

STATE OF CONNECTICUT
STATE EMPLOYEES RETIREMENT COMMISSION
ACTUARIAL SUBCOMMITTEE MEETING

SEPTEMBER 1, 2021 MEETING
HELD VIA ZOOM
CONVENED AT 3:04 p.m.

Present (via Zoom):

Peter Adomeit, Chairman
Robert Coffey, Trustee
Tim Ryor, Actuarial Trustee
Claude Poulin, Actuarial Trustee
Michael Bailey, Trustee
John Flores, General Counsel to Treasurer's Office, Ex-Officio
Member
John Garrett, Cavanaugh Macdonald
Ed Koebel, Cavanaugh Macdonald
John Herrington, Retirement Services Division Director
Jean Reid, Retirement Services Division
Donald Wilkerson, Retirement Services Division
Cindy M. Cieslak, Rose Kallor, LLP

TRANSCRIPTIONIST: Karin A. Empson

1 (Proceedings commenced at 3:04 p.m.)

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5 MR. ADOMEIT: So let me call the meeting to
6 order. This is a meeting of the Actuarial Subcommittee
7 of the Connecticut State Employees Retirement
8 Commission. And, Cindy, do you have the attendance,
9 please?

10 MS. CIESLAK: Sure. This is Cindy Cieslak,
11 just to begin with, Chairman Peter Adomeit. Present
12 today, we have Chairman Peter Adomeit, Trustee Robert
13 Coffey, Actuarial Trustee Tim Ryor, Actuarial Trustee
14 Claude Poulin, Trustee Michael Bailey. We have John
15 Flores, General Counsel to the Treasure's Office and Ex
16 Officio Member of the Retirement Commission. Also
17 present are Ed Koebel from Cavanaugh Macdonald and John
18 Garrett from Cavanaugh Macdonald. From the Retirement
19 Services Division, we have John Herrington, Division
20 Director. From Retirement Services Division, we have
21 Jean Reid, and from the Retirement Services Division,
22 we have Donald Wilkerson. And I am Cindy Cieslak from
23 Rose Kallor, General Counsel to the Retirement
24 Division.

25 Did I miss anyone? Okay. I think we're all

1 set.

2 MR. ADOMEIT: Thank you, Cindy. There is one
3 item on the agenda. It is the Experience Investigation
4 for the Five-year Period Ending June 30th, 2020 from
5 Cavanaugh Macdonald Consulting - or Actuaries. And it
6 covers the Connecticut State Employees Retirement
7 Commission, Judges, Family Support, Magistrates and
8 Compensation Commissioners Retirement System and the
9 Probate Judges and Employees Retirement System.

10 And so I will turn this over to CavMac.

11 MR. GARRETT: Thank you, Mr. Chairman. It's
12 a pleasure to finally actually be near the end of this
13 experience study. It has been a long and winding road.
14 We tried to, along the way, give some previews of what
15 we're doing, and hopefully we got you the report. I
16 know it's a lengthy report like, I don't know, 70 pages
17 plus. I think we got it to you on Sunday. So
18 hopefully we gave you all some time to kind of go
19 through that, so we won't have to do a double-take on
20 some of this economic stuff that we've talked about
21 before.

22 But - so just to jump into it. And Ed is
23 with me. Ed and I will really go through the
24 materials, and then we'll be ready to answer any of the
25 questions you may have. If you have a question along

1 the way though, there's probably no better time than
2 the present while we're on that topic.

3 So looking at Slide 2, really, you know, just
4 actuarial valuations are very complex calculations.
5 They rely on a lot of estimates or predictions of
6 future occurrences. And so, you know, that's why it's
7 so important that for large systems, where you have
8 credible data, that we assess it and determine whether
9 or not the assumptions that are currently in place are
10 sufficient to be the forecast of what's going to happen
11 in the future, and if not, what adjustments need to be
12 made to them.

13 So that's basically what an experience study
14 does. And, you know, it's just like you know what they
15 say about opinions, everybody has one. So, you know,
16 assumptions are never perfect. You know, the intent is
17 that we set an assumption that's kind of in the
18 midpoint of what actually occurred. We know we're
19 going to get one year, you know, much less of that
20 occurrence, and some years, much more - Ed, we're on 3.
21 That's fine.

22 And so, you know, we know the actual
23 occurrences year-over-year are going to be within a
24 range, and we hope that if we selected an assumption
25 that's in the middle of that range, you know, at that

1 midpoint, we've minimized the gains and losses. And
2 the gains and losses then actually, you know, relate to
3 the variation in the unfunded liability, and the
4 variation in the unfunded liability then has a
5 corresponding variation in the required contribution of
6 the employer.

7 So in order to kind of - a hidden objective
8 of maintaining contributions as stable as possible, we
9 have to back into it by, A, setting some assumptions
10 that really tend to be at the midpoint of what is
11 actually going to occur. That's the hope. We do this
12 - you know, we've done this in a lot of places with a
13 lot of plans. Most of - all of them are big plans.
14 We've got to the point to where, just because you have
15 data that specifies a certain complexity of an
16 assumption, and you think that that would be the best
17 way to do it, in our experience, you know, it's not
18 always the case. We try it, and then when it doesn't
19 work, we pull it out.

