:11, 51:21, 52:16, 55:14, 55:19, 56:18, 57:10, 60:22, 61:9
authentication [2] 111:21, 112:12 available [4] - $3: 12$, 41:17, 68:12, 106:7 average [3]-93:8, 93:20, 113:20
aware [3] - 114:9, 114:11, 114:12
awareness [3] -
110:12, 110:13,
$111: 7$
ayes [1] - 119:5

| $\mathbf{B}$ |
| :--- |
| bad $[1]-38: 11$ |

bad [1] - 38:11
balance [2] - 98:10, 106:4
ballot [1] - 113:4
ballots [1] - 113:6
ballpark [1] - 23:2
banking [2] - 109:22, 110:8
Barry [1] - 12:15
bars [1] - 90:7
Based [1] - 79:13
based [22] - 6:20,
13:14, 19:16, 46:13,
53:17, 55:10, 61:6,
67:1, 75:24, 81:3,
90:13, 92:10, 93:13,
97:2, 101:4, 101:19, 104:5, 104:9, 109:4,
113:21, 116:9,
117:15
basis [5] - 19:23,
86:20, 88:9, 91:2,
104:16
Battalion [1] - 45:22
becomes [2]-76:17,
101:13
bed [1] - 35:4
BEFORE [1] - 1:1
began [2] - 86:22, 99:23
begin [3]-22:14, 68:18, 85:10
beginning [3] - 11:13, 64:3, 67:11
behalf [2] - 15:20,
82:4
behind [2]-84:12, 102:20
below [3] - 97:5,
113:20
benchmark [2] -
84:12, 84:16
bend [1] - 58:22
bending [1] - 34:10
beneficial [1] - 93:24
Benefit [1] - 12:10
BENEFIT [1] - 1:3
benefit [15] - 14:22,
15:15, 16:2, 22:21,
67:3, 68:21, 69:2,
69:13, 79:16, 81:2,
81:3, 88:4, 88:12,
106:8, 107:2
benefits [10] - 65:9, 66:5, 77:10, 87:16, 88:17, 89:4, 89:5,
90:21, 91:5, 113:19
Benefits [2] - 10:14,
10:16
best [4] - 35:6, 44:7, 68:3, 95:19
better [6] - 29:24,
34:7, 37:20, 39:1,
47:4, 91:23
between [6] - 31:6,
47:7, 52:3, 52:8,
85:4, 97:7
big [3]-56:2, 58:17, 99:13
billion [2] - 89:8, 89:10
bills [1] - 106:9
bit [11] - 38:13, 39:1,
39:15, 89:14, 94:17,
94:24, 109:16,
109:21, 112:5,
113:10, 113:20
BitLocker [1] - 112:13
blind [2] - 117:2,
117:17
Blind [2] - 117:7, 117:12
blue [4]-90:7, 97:3
Blue [5]-117:1,
117:5, 117:13, 117:18
Board [61] - 2:18, 3:7,
3:16, 3:17, 3:19,
6:24, 16:2, 16:5,
16:9, 16:17, 17:2,
18:6, 18:18, 18:23,
19:4, 19:15, 19:20,
24:10, 33:19, 41:11, 48:3, 50:12, 50:18, 60:14, 61:23, 63:14,
63:15, 65:4, 69:12,
69:22, 70:22, 71:10,
71:14, 72:1, 74:2,
74:9, 74:19, 80:4,
81:1, 82:12, 84:23,
85:7, 85:14, 85:22,
86:6, 86:10, 86:16,
88:24, 91:20, 95:2,
96:17, 97:9, 100:4,
103:8, 114:20
board [9] - 4:17, 15:8, 44:6, 50:5, 67:21,
69:18, 83:15,
114:20, 116:16
BOARD $[3]-1: 2,2: 2$, 2:12
Board's [9] - 16:11,
63:16, 67:5, 67:14,


| $\begin{aligned} & \text { 112:1 } \\ & \text { component }[1] \text { - 90:23 } \end{aligned}$ | $\begin{gathered} \text { consultant }[4]-16: 12, \\ 33: 5,50: 7,74: 4 \end{gathered}$ | $\begin{aligned} & \text { 74:1 } \\ & \text { } \operatorname{cord}_{[1]}-52: 6 \end{aligned}$ | $\begin{aligned} & \text { 103:1, 111:15, } \\ & \text { 112:7, 112:17 } \end{aligned}$ | $\begin{aligned} & \text { decides }[2]-81: 17, \\ & 116: 4 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| Comptroller [2]-2:10, | contact [2]-26:1, | $\text { core }[1]-96: 8$ | Cross [4]-117:1, | decision [15]-63:15, |
| 2:17 <br> computers | $\begin{aligned} & \text { 113:18 } \\ & \text { contains }[1]-120: 1 \end{aligned}$ | corner [1] - 88:23 correct 58$]$ - 14:18 | $\begin{aligned} & \text { 117:5, 117:13, } \\ & \text { 117:18 } \end{aligned}$ | $\begin{aligned} & \text { 63:16, 63:17, 67:5, } \\ & \text { 67:14, 67:16, 79:18, } \end{aligned}$ |
| 112:13 | continuation [1] | 14:19, 17:1, 19:18 | CROWLEY ${ }_{\text {[6] - 41:19, }}$ | 81:15, 85:16, 86:5, |
| oncept [2] - 95:5, | 94:18 | $19: 19,20: 5,22$ | 41:22, 42:2, 42:4 | 8:7, 86:10, 88:1 |
| 01:13 | continue [3] - 36:14, | $: 20,22: 23,22: 24,$ | 42:8, $48: 10$ | 93:12, 95:11 |
| conclude [1] - 109:21 | 97:20, 99:9 | 23:17, 26:1, | Crowley [8]-21:11, | decisions [2]-85:14, |
| concluded [2]-61:24, | continued [3] - 28:2, | 27:14, 27:1 | 2:3, 22:5 | 103:21 |
| 64:6 | 36:22, 59:23 | 27:16, 27:18, 27:19, | 22:6, 41:18, 41:19, | Declaration [1] - |
| concludes [1]-76:11 | continuing [2] - 11:14, | 7:23, 28:15, 28:19, | 42:15 | 109:2 |
| Conclusions [3] - | 91:2 | 28:20, 29:2, 29:3, | CSR [1] - 120:17 | deem [1] - 68:3 |
| 79:3, 79:5, 79:14 | contract [1] - 114:8 | 29:7, 29:11, 29:13, | curious [2]-76:13, | deeper [1]-105:2 |
| condition [16]-33:20, | contribute [1] - 52:24 | 29:18, 29:19, 30:8, | 77: | defer [2]-115:21, |
| 45:3, 52:1, 52:18, | Contribution [1] - | 30:9, 30:14, 30:22, | current [20]-33:20, | 116:17 |
| 53:1, 53:5, 53:11, | 9:17 | 1:3, 31:4, 31:15 | 42:16, 42:19, 42:20, | deferring ${ }_{[1]}$ - 116:16 |
| 53:18, 53:22, 53:23, | contributio | 31:16, 32:24, 33:1, | :2, 55:13, 63:12, | defined [1] - 92:24 |
| 54:3, 54:22, 55:16, | 89:21, 91:4, 95:10, | :7, 33:9, 33:10 | :14, 72:1, 75:1, | definitely [1] - 32:8 |
| 72:2, 72:6, 75:1 | 106:6 | 46:4, 46:5, 46:22 | 88:4, 88:6, 89:4, | deflation [1] - 99:24 |
| conditioning [1] - | contributions [11] | :2, 50:3, 51:22, | 1:5, 92:20, 96:22, | DeFrino [1] - 72:24 |
| 35:17 | 87:5, 87:7, 88:4, | 71:19, 71:22, 71:23, | 98:1, 103:10, 104:7, | degenerates [1] - 62:9 |
| conditions [4]-52:13, | 89:16, 90:24, 94:14, | 73:23, 76:12, 81:6, | 104 | degeneration [2] - |
| 75:24, 93:11, 93:13 | 102:4, 102:16, | 104:8, 105:15, | Current [1] - 93:6 | 52:14, 53:15 |
| conduct [1] - 52:23 | 102:21, 104:9, | 120:11 | cut [3] - 36:15, 63:6, | degenerative [11] - |
| conducted [1]-3:2 | 04:10 | correctly [1] - 81:1 | 77:3 | 52:18, 53:1, 54:3, |
| conducting [1] - 15:2 | control [2] - 110:8 | costs [1] - 107:2 | cutoff [2]-35:10, 37:4 | 55:16, 56:3, 56:4, |
| conference [1] - | controls [1] - 81:15 | couches | cyber ${ }_{[1]}$ - 111:12 | 59:11, 61:5, 62:7, |
| 112:23 | convention [1] - | Council [2] - 115:7, |  | 62:14, 62:16 |
| confirmed [2] - 55:2, | 114:22 | 115:11 | D | degree [1]-55:12 <br> deliberate $[1]$ - 86 |
| confused [1] - 60:8 | $33: 24,47: 5,47: 18$ | $6: 24,79: 1,80: 1 \text {, }$ <br> 80.9, 80:17, 116:14 | $\text { daily }[1]-86: 20$ | demanding [1] - 59:2 |
| connected [1]-23:1 | CONYEARS ${ }_{[13]-2: 8,}$ <br> $5: 8$ 6:7 7:11.7:24 | $\begin{aligned} & \text { 80:9, 80:17, 116:14 } \\ & \text { count [1]-112:19 } \end{aligned}$ | $\begin{aligned} & \text { damage }[2]-58: 6, \\ & 59: 8 \end{aligned}$ | deny [4]-66:5, 66:9, 67:3, 71:6 |
| CONNESS [1]-2:17 conservative [2] - | $\begin{aligned} & 5: 8,6: 7,7: 11,7: 24, \\ & 8: 10,9: 7,10: 5,11: 2, \end{aligned}$ | counter [1] - 29:22 | DANIEL [1] - 2:3 | 67:3, 71:6 <br> Department [20] - |
| 27:12, 99:3 | 11:24, 13:1, 13:16, | COUNTY ${ }_{[1]}-120: 2$ | data [5] - 88:21, 112:9, | $16: 13,17: 24,20: 2,$ |
| consider [8] - 18:14, | $14: 2$ | County [3] - 1:13, | 112:15, 112:17, $114: 6$ | 22:13, 32:11, 36:15, |
| $\begin{aligned} & \text { 61:7, 61:23, 86:11, } \\ & 91: 20,96: 17, \end{aligned}$ | Conyears [13]-5:7, $6: 6,7: 10,8: 3: 8: 9$, | 67:15, 120:8 couple [9]-25:23, | 114:6 <br> DATE ${ }_{[1]}$ - 119:11 | 42:17, 70:15, 71:18, |
| 100:16, 103:15 | $9: 6,10: 4,11: 1,$ | 26:12, 37:3, 56:16, | $\text { date }[14]-18: 7,23: 16 \text {, }$ | $1,80: 3,80: 19,$ |
| considerably [1] - | 11:23, 12:24, 13:19, | 87:19, 93:18, 95:1, | 6:22, 43:18, 43:24, | 19, 81:11, 81:1 |
| 87:13 | 14:1, 63:23 | 95:2, 99:18 | :8, 68:21, 70:21, | 81:15, 81:17 |
| consideration [1] 4.20 | CONYEARS-ERVIN <br> [131-2:8, 5:8, 6:7 | $\begin{aligned} & \text { course }[4]-20: 7, \\ & 52: 15,85: 9,86: 8 \end{aligned}$ | $\begin{aligned} & \text { 72:13, 84:14, 84:15, } \\ & \text { 109:12, 116:4, 116:5 } \end{aligned}$ | Deputy [1] - 2:16 <br> describe ${ }_{[2]}$-19:22 |
| considerations [1] - | 7:11, 7:24, 8:10, 9:7, | Court [3]-13:11, | dated ${ }_{[1]}$-6:24 | $71: 24$ |
| 85:20 | 0:5, 11:2, 11:24, | 3:12, 67:15 | days [4]-28:12, 55:3, | described [5] - 22:19, |
| considered ${ }_{[1]}$ - 67:2 | 13:1, 13:16, 14:2 | court [1] - 120:7 | 55:6, 67:16 | 30:12, 37:24, 52:21, |
| considering [1] - | Conyears-Ervin [13] - | coverage ${ }_{[1]}-113: 15$ | dead [1] - 35:20 | 55:19 |
| 112:8 | 5:7, 6:6, 7:10, 8:3, | covers [1] - 105:21 | dealing [2] - 35:2, 94:7 | description [1] - 62:24 |
| consistent $[7]-3: 5$, 3:14, 51:2, 51:4, | 11:23, 12:24, 13:19, | $\text { credit }[13]-80: 5 \text {, }$ | Death [2] - 10:14 | designed [1] - 96:21 designing $[1]$ - 97:12 |
| 74:22, 78:6, 97:16 | 14:1, 63:23 | 80:14, 80:22, 81:6, | 10:15 | desire [2]-15:20, |
| consistently [1] - | Cook [2]-1:13, 67:15 | 81:10, 81:11, 95:3, | DEBBIE $_{[1]}$ - 120:17 | 69:7 |
| 102:6 | cooperate [1] - 88:20 | 96:19, 99:21, 100:7, | DEBORAH ${ }_{[1]}$ - 120:6 | despite [2] - 37:22, |
| consolidation [1] - | coordinate [2] - | 100:18, 103:14, | decades [1] - 91:12 | 95:19 |
| 109:24 | 116:22, 117:9 | 110:21 | December [3] - 105:8, | detail [2] - 68:2, 95:3 |
| constantly [2] - 34:15, 58:16 | coordinating [1] 113:18 | crisis [1] - 98:8 | decide [1] - 63:14 | details [1]-97:22 <br> determination [1] |
| constraints [1] - 3:15 <br> consultand [1] - 69.20 | $\begin{gathered} \text { copy }[6]-18: 5,19: 10 \\ 45: 7,50: 4,70: 22 \end{gathered}$ | $\begin{aligned} & \text { critical }[8]-87: 5 \\ & 88: 23,90: 23,91: 18, \end{aligned}$ | $\begin{gathered} \text { decided }[4]-35: 15 \\ 36: 7,36: 11,36: 19 \end{gathered}$ | 76:20 |



| 99:6, 102:9, 114:4 | $3: 2$ | FIREMEN'S ${ }_{[1]}-1: 3$ | 76:1 | 5:13 |
| :---: | :---: | :---: | :---: | :---: |
| expectation [1] | feedback [1] - 103:4 | First [2]-4:7, 18:1 | 76:22 | forward [7]-87:10, |
|  | 2]-20:22, 21 | first [30] - 14:12, 15:7 | FO | 14, 101 |
| $\begin{aligned} & \text { expectations [1] - } \\ & 96: 15 \end{aligned}$ | $\begin{gathered} \text { few }[4]-31: 17,42: 1, \\ 83: 23,101: 20 \end{gathered}$ | $\begin{aligned} & 17: 15,22: 7,22: 9 \\ & 22: 10,22: 11,22: 12 \end{aligned}$ | foregoing ${ }_{[1]}-120: 11$ format [1] - 109:6 | $\begin{aligned} & \text { 110:6, 110:10, } \\ & \text { 117:13 } \end{aligned}$ |
| expected [7] - 92: | duciaries [1] | , 24:4, | Formula [1] - 7:21 | ]-25:21 |
| 99: | 72:4, 75:18 | 9, 43:4, 43:1 | forth [5]-6:23, 30:13, | fourth [4]-39:13, |
| 100:10, 101:3, 10 | file [3]-50:17, 74:18, | 20, 44:1, 47:10 | 47:3, 52:23, $72: 3$ | 39:18, $75: 7$ |
| $\begin{aligned} & \text { expecting [3] - 95:21, } \\ & 105: 6,106: 6 \end{aligned}$ | 111:5 | 20, 52:15, 52:11 | FORTUNA [151] - 2:3, | fracture [6] - 72:4, |
| expenditures | fill | , 97:19, 98:8 | 5:16, 5:20, 5:23, 6:3, | 17, 75:18 |
| 106:9 | filling [1] - 43:5 | 6:21, 108:23 | 6:5, 6:8, 6:10, 6:12, | fractures [2] - 75:10 |
| Expe | nal [2] - 103:8 | 4, 115:11 | 6:14, 7:3, 7:7, 7:9, | frame [1] - 80:2 |
| 7:19, 108: | 116:20 | [1] - 95:20 | 7:12, 7:14, 7:16 | ee [1] - 81:21 |
| $\begin{aligned} & \text { experience }[8] \text { - } \\ & 38: 15,46: 13,46: 17, \end{aligned}$ | $\begin{aligned} & \text { finalize [2] - 109:22, } \\ & 116: 2 \end{aligned}$ | $\begin{gathered} \text { Fisher }[3]-38: 18 \\ 39: 3,58: 16 \end{gathered}$ | $\begin{aligned} & 7: 18,8: 1,8: 6,8: 8, \\ & 8: 11,8: 13,8: 15, \end{aligned}$ | $\begin{aligned} & \text { frequently }[2]-72: 21, \\ & 88: 10 \end{aligned}$ |
| $\begin{aligned} & \text { 53:17, 61:20, 101:3, } \\ & 103: 18,109: 4 \end{aligned}$ | finally [2] - 19:2, 40: | $\begin{gathered} \text { fit }[4]-62: 23,63: 1 \\ 63: 2,81: 16 \end{gathered}$ | $\begin{aligned} & 8: 17,8: 23,9: 3,9: 5, \\ & 9: 8,9: 10,9: 12,9: 1 \end{aligned}$ | Friday [1] - 72:22 |
| experiencing |  | ess [1] - 37 : | 9:21, 10:1, 10:3, | 44:14, 112:7 |
| 33:22, 37:23, 38:2, | findings [2]-61:6 | five [13]-15:9, 15:14, | 10:6, 10:8, 10:10, | ontier [1]-101: |
| 20, 72:3 | 85:19 | 21, 34:1 | 10:18, 10 | ustration [1] - 112 |
| expertise [1] - 85:2 | $\begin{gathered} \text { Findings }[6]-67: 5, \\ 79: 2,79: 5,79: 9, \\ 79: 13,79: 18 \end{gathered}$ | $\begin{aligned} & \text { 69:1, 81:5, 83:18, } \\ & 88: 9,102: 18, \end{aligned}$ | $\begin{aligned} & \text { 10:24, 11:3, 11:5, } \\ & \text { 11:7, 11:9, 11:16, } \end{aligned}$ | llil [1] - 105:10 |
| expires [1]-81:13 |  |  |  | function [2]-50:7 |
| explain [3] - 20:4, |  | 103:17, 103:1 | $12: 3,12: 5,12: 7,$ | 74:4 |
| 54:2, 67:21 | fine [5] - 24:16, 46:10, | fix [1] - 102:15 <br> fixed [8] - 92:23, |  | unctions [1] - 44: |
| explained ${ }_{[1]}-21: 2$ | $\begin{gathered} 57: 5,60: 13,110: 24 \\ \text { finish }[2]-38: 7,49: 13 \end{gathered}$ |  | $\begin{aligned} & \text { 12:17, 12:21, 12:23, } \\ & \text { 13:2, 13:4, 13:6, } \end{aligned}$ | UND [1] - 1:3 |
| explaining ${ }_{[1]}-68: 6$ |  | $\begin{aligned} & \text { fixed }[8]-92: 23, \\ & 93: 21,94: 2,94: 10, \end{aligned}$ |  | Fund [12]-2:17, 6:2 |
| explore [1] - 19:11 | $\begin{aligned} & \text { finished }[3]-17: 2, \\ & 29: 19 \\ & \text { fire }[3]-20: 13,31: 19, \end{aligned}$ | $\begin{aligned} & 96: 9,98: 7,98: 24, \\ & 101: 18 \end{aligned}$ | $\begin{aligned} & \text { 13:8, 13:17, 13:22, } \\ & 13: 24,14: 3,14: 5, \end{aligned}$ | 15:2, 42:1, 68:17, |
| exposure [2] - 94:22, $103 \cdot 16$ |  | $\begin{aligned} & \text { flag }_{[1]}-115: 12 \\ & \text { flap }_{[1]}-75: 8 \end{aligned}$ | 13.24, 14.3, 14.5, | 80:21, 81:22, 84:11, |
|  |  |  |  | 84:15, 93:24, 111:9, |
| extended [2] - 47:5, | Fire [19] - 16:13, | $\text { flare }[14]-53: 5,53: 11 \text {, }$ | 41:12, 41:15, 48:4, <br> $48 \cdot 7,56 \cdot 9,64 \cdot 10$ |  |
| 47 |  | 53:15, 53:21, 55:2, | 64:13, 64:15, 64:17, | 93:2 |
| extent [2]-55:13, | $\begin{aligned} & \text { 17:24, 20:2, 22:13, } \\ & 32: 11,36: 15,42: 16, \end{aligned}$ | $\begin{aligned} & 55: 6,55: 24,58: 7, \\ & 58: 8,58: 13,58: 20, \end{aligned}$ | $\begin{aligned} & \text { 64:19, 64:21, 64:23, } \\ & 65: 1,65: 12,65: 16, \end{aligned}$ | 100:23, 104:5 |
| 91 | $\begin{aligned} & 32: 11,36: 15,42: 16, \\ & 70: 15,71: 17,72: 7, \end{aligned}$ |  |  | $\begin{gathered} \text { Fund's }[6]-3: 7,3: 13, \\ 33: 5,69: 20,87: 5 \end{gathered}$ |
| extra [1] - 83:19 | $\begin{aligned} & 76: 1,76: 20,76: 24, \\ & 80: 3,81: 9,81: 10, \end{aligned}$ | 58:8, 58:13, 58:20, <br> 60:6, 60:7, 61:11 | $\begin{aligned} & 65: 1,65: 12,65: 16, \\ & 65: 18,65: 20,65: 22, \end{aligned}$ |  |
|  |  | flare-up [7]-53:15, <br> $58: 7,58: 8,58: 13$, | 66:13, 66:15, 66:17, | funded [18]-89:2, |
|  |  | $\begin{aligned} & 58: 7,58: 8,58: 13, \\ & 58: 20,60: 6,60: 7 \end{aligned}$ | $66: 19,66: 21,66: 23$ |  |
| $\begin{gathered} \text { FABF }_{[5]}-87: 17,93: 6, \\ 110: 1,111: 18 \end{gathered}$ | Firefighter [29] 14:13, 14:22, 17:11 | flaring [1] - 58:8 | 68:13, 71:12, 73:10, | $90: 12,90: 14,90: 16,$ |
|  | 14:13, 14:22, 17:11, 18:1, 31:23, 32:1, | flexion [1] - 25:1 | 76:5, 76:8, 77:12, | 90:18, 91:6, 91:10, |
| facility [2] - 36:21, | 32:2, 43:17, 43:19, |  | 77:17, 77:19, 77:21, | 94:15, 102:2, |
| 37:16 | 45:17, 45:23, 46:10,$48: 8,50: 15,51: 9$ | flipping [1] - 26:5 | 77:23, 78:1, 78:3, <br> $78 \cdot 9,78 \cdot 13,78 \cdot 15$ | $\begin{aligned} & \text { 102:10, 102:23, } \\ & \text { 104:6 } \end{aligned}$ |
| facing $[1]-44: 15$ |  | floor [1]-20:20 | 78:9, 78:13, 78:15, |  |
| $\begin{gathered} \text { Fact }[6]-67: 5,79: 2, \\ 79: 5,79: 9,79: 14, \end{gathered}$ | $\begin{aligned} & \text { 54:8, 60:18, 63:7, } \\ & \text { 65:9, 66:6, 68:11, } \\ & 70: 16,75: 2,77: 10, \\ & \text { 80:1, 80:6, 80:17, } \\ & 81: 1,81: 16 \end{aligned}$ | $\begin{aligned} & \text { flow }[8]-87: 12,89: 22, \\ & 92: 5,92: 7,92: 9, \\ & 101: 19,102: 5,103: 1 \end{aligned}$ | 78:23, 79:8, 79:13, | $\begin{aligned} & \text { funding }[2]-88: 1 \text {, } \\ & 88: 12 \\ & \text { fusion }[1]-39: 22 \\ & \text { future }[3]-88: 7,89: 6, \\ & 112: 5 \end{aligned}$ |
| 79:5, 79:9, 79:14, 79:18 |  |  | 82:23, 83:1, 83:3, |  |
| fact ${ }_{[1]}$ - $60: 19$ |  | flowing [1] - 114:10 |  |  |
| factor $[1]$ - 101:22 |  | $\begin{aligned} & \text { flows [2] - 84:3, } \\ & \text { 106:13 } \end{aligned}$ | 83:5, 99:15, 104:1 105:17, 106:1, |  |
| factors [1] - 96:16 <br> fair ${ }_{[1]}-62: 15$ | firefighter [4] - 59:1, <br> 59:3, 59:16, 62:20 | folks [2] - 1 | 107:13, 107:23, |  |
| $\text { fairly }{ }_{[1]}-92: 24$ | 59:3, 59:16, 62:20 <br> firefighters [1] - 31:12 |  | 108:7, 108:11, |  |
| fall ${ }_{[1]}$ - 115:9 | $\begin{aligned} & \text { firefighters' [1] - } \\ & 47: 13 \end{aligned}$ <br> firehouse [2] - 44:15, |  | 108:13, 108:15, | $\begin{aligned} & \text { Gabapentin }[4] \text { - } \\ & 38: 16,38: 17,38: 19 \text {, } \\ & 38: 23 \end{aligned}$ |
| s [2] - 109:3, 116:7 |  | 74:15, 112:23 | 115:3, 115:13, |  |
| iliar [1] - 43:17 |  | follows [5] - 17:1 | $\begin{aligned} & \text { 115:3, 11:173, } \\ & \text { 116:10, } \end{aligned}$ |  |
| fantastic [1]-104:21 | $\begin{aligned} & \text { firehouse [2] - 44:15, } \\ & 45: 10 \end{aligned}$ | $\begin{aligned} & \text { 42:10, 49:21, 70:11, } \\ & 73: 18 \end{aligned}$ | 117:24, 118:2, | garden [1] - 34:10 <br> Gary [3]-84.20, 85•3 |
| $\begin{gathered} \text { far [4] - 34:22, } 57: 20, \\ 80: 21,113: 6 \end{gathered}$ | fireman [2]-44:10, $46 \cdot 7$ | 73:18 <br> followup [4]-25:23, | 118:4, 118:6, 118:8, | $\begin{aligned} & \text { Gary [3] - 84:20, } 85: 3, \\ & 85: 8 \end{aligned}$ |
| favor [1]-119:4 | firemen [2] - 30:24, | foot $[7]-72: 5,75: 1$, | 118:15, 118:23, | gear [2]-47:13 |
| favorable [1] - 90:17 | 44:19 |  | 119:3, 119:6 | Geiger [1] - 72:22 |



| $\begin{gathered} \text { Investment }[6]-2: 16, \\ 83: 8,86: 1,93: 7, \\ \text { 104:7, 105:1 } \\ \text { investments }[12]- \\ 83: 19,87: 23,91: 21, \end{gathered}$ | ```Juneteenth [2]- 116:2, 116:7 jurisdiction [1] - 3:20 justify [1] - 99:4``` | $\begin{aligned} & \text { lay }[3]-28: 2,35: 3, \\ & 35: 4 \\ & \text { layup }[8]-18: 3,20: 2, \\ & 24: 16,40: 12,40: 20, \\ & 51: 18,70: 18,73: 1 \end{aligned}$ | 55:23, 56:1, 56:5, <br> 58:4, 58:5, 58:6, <br> 58:20, 59:10, 59:22, <br> 60:6, 60:22, 61:8, <br> 61:16 | $\begin{aligned} & 98: 19,105: 19, \\ & \text { 110:18 } \\ & \text { LORNA }[1]-2: 16 \\ & \text { losses }[2]-98: 12 \\ & \text { lost }[1]-48: 17 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 91: 22,92: 13,94: 3, \\ & 94: 16,99: 20, \end{aligned}$ | K | $\begin{array}{r} \text { least }[7]-15: 9,15: 13, \\ 21: 21,21: 22,58: 18, \end{array}$ | $\begin{aligned} & \text { limitations }[3]-33: 21, \\ & 37: 23,72: 2 \end{aligned}$ | $\begin{aligned} & \text { Iow [4]-55:2, 55:21, } \\ & 96: 7,100: 6 \end{aligned}$ |
| $\begin{aligned} & \text { 100:24, 101:21, } \\ & \text { 102:22, 103:17 } \end{aligned}$ | Kathy ${ }_{[1]}-113: 19$ <br> keep $[7]-6: 21,6: 22$, <br> $75: 12,94: 2,102: 19$, <br> 109:18, 112:2 <br> keeping $[1]-110: 10$ <br> KELLER $_{[1]}-108: 23$ <br> KELLY $_{[1]}-2: 15$ <br> Kelly $[3]-108: 22$, <br> $116: 15,118: 16$ <br> Kevin $_{[1]}-12: 15$ <br> key $[2]-86: 9,112: 4$ <br> kicking $[1]-26: 4$ <br> kind $[19]-30: 17,34: 9$, <br> $39: 20,41: 4,47: 7$, <br> $53: 15,86: 9,87: 11$, <br> $89: 22,91: 8,93: 1$, <br> $99: 4,99: 13,100: 3$, <br> 102:20, 103:23, <br> 105:2, 106:13, <br> 106:14 <br> knee $[1]-27: 8$ <br> known $[1]-72: 5$ <br> knows $[1]-118: 11$ <br> Knox $[1]-25: 16$ <br> kudos $[3]-109: 19$, <br> 110:9, 111:16 | 69:1, 77:3 | limited [1] - 34:7 | lower [17]-22:18, |
| involved ${ }_{[1]}-83: 16$ |  | 63:23, 107:20 | 15:10, 17:8, 41:18, | 24:3, 24:5, 25:1, |
| involves [1] - 103:12 |  | leaving [2] - 48:2 | 46:9, 48:19, 70:3, | 28:18, 30:11, 34:24, |
| involving [1] - 28:8 |  | 06:10 | 90:4, 90:7, 97:3 | 5:18, 51:17, 52:1, |
| irrevocable ${ }_{[1]}$ - |  | left $[7]-24: 20,3$ | Line [1] - 14:21 | 54:22, 89:14, 97:8, |
| 103:22 |  | 7:21, 72:5, 75:1 | liquid [7] - 86:23, | 99:5 |
| ish [1] - 90:4 |  | 75:7, 75:10 | 87:14, 91:21, 91:22, | [1] - 2:13 |
| issue [4]-25:1, 36:18, |  | leg [8]-21:3, 2 | 93:1, 101:21, 101:23 | ck [2]-79:19, 82:8 |
| 61:14, 63:15 |  | 34:23, 55:3, 55:4 | list ${ }_{[1]}$ - 114:21 | lumbar [1]-52:2 |
| IT [1] - 110:13 |  | 55:5, 75:10 | listed [1] - 13:13 | LUND [1]-2:16 |
| item[1] -6:16 |  | Legal [1]-118:1 | listening [1] - 60:1 | lunges [1] - 35:20 |
| Item [1] - 10:14 |  | legal [1] - 80:1 | live ${ }_{[1]}$ - 41:6 |  |
| Items [1] - 4:8 |  | lending $[1]-84: 3$ | lived [1] - 71:5 | M |
| items ${ }_{[1]}-114: 19$ |  | less [9] - 46:16, 86:23, 87:14, 91:21, 91:22, | location [1]-37:9 |  |
| itself [1]-38:1 |  |  | 75:3 | 73: |
|  |  | 101:2 | long-term [2]-85:15, | machines [2] - 37:19 |
|  |  | lesser [1]-91: | 103:17 | mail [2] - 67:4, 79:17 |
| $\begin{aligned} & \text { Jackie }[4]-105: 22, \\ & \text { 107:14, 107:16, } \\ & \text { 110:9 } \\ & \text { Jackie's }[1]-109: 21 \\ & \text { JACLYN }_{[1]}-2: 17 \\ & \text { January }[3]-107: 7, \\ & \text { 107:9, 110:4 } \\ & \text { Jim }[1]-72: 22 \\ & \text { Jitsu }[14]-25: 3, \\ & 25: 24,26: 20,26: 24, \\ & 27: 3,27: 5,27: 7, \\ & 27: 10,27: 20,40: 19, \\ & 40: 22,41: 4,41: 5, \\ & 41: 8 \end{aligned}$ |  | letter [1] - 112:2 | look [16] - 39: | mailing [4]-113:5, |
|  |  | level [14]-34:17, 52:5, | :11, 60:4, 86:13, | 117:2, 117:14, |
|  |  | 58:17, 87:21, 88:24, | :14, 88:22, 97:22, | 7:17 |
|  |  | 91:4, 93:18, 96:24, | 106:9, 106:20, | Mailing [2]-117: |
|  |  | 97:8, 97:15, 98:3, | 66:24, 109:6, | 7:12 |
|  |  | 98:4, 99:9, 101:5 | 09:7, 113:2 | maintain [1] - 47 |
|  |  | levels [5]-52:2, 61:1, | 115:4, 115:15, | major [1] - 88:11 |
|  |  | 88:4, 89:21, 95:10 | 116:21 | manage [1]-110:1 |
|  |  | $\begin{gathered} \text { liabilities }[7]-87: 24, \\ 88: 6.89: 4.90: 1 . \end{gathered}$ | $\begin{gathered} \text { looked [3] - 24:15, } \\ 25: 8.110: 20 \end{gathered}$ | $\begin{aligned} & \text { management }[1] \text { - } \\ & 25: 20 \end{aligned}$ |
|  |  | 90:11, 102:17 | looking [9] - 32:3, | mandatory [1] - 111:4 |
|  |  | 102:1 | 70:23, 82:1, 87:23, | manipulate ${ }^{[1]}$ - $26: 3$ |
|  |  | Liability [6] - 83:13, | 101:4, 104:5, | manual [2] - 58:15 |
|  |  | 83:17, 85:4, 87:7, | 113:13, 113:17 | March [6]-23:19, |
| $\begin{aligned} & \text { Jiu }[14]-25: 3,25: 24, \\ & 26: 19,26: 24,27: 3, \\ & 27: 5,27: 7,27: 10, \\ & 27: 20,40: 19,40: 22, \\ & 41: 4,41: 5,41: 8 \end{aligned}$ |  | 87:21, 88:14 | 113:24 | 26:8, 26:23, 40:22, |
|  |  | liability [3] - 88:20 | looks [4]-107:15, | 98:16, 99:23 |
|  |  | 90:9, 91:5 | 109:5, 113:5, 113:12 | MARK ${ }_{[1]}-2: 18$ |
|  |  | License [1] - 120:1 | Lopez [20]-68:11, | marked [2]-50:18, |
|  |  | lidocaine [1] - 30:17 | 68:13, 68:15, 68:20, | 74 |
| $\begin{gathered} \text { job [11] }-40: 14,59: 2, \\ 59: 6,62: 23,68: 7, \end{gathered}$ |  | lieutenant [3] - 22:4, | 68:22, 70:5, 70:14, | market [5] - 84:3 |
|  |  | 22:6, 24:14 | 74:16, 75:2, 76:10, <br> 76:20, 77:10, 79:11 | 84:9, 89:8, 90:8, |
| $\begin{aligned} & \text { 91:16, 102:22, } \\ & \text { 103:3, 104:21, } \end{aligned}$ |  | Lieutenant [1]-22:4 | $\begin{aligned} & 76: 20,77: 10,79: 11, \\ & 80: 2,80: 6,80: 13, \end{aligned}$ | $\begin{aligned} & \text { 98:8 } \\ & \text { markets [1] - 92:2 } \end{aligned}$ |
| 109:17, 109:19 |  | lift [1] - 59:3 | 80:17, 81:2, 81:16, | Markets [1] - 84:21 |
| jobs [1] - 40:16 |  | lifted [3]-20:20 | 81:21 | Marlin [1] - 43:9 |
| JOHN [1] - 2:17 |  | 51:11, 63:3 | LOPEZ $_{[14]}$ - 68:14, | MARY ${ }_{[2]}-2: 11,2: 13$ |
| $\begin{aligned} & \text { Johnny }[2]-14: 23, \\ & 17: 21 \end{aligned}$ |  | $\begin{aligned} & \text { lifting [13] - 23:6, } \\ & 23: 10,31: 19,31 \end{aligned}$ | $\begin{aligned} & 69: 4,69: 9,69: 15, \\ & 70: 1,70: 9,76: 13, \end{aligned}$ | Mary [2] - 68:5, 81:19 <br> mask [12] - 20:9, |
| JOHNNY ${ }_{[1]}-17$ |  | 10, | 76:21, 77:2, 79:12, |  |
| joined [1]-84:20 |  | 52:22, 53:2, 61:12 | 79:21, 80:8, 81:24, | :4, 31:7, 44: |
| Jones [2] - 72:5, 75:17 |  | 61:13, 62:6, 63:5 | 82:9 | 10, 44:11, 44:18, |
| journal [7] - 19:8, |  | lifts [1] - 35:20 | LORI ${ }_{[1]}-2: 16$ | 44:20, 62:20 |
| 43:8, 45:5, 45:7, |  | likely [17] - 53:20 | Lorna [7]-83:9, | material [1]-117:11 |
| 45:11, 45:16 |  | 53:21, 55:18, 55:22, | 84:19, 85:11, 88:8, | MATTER $_{[1]}-1: 7$ |




| 61:20, 63:12 | 90:14, 90:16, 91:6, | pick [1] - 58:22 | 86:10 | President [8]-2:3, |
| :---: | :---: | :---: | :---: | :---: |
| painful ${ }_{[1]}$ - 98:12 | 91:10, 92:21, 92:23, | picture ${ }_{[1]}$ - 111:8 | police [1] - 114:8 | 3:24, 66:4, 68:10, |
| Palos [1] - 72:20 | $98: 17,99: 3,100: 16,$ | piece [3]-115:23, | policy [4] - 78:7, | $77: 8,78: 5,105: 21$, |
| pandemic [2]-50:23, | 102:10, 102:12 | pinched [1]-60 |  | president [2] |
| 74:12 | 104:6, 104:12 | PINELLI [58]-2:13, | 104:7, 117:8, 117:13 | 83:7 |
| paper ${ }_{[1]}$ - 95:17 | 113:14, 114:5 | 4, 14:14, 14:17 | pop [1] - 45:18 | press [1] - 114:4 |
| paperwork [3] - 13:15, | perform [4]-50:7 | 4:20, 15:18, 15:23, | portfolio [10]-83:21, | pretty [7]-26:6, |
| 60:4, 60:9 | 74:4, 76:1, 94:8 | 7, 17:1, 17:7, | 86:23, 87:17, 87:24, | 57:22, 58:13, 91:18, |
| $\begin{aligned} & \text { Park }[4]-28: 11, \\ & 29: 17,51: 5,55: 1 \end{aligned}$ | performance [4] - <br> 84:1, 84:6, 94:6, | $\begin{aligned} & \text { 17:10, 17:18, 18:16, } \\ & \text { 18:22, 19:1, 41:9, } \end{aligned}$ | $\begin{aligned} & 96: 22,97: 17,99: 2, \\ & 100: 11,100: 15, \end{aligned}$ | $97: 18,106: 2,106: 3$ <br> preventing [2] - 71:21, |
| part [8] - 18:14, 27:22, | $96: 12$ | 41:16, 41:20, 41:2 | $\begin{aligned} & \text { 100:11, 100: } \\ & \text { 102:15 } \end{aligned}$ | preventing [2] - 71:21, 72:14 |
| 5, 62:23, 88:19, | performed [2] - 75:22, | $5,42: 12$ | portfolios [1] - 99:6 | prevention [2]- |
| 103:24, 110:7, | 94: | :8, 48:1 | portion [3] - 83:8, | 110:12, 111: |
| 112:10 | period [2]-80:14 | 8:19, 48:2 | 105:21, 106:16 | previously [3] - 49:18, |
| Partial ${ }_{[2]}$ - 11:11, | 101:15 | 49:1, 49:7, 49:12, | position [3]-89:23, | 73:15, 79:1 |
| 11:13 | periods [1]-34:6 | 56:12, 60:10, 61:21, | 95:8, 96:7 | primarily ${ }_{[1]}$ - 102:21 |
| participants [1]-89:9 | peripheral ${ }^{11]}$ - 75:3 | 6:12, 60:10, 61:21, | positive [4]-89:22, | printer [1]-117:10 |
| participate [1] - 113:1 | permanent $[7]-53: 18$, | 63:6, 63:21, 64:1, | 92:4, 98:22, 102:7 | private [10]-84:3, |
| $\begin{gathered} \text { particular }[4]-22: 3, \\ 40: 1,94: 1,99: 20 \end{gathered}$ | $\begin{aligned} & 53: 22,55: 20,56: 6, \\ & 58: 6,60: 22 \end{aligned}$ | $\begin{aligned} & 1: 5,68: 15,69: 5, \\ & : 10,69: 16,70: 2, \end{aligned}$ | positively ${ }_{[1]}$ - 32:7 | 86:24, 93:2, 95:3, |
| parts [1]-26:4 | Permission [1] - 12:12 | $: 5,70: 13,71: 8,$ | possibility [3] - 54:10, | 100:6, 100:18, |
| pass [1] - 109:1 | persistent ${ }_{[1]}$ - 34:24 | 16, 73:8, 73:13 | 87:14, 98:12 | 103:14 |
| past [5] - 93:23, 94:4, | person [1] - 113:18 | 20, 76:3, 76:10 | possible [3]-55:11 | problem [12] - 56:4, |
| 95:1, 100:5, 107:10 | personnel [1] - 31:19 | 6:19, 76:22, 77:7 | 96:24, 103:3 | 56:6, 60:5, 60:23, |
| Pat [2] - 68:5, 81:19 patch [2]-30:16, | $\begin{aligned} & \text { perspective }{ }_{[1]} \text { - } \\ & 90: 17 \end{aligned}$ | Pinelli ${ }^{[2]}$ - 42:3, 68:1 <br> pinpoint ${ }_{[1]}$ - 72:13 | $\begin{gathered} \text { possibly }[4]-54: 11, \\ 55: 4,59: 21,104: 24 \end{gathered}$ | $\begin{aligned} & 62: 16,62: 18,62: 19, \\ & 72: 13,82: 6,96: 3, \end{aligned}$ |
| 30:17 | Peters [19]-16:12 | piriformis [2]-23:23, | posted [1]-3:8 | 101:14, 102:15 |
| path [1]-102:2 | 17:8, 17:10, 33:5, | 24:24 | posture [1]-59:19 | problems [2] - 56:3, |
| PATRICIA [1] - 2:13 | 33:24, 49:17, 50:1, | place [6] - $36: 12$ | pound [1]-58:23 | 75:21 |
| pause [2]-91:13, | 56:10, 56:13, 58:3, | :12, 46:8 | pounds [7]-23:14, | procedure [3]-39:10, |
| 99:12 | 60:11, 60:15, 63:4 | 62:21, 86:4 | 46:12, 46:13, 46:16, | 50:14, 74:15 |
| pay [6] - 40:7, 89:3, | 69:20, 70:2, 70:6, | placed [2]-23:8, 47:3 | 53:8, 53:9 | procedures [5] - 16:7, |
| 89:5, 90:2, 91:4, | 72:11, 73:14, 73:2 | placing [1] - 86:1 | precluded [1] - 76:15 | 16:20, 69:16, 69:24, |
| 91:5 | PETERS ${ }_{[6]}$ - 2:18, | plan [17]-44:21, | dict [1] - 98:2 | 112:24 |
| paying [1] - 92:1 | 17:9, 49:19, 60:17 | 7:8, 87:9 | prednisone [1] - 30:16 | proceed [5] - 15:21, |
| $\begin{array}{r} \text { payments [4] - 40:23, } \\ 40: 24,106: 8,107: 2 \end{array}$ | $\begin{aligned} & \text { 70:4, 73:16 } \\ & \text { phenomenon } \end{aligned}$ | $\begin{aligned} & 88: 16,89: 9,89: 16, \\ & 89: 20,89: 24,92: 11, \end{aligned}$ | $\begin{aligned} & \text { Prednisone }[1] \text { - } \\ & 58: 12 \end{aligned}$ | $\begin{aligned} & 17: 8,67: 12,69: 7 \text {, } \\ & 69: 19 \end{aligned}$ |
| Payments [2] - 11:12, | 90:3 | 3:9, 94:6, 94:21, | preemptively ${ }^{11}$ | proceeded [1] - 33:17 |
| 11:13 | phone [3]-43:8 | :7, 104:24, 114:4, | 116:7 | proceeding [1] - 3:11 |
| payroll [3]-35:11, | 50:22, 54:18 | 114:13 | preliminary [5] - 15:5 | PROCEEDINGS [2] - |
| 40:5, 110:5 | physical [27] - $35: 10$ | plan's [4] - 90:5, | 68:18, 83:12, 92:15, | 1:10, 119:9 |
| peer $[1]-100: 5$ | 35:12, 35:14, 35:17, 35:18, 35:19, 35:22, | $\begin{aligned} & \text { 90:23, 101:7, 103:1 } \\ & \text { planned [1]-113:8 } \end{aligned}$ | 99:13 | proceedings [2] - <br> 120:10, 120:13 |
| pending [3]-80:2, 80:18, 117:11 | 35:18, 35:19, 35:22, 36:4, 36:12, 36:14, | planning [1] - 105:3 | prepared $[1]$ - 3:11 | $\begin{gathered} 120: 10,120: 13 \\ \text { process }[6]-86: 2, \end{gathered}$ |
| pension [6] - 86:15, | $36: 20,36: 23,37: 1$ | plans [10]-54:11, | [17]. | $86: 22,88: 19,89: 18$ |
| 89:1, 92:6, 93:4, | 4, 37 | 1, 92:6 | $\text { 14:16, 15:8, } 16$ | 94:19, 112:1 |
| 93:9, 94:12 | 15, 37:18, 37:22 | :4, 93:15, 94:13 | 5, 16:14, 19:3 | professional [1] - |
| Pension [6] - 15:2, | 38:1, 38:3, 38:5 | 5:21, 100:6, 114:24 | 1:18, 31:24 | 60:23 |
| 15:15, 41:24, 67:23, | 8, 38:11, 40:18 | plastic [1] - 75: | :4, 62:1, 67:10, | program [1] - 37:14 |
| $68: 16,80: 21$ | 61:1 | play [1]-25: | $3: 23,69: 11,72: 14,$ | progression [4] |
| pensionable [2] | physically [5] - $3: 6$, | playing [1] - 96:16 | 108:22 | 52:9, 55:15, 57:23, |
| $80: 4,80: 22$ | 59:2, 62:23, 63:1, | pleased [1] - 83:14 | presentation [5] | 58:3 |
| people [3]-4:1, 4:21, | 63 | nt [15] - 32:16 | 3:24, 64:3, 85:1 | project [1] - 90 |
| 59:24 | physician [6] - 16:12 | 0:3, 63:7, | 90:23, 104:21 | projected [1]-104:9 |
| Peoples [2]-31:23, | $\begin{aligned} & 50: 2,54: 9,55: 1, \\ & 69: 20,73: 23 \end{aligned}$ | $: 13,63: 14,76: 15,$ | presented [2]-108:5, | projection [1] - 90:5 <br> projections [2]- |
| 32:2 | Physician [1]-2:18 | :6, 92:9, 103:4, | 117:18 | projections [2] - |
| per [1]-15:15 percent [24]- | physician's [1] - 82:13 | 117:7, 117:10 | ting [1] - | 95:13, 101:19 <br> projects [1] - 85:1 |
| 84:15, 89:12, 89:15, | physicians[1] - 60:24 | points [2]-61:22, | $58: 1$ | proof [4]-16:1, 16:4, |


| 69:11, $69: 14$ |
| :--- |
| proper $[1]-37: 21$ |
| properly $[2]-20: 13$, |
| 20:14 |
| proposed $[4]-79: 2$, |
| 103:9, 114:5, 116:15 |
| protect $[2]-112: 8$, |
| 112:15 |
| protection $[1]-100: 3$ |
| protective $[1]-75: 12$ |
| provide $[2]-105: 23$, |
| $114: 7$ |
| provided $[6]-18: 5$, |
| $45: 7,51: 1,54: 17$, |
| $54: 24,74: 21$ |
| provider $[1]-113: 12$ |
| provides $[1]-44: 11$ |
| Public $[4]-3: 1,3: 5$, |
| $3: 14,3: 15$ |
| public $[15]-3: 18$, |
| $3: 21,86: 14,86: 20$, |
| $89: 1,93: 3,93: 8$, |
| $93: 14,93: 15,93: 19$, |
| $94: 10,94: 12,94: 21$, |
| $95: 21$ |
| publicly $[3]-92: 21$, |
| $96: 15,100: 22$ |
| pull $[1]-98: 13$ |
| pulled $[1]-20: 16$ |
| punching $[1]-26: 5$ |
| purposely $[1]-57: 15$ |
| pursuant $[1]-64: 8$ |
| put $[12]-20: 18,20: 21$, |
| $59: 4,75: 8,80: 19$, |
| $81: 17,91: 21,94: 15$, |
| $97: 12,98: 23$, |
| $110: 11,116: 19$ |
| putting $[1]-53: 4$ |
|  |


| 104:18, $105: 4$, |
| :--- |
| 105:18, 107:12, |
| 107:13, 107:14, |
| $114: 3$ |
| quick $[2]-4: 20,106: 2$ |
| quickly $[1]-4: 23$ |
| quite $_{[1]}-113: 19$ |
| quorum $[4]-5: 15$, |
| $15: 7,109: 11,118: 13$ |

rack [1] - 20:22 radiating [3]-28:18, 53:23, 61:18 radiation [1] - 55:3 radicular ${ }_{[1]}-55: 21$ radiofrequency ${ }_{[3]}$ 39:4, 39:8, 54:10
raise [3]-17:11, 42:6, 70:6
rank [3]-17:23,
42:16, 70:14
rate [1] - 96:1
rates [1] - 96:7
rating ${ }_{[1]}$ - 113:21 ratio [3]-89:3, 89:12, 90:10
rationale [1] - 43:9
reach [6]-55:11,
67:19, 76:24, 84:5, 91:6, 111:1
reached [2]-20:21, 117:6
reactions [1] - 103:5
read ${ }^{2}$ 2 - 58:14, 58:15
reading ${ }_{[1]}-45: 13$
readjust [1] - 20:17
ready [4]-17:7, 20:14,
47:11, 76:23
real [3]-86:24, 93:1, 94:22
realized [1] - 29:21
really [26] - 34:23,
43:14, 44:21, 60:12,
61:6, 62:11, 72:12,
76:19, 83:20, 87:20,
88:13, 88:23, 94:5,
94:9, 94:11, 94:18,
95:5, 95:8, 95:19,
96:12, 97:4, 98:20,
98:24, 100:1,
102:17, 112:14
reason [3]-28:16, 28:21, 44:17
reasonable [2]-3:15, 55:12
Recalculations [1] 12:10 receipts [5] - 106:15,

106:19, 106:23, 107:4, 107:7
receivables [1] - 89:7
receive $[5]$ - 15:14, 18:7, 69:2, 70:21, 81:3
received ${ }_{[2]}-18: 8$, 113:3
receiving ${ }_{[1]}-106: 15$
recently [1] - 95:17
recognize [1]-112:5 recollection [3] - 44:7, 46:1, 46:2
recommend [2] -
88:10, 99:9
recommendation [4] -
54:12, 92:15, 103:8, 117:16
recommendations [4] -6:20, 82:13, 99:14, 103:6
recommended [1] 39:3
recommending [3] -
54:6, 96:17, 97:20
record [17] - 3:6,
14:20, 15:3, 15:18, 17:19, 18:13, 19:7,
21:9, 42:14, 45:6, 54:1, 63:22, 65:5, 68:19, 69:5, 71:4, 111:10
recorded [2]-3:10, 55:1
records [21]-23:19, 28:10, 28:17, 32:11, 32:15, 32:19, 32:20,
32:23, 33:2, 33:3,
39:3, 40:24, 50:11,
51:2, 51:14, 51:16,
54:13, 54:14, 54:17, 74:8, 74:22
recovery ${ }_{[1]}-75: 23$
red [1] - 90:4
reduce [2] - 98:6,
103:20
reducing [1] - 94:21
reduction [1] - 100:22
reevaluate [2]-94:10,
103:19
reexam [1] - 78:9
reexams [1] - 78:6
refer ${ }_{[1]}$ - 32:12
referring [1]-22:22
reflect [3] - 14:20, 63:22, 74:16
reflected [1] - 116:9
reflecting ${ }_{[1]}$ - 115:2
reflects [2] - 86:4,
115:1
reflexes [1] - 75:12
Refunds [2] - 9:16, 9:18
regard ${ }_{[1]}$ - 111:16
regarding [2]-61:5, 87:4
regardless [1] - 53:13
regressing ${ }_{[1]}-36: 17$
regular $[8]-3: 17,4: 9$,
4:10, 21:18, 25:20,
30:7, 36:5, 91:2
regularly [2]-26:10, 60:4
reinforcing ${ }_{[1]}-85: 11$
related $[4]-23: 24$,
60:21, 84:1, 85:13
relationship [1] -
80:21
relative [2]-89:4, 103:10
released [1] - 30:18
relevant [1] - 3:20
relieve ${ }_{[1]}-38: 24$
rely [1] - 102:21
remain [1]-84:14
remainder [3]-6:22, 106:20, 107:11
remains [1]-81:6
remember [5] - 43:7,
43:13, 43:23, 47:23, 71:6
reminded [1] - 57:13
Removals [2]-12:13, 12:14
removed [1] - 72:17
removing [2]-52:22,
53:2
renewal ${ }_{[2]}-111: 12$, 113:24
repeatedly ${ }_{[1]}$ - 59:4
replacement ${ }_{[1]}$ -
113:4
Report [1] - 108:22
REPORT ${ }_{[1]}-1: 10$
report [13]-28:23,
46:3, 50:11, 50:17,
74:8, 74:18, 83:23,
84:4, 84:17, 85:7,
110:11, 118:19
reported [4]-44:4,
45:18, 52:16, 120:9
Reporter [1] - 120:7
reporter [1]-120:7
reporting [2] - 55:14,
60:20
reports [2] - 84:2, 88:2
represent [1] - 90:7
representation [1] -
13:14
representing ${ }_{[1]}$ -

69:7
request $[4]-3: 19$,
67:20, 113:3, 113:5
requested [6] - 65:9, 66:5, 67:4, 77:10, 79:16, 117:1
requests [1] - 3:21
Requests [1]-12:11 require $[4]-85: 1$,
86:3, 98:6, 111:20 required $[3]-6: 18$, 13:15, 35:22
requires $[3]-3: 3$, 59:2, 75:19
requiring ${ }_{[1]}-75: 8$
Research ${ }_{[1]}$ - 84:21
RESHMA [1]-2:10
resolve [1] - 53:19
respect $[11]-25: 24$, 32:9, 33:21, 50:15, 51:7, 51:24, 52:8, 54:22, 60:17, 72:2, 75:1
respond [1] - 117:7
Responder ${ }_{[1]}$ - 18:1
response [1]-60:15
responsibilities [1] 47:9
responsibility $[1]$ 47:10
rest $[2]-34: 8,82: 10$
result [4]-29:6,
29:11, 29:13, 55:14
results [1]-83:12
resume ${ }_{[1]}$ - 36:12
retiree [2] - 117:4,
117:17
RETIREMENT ${ }_{[1]}-1: 2$
retirement ${ }_{[1]}-15: 8$
retrieved ${ }_{[1]}$ - 32:20
return [17]-27:13,
76:23, 87:16, 91:23,
95:15, 96:9, 97:1,
97:8, 98:5, 98:22,
99:5, 99:6, 100:10,
101:4, 101:7,
101:11, 102:18
returned [1]-28:6
returning [3] - 45:19,
71:21, 91:22
returns [5] - 84:14,
92:18, 95:20, 95:22, 96:14
review [10]-6:17,
18:9, 50:10, 54:19, 70:24, 74:7, 83:20, 83:24, 85:21, 105:13 reviewed [5] - 18:11, 51:13, 55:10, 74:22, 117:3

| reviews [1] - 82: |  |  | $\begin{aligned} & 22: 9,22: 10,22: 11, \\ & \text { 22:12, 22:16, 29:1, } \end{aligned}$ | ge [1] - 36 |
| :---: | :---: | :---: | :---: | :---: |
| rid [1] - 100:18 | $\begin{aligned} & \text { schematic }[1]-87: 19^{\text {school }[3]-40: 22,} \\ & 40: 23,41: 1 \end{aligned}$ | $\begin{aligned} & \text { sent }[4]-25: 7,32: 21, \\ & 79: 2,112: 3 \end{aligned}$ |  | ep [6] - 35:3, 35 |
| ride [1] - 98:15 |  |  | :19, 30 | :7, 35:8, 39 |
| rig [6] - 20:11, 20:12 |  | separate [2] - 87:24 | 42:21, 43:2 | t [1]-57 |
| 18, 20:19, 20:22 | sciatica [1]-25:6 | 88: | $\begin{aligned} & \text { 43:21, 44:1, 97:6, } \\ & \text { 102:9 } \end{aligned}$ | slide [4]-90:3, 91:17 |
| 20:24 | $\begin{gathered} \text { SCOTT }[7]-2: 16 \\ 83: 10,104: 23, \\ 105: 9,105: 15, \end{gathered}$ |  |  | $\begin{gathered} \text { 92:14, 104:4 } \\ \text { Slide }_{[1]}-103: 9 \end{gathered}$ |
| right-hand |  |  |  |  |
| rigs [2] - 44:14, 47 |  | 23, 84:7, 84:1 | shifted [1] - 89:22 <br> shifting $[1]$ - 100:20 | slides [2] - 87:19, |
| risk[17] - 86:12 |  | 98:20 |  |  |
| 86:13, 87:15, 91:23 | screen [1] - 83:22 <br> screenshot $[1]-45: 10$ | series [1]-33:16 <br> serious [1] - 75:17 | $\begin{gathered} \text { shifts [4] - 22:14, } \\ 43: 11,101: 2 \end{gathered}$ | slight [1] - 98:19 <br> slightly ${ }_{[1]}$ - 84:12 |
| 24, 97:8, 97:15 |  |  |  |  |
| 19, 97:21, 98:2 | Search [2]-4:12, 4:18 | $\begin{aligned} & \text { server }{ }_{[2]}-112: 11, \\ & 112: 17 \end{aligned}$ | shocked [1]-41:4 | slightly ${ }_{[1]}$ - 84:12 |
| $\begin{aligned} & 98: 3,98: 4,99: 8, \\ & 99: 9,101: 5,101: 8 \end{aligned}$ | Second [12] - 7:24, 9:20, 10:17, 11:15, |  | $\begin{aligned} & \text { short [2] - 101:14, } \\ & 105: 10 \end{aligned}$ | $\begin{aligned} & \text { 107:8 } \\ & \text { sneeze }[1]-58: 21 \\ & \text { someone }[1]-112: 16 \end{aligned}$ |
| $\begin{aligned} & 9: 9,101: 5,101: 8, \\ & 01: 9 \end{aligned}$ | $\begin{aligned} & 9: 20,10: 17,11: 15, \\ & 13: 16,65: 11,66: 7, \end{aligned}$ | service [12] - 47:15, | Shorthand [1] - 120:6 |  |
| risky [2] - 98:13, 98:1 road [2] - 58:2, 91:8 | $\begin{aligned} & \text { 77:11, 82:14, 108:6, } \\ & \text { 117:19, 119:2 } \end{aligned}$ | $\begin{aligned} & 80: 14,80: 22,81: 4, \\ & \text { 81:5, 81:6, 81:10, } \end{aligned}$ | $\begin{aligned} & \text { shorthand [2] - 120:9, } \\ & \text { 120:12 } \end{aligned}$ | sometime [4] - 39:4, |
| ing [1] - 98: | second [18] - 4:2, | $\begin{aligned} & \text { 81:11, 81:18 } \\ & \text { Session [2] - } 65: 5, \\ & 65: 7 \end{aligned}$ | shot [11]-24:20, | $\begin{aligned} & \text { 41:2, 44:3, 72:9 } \\ & \text { sometimes }[1]-88: 9 \end{aligned}$ |
| ROBERT [1] - 2: role [1] - 114:13 | 12:16, 22:7, 42:21, |  | 39:15, 39:18, 40:2, | sometimes [1] - 88:9 <br> somewhere [1] - |
| 114:13 |  | 65 |  | 89:14 |
| $15: 9,31: 13,111: 2$ | $\begin{aligned} & \text { 52:17, 64:12, 78:8, } \\ & 79: 7,91: 13,91: 19 \\ & 99: 12,99: 19,110: 4, \end{aligned}$ | $\begin{aligned} & \text { session }[5]-4: 16, \\ & 6: 18,64: 8,64: 11, \\ & 65: 3 \end{aligned}$ | $\begin{aligned} & \text { 40:3, } 40: 8 \\ & \text { shots [5]- } 25: 19, \\ & 39: 7,39: 12,58: 10 \end{aligned}$ | $\begin{aligned} & \text { Soni [10] - 5:6, 64:2, } \\ & 64: 4,64: 17,65: 18 \text {, } \\ & 66: 15,77: 19,78: 15 \text {, } \\ & 82: 16,82: 21 \end{aligned}$ |
| rolling [1] - 75:13 <br> room [14]-24:19, | $\begin{aligned} & \text { 99:12, 99:19, 110:4, } \\ & \text { 115:23 } \end{aligned}$ | 65:3 <br> set [6] - 6:23, 20:12, | shoulder $[7]-27: 8$, |  |
| $\begin{aligned} & \text { 24:20, 28:23, 29:9, } \\ & 29: 22,30: 1,32: 10, \end{aligned}$ | $\begin{gathered} \text { seconded }[18]-5: 24, \\ 7: 4,8: 2,8: 24,9: 22, \end{gathered}$ | $\begin{aligned} & 20: 17,83: 20,95: 14, \\ & 115: 7 \end{aligned}$ | $28: 5,28: 6,28: 7$ | $\begin{gathered} \text { SON }{ }_{[12]}-2: 10,64: 2, \\ 64: 18,65: 19,66: 16, \end{gathered}$ |
| 2:24, | 10:19, 11:17, 12:18, |  | show [7] - 47:7, 51:24, | $\begin{aligned} & 64: 18,65: 19,66: 16, \\ & 77: 20,78: 16,82: 14, \end{aligned}$ |
| 15, 57:1, 57:3 | 13:18, 65:13, 66:9, | settled [1] - 114: |  | $\begin{aligned} & 82: 22,107: 15, \\ & 107: 20,108: 1 \end{aligned}$ |
| 112:23 | $\begin{aligned} & \text { 82:16, 108:8, } \\ & \text { 117:21, 119:4 } \end{aligned}$ | $22: 14,22: 15,22: 16$ |  |  |
| roots [1] - 52:4 |  |  |  | sorry [2] - 47:19, 77:3 |
| rough [1] - 84:7 |  | $\begin{aligned} & \text { 22:17, 30:21, 30:23, } \\ & 47: 8,68: 22,98: 21 \end{aligned}$ | showing [1]-116 | $\begin{aligned} & \text { sort }[1]-47: 17 \\ & \text { sought }[1]-36: 13 \end{aligned}$ |
| Rowe [1] - 113:1 | secondly [1] - 111:12 |  | 91:24 |  |
| run [5] - 4:23, 34:23, | $\begin{aligned} & \text { Secretary }[3]-2: 6, \\ & 3: 7,5: 16 \end{aligned}$ | several [5] - 67:20, |  | sound [1] - 46:14 <br> sounded [2]-59:21, |
| 37:14, 96:11, 113:2 |  | 86:8, 87:3, 102:8,111:14 | $\begin{gathered} \text { side }[5]-34: 1,34: 3 \\ 52: 4,103: 3,110: 9 \end{gathered}$ |  |
| running ${ }_{[1]}-67: 18$ | $\begin{aligned} & \text { Section [4]-6:18, } \\ & \text { 13:10, 32:11, } 64: 9 \end{aligned}$ |  |  | 62:2 |
| Rush [9]-21:7, 28:11, |  | severe [2]-36:17,60:3 | $\begin{aligned} & \text { sides }[1]-34: 4 \\ & \text { sight }[1]-46: 9 \end{aligned}$ | $\begin{aligned} & \text { sounds [2] - 15:9, } \\ & 104: 13 \end{aligned}$ |
| 28:14, 28:16, 2 | $\begin{aligned} & \text { security }[4]-84: 3, \\ & 110: 13,111: 7, \\ & 111: 14 \\ & \text { see }[21]-4: 22,15: 18, \end{aligned}$ |  |  |  |
| 29:16, 30:11, 45: |  | $\begin{aligned} & \text { sexual }[2]-110: 12, \\ & 111: 6 \end{aligned}$ | sign [1] - 112:3 <br> sign-in [1] - 112:3 <br> significant [1] - 52:11 | South [1]-1:12 <br> south [1] - 44:15 <br> space ${ }^{[2]}-25: 10,58: 1$ |
| 51:5 |  |  |  |  |
|  |  | sharing ${ }_{[1]}$ - 83:22 |  |  |
|  | $\begin{array}{r} \text { see }[21]-4: 22,15: 18, \\ 24: 12,44: 19,46: 21, \end{array}$ | sharp [3]-20:23 | $\text { simple }[1]-43: 11$ | specialists [1] - 84:23 |
|  | 60:5, $89: 19,89: 24$,$90: 11,91: 11, ~ 91: 13$, | 1:2, 45:1 | simply [2]-43:15,86:3 | specialty ${ }_{[1]}-85: 1$ |
| S\&P ${ }_{[1]}-98: 2$ |  | SHERIDAN [22] - 2: |  | specific $[4]-29: 6$, $54 \cdot 11,54 \cdot 12,55: 8$ |
| $\begin{aligned} & \text { S-1 }[1]-52: 3 \\ & \text { safety }[1]-9 . \end{aligned}$ | 90:11, 91:11, 91:13, 96:8, 96:21, 104:1, | $\begin{aligned} & \text { :5, } 6: 4,7: 2,7: 8, \\ & 8: 7,9: 4,10: 2,10: 23, \end{aligned}$ | single [2] - 46:7, 62:3 | specifically [1] - 60:21 |
| Safety [1] - 70 | 111:13, 111:17, <br> 111:24, 114:21, | 11:21, 12:16, 12:22 | $\begin{aligned} & 34: 7,34: 8,36: 16, \\ & 45: 24 \end{aligned}$ | specifically $[1]-60: 21$ |
| salary [1] - 106:6 |  | 3:23, 64:16, 65:17 |  | 83:19 - ני |
| saw [7] - 24:22, 31 | 111:24, 114:21, 117:3 | $\text { b:14, 77:18, } 78: 8$ |  |  |
| 31:21, 32:7, 3 | $\begin{gathered} \text { seeing }[4]-24: 21, \\ 25: 16,46: 1,47: 1 \end{gathered}$ | 78:14, 82:20 | $34: 18,35: 1$ | $\begin{aligned} & 103: 13 \\ & \text { spinal }[1]-52: 5 \\ & \text { spine }[3]-52: 2,54: 4, \end{aligned}$ |
| 54:13, 98:7 |  | 108:12, 118: | situation [10]-57:2, |  |
| $\begin{gathered} \text { SCBA }[3]-44: 1 \\ 45: 17,45: 19 \end{gathered}$ | $\begin{gathered} \text { seeking }[3]-16: 3, \\ 19: 16,69: 13 \end{gathered}$ |  | 57:16, 59:11, 62:4, |  |
| rio [1] |  | :3, 10:1, 10:22 | 62:6, 62:8, 62:14, 87:12, 92:7, 92:9 | $\begin{aligned} & \text { spoiler }[1]-87: 11 \\ & \text { sport }[2]-26: 1,26: 16 \end{aligned}$ |
| scenarios [3] - 100:9 |  | 1:20, 12:18, 12:21, | $\boldsymbol{s i x}[3]-30: 24,31: 1$, |  |
| 101:6, 101:16 | Segal [2] - 88:5, 88:19 sell [3] - 86:20, | 66:13, 77:17, 78:10, |  |  |
| schedule [5] - $36: 5$, | $\begin{aligned} & \text { 101:14, 101:21 } \\ & \text { semi }[1]-6: 17 \\ & \text { semi-annual }{ }_{[1]}-6: 17 \end{aligned}$ |  |  | $40: 20,73: 5$ |
| 44:23, 116:3, |  | 78:13, 82:19,108:11, 117:24 | eleton [3]-59:4 |  |
| 16:16, 116:1 |  |  |  | sports [2]-25:2, 41:4 |
| schedules [1] - | nd [2]-111:9, 113:3 | Shield [1]-117:1 | skills [1] - 44:20 | squats [1] - 35:20 |
|  | sense [1]-62:6 | ft [21] - 22:7, 22:8 | skin [1] - 75:8 |  |




85:5, 85:22, 88:9, 91:6, 95:20, 104:15, 106:18, 106:21,
107:5, 109:17,
110:5, 110:15,
111:3, 113:15,
114:10
year's [1] - 116:9 year-over-year [1] -
113:15
year-to-date [2] -
84:14, 84:15
year-to-year [1] -
104:15
years [33]-21:16, 21:21, 21:23, 21:24, 26:9, 26:21, 62:10, 81:3, 81:4, 81:5, 83:18, 83:21, 87:3, 90:6, 90:15, 90:19, 93:23, 94:4, 94:8, 95:16, 95:20, 95:21, 96:2, 96:3, 96:6, 96:9, 98:21, 102:8, 102:9, 102:11, 103:17, 103:19 yellow [2] - 96:18, 97:2
yields [1] - 100:6
yourself [1] - 30:10