20 So a lot of times, you'll see stuff like, for
21 instance, on the retirement assumptions, one of the
22 things we've simplified here this year is we used to
23 have an assumption for a rate at first eligibility, and
24 then a rate that would occur after a person has hit
25 their first eligibility for a retirement benefit. And,

1 you know, that just didn't really have a material need
2 to have that complexity in there. So you'll see in
3 some places we have added a little complexity, and some
4 places, we've removed some.

5 But the toughest thing for an actuary to do
6 is to take in all this data and of course, you know,
7 we'd have the data; we can look at it; but one thing we
8 need to be cautioned against is that five years of data
9 does not necessarily represent the data that's
10 necessary to be a perfect prediction of what's going to
11 happen in the next 40 years or 50 years or 60 years.
12 And of course, that's how it's going to be used. So,
13 you know, we do need to try and draw from this how is
14 it impacting a longer-term trend. And so a lot of this
15 is on, you know, professional judgment, our experience
16 in doing this with a lot of the large systems around
17 the country.

18 And lastly, it's the actuary's job to make
19 these recommendations. It's really the commission's
20 job to adopt them and make them theirs. So, you know,
21 we do have some of these assumptions that are kind of
22 driven from statutes, like the 6.9 percent discount
23 rate. It's kind of something that was based on an
24 agreement. We prefer that when that's the case,
25 instead of saying, that's not our assumption, we take a

1 look at it, and we say, you know, if we can get behind
2 it and it's reasonable to us, then, you know, if we
3 make that statement that we believe it's reasonable,
4 then it becomes our assumption. So instead of calling
5 it a prescribed assumption - it's kind of forced upon
6 us - then, you know, we'd much rather go along and
7 review it, and if we agree with it, then it's ours too.

8 So that's what we've done with really most
9 all those assumptions that were driven by SEBAC
10 agreements, the last one, the 2017 agreements that
11 specified really the discount rate and some of the
12 other items.

13 So, with that, one of the first steps we do,
14 of course, which actually I believe Tim and Claude
15 already beat us to it a few months ago, was to look
16 back at the valuations that were available, to see how
17 the assumptions have performed. And, you know, SERS
18 was certainly losses all across the board. I think the
19 only good point was post-retirement mortality, and it
20 was a pretty minor, you know, gain. So but when we
21 looked a little bit further into the losses, certainly
22 retirement losses are there, they're real, and, you
23 know, we were thinking that the new assumptions we're
24 setting for rates of retirement are going to address
25 that.

1 The salary-increase losses though, you know,
2 when we looked back at this period, we had a SEBAC
3 agreement in 2017 that froze pay increases for three
4 years, in '17, '18, '19 fiscal years. So I remember
5 when we were valuing that, we were like, well, what's a
6 pay freeze exactly; what does that mean for us as far
7 as how we address that to do an assumption to try and
8 price what that SEBAC agreement was going to do? And a
9 pay freeze is a pay freeze. You know, I mean, people
10 were wondering if that meant something different in
11 Georgia than it means in the rest of the world.

12 But so what we did is we made an assumption
13 for those three years that we would zero out wage
14 inflation. So zero across-the-board increases, and
15 then reduced by half the merit scale. So the scale
16 that represents the pay increases due to service,
17 promotions, those kind of - we call it a merit scale,
18 we'd reduce those by half. And those really only
19 affect the first 14 years of service. So we had a
20 pretty dramatic - I mean, it was a pretty low rate of
21 increase that was being assumed in those three years.
22 And, you know, the actual pays were actually higher.

23 So most of this loss was actually driven
24 primarily from 2019. That was the last year of the pay
25 freeze. Twenty-nineteen was actually over 500 million,

1 and this chart doesn't show the dollar amounts as those
2 are thousands of dollars. So when we're looking at
3 SERS, the salary loss is \$459 million over the four
4 years, three valuations, but more than that was only
5 the loss from 2019 doing that.

6 So again, we think it was a weakness in
7 assuming pay freezes were a little too frozen, and so
8 not that the wage inflation and the merit scales were
9 that off. So for this study, we really focused a
10 little bit more on just those two good years we had,
11 2016 and 2020, to kind of test how'd they do against
12 typical, you know, unfrozen type of experience. So we
13 just wanted to point that out.

14 The withdrawal loss, pretty minor. I mean,
15 that's the kind of fluctuations we would expect in
16 withdrawal. So the gain/loss, although it was not
17 pretty to look at, especially when we're performing the
18 valuations and presenting the results to you and loss
19 year after loss year, but when we actually look at it
20 over that period of time, it's not quite as ugly as
21 what we thought. There certainly is a need for an
22 adjustment, and what points, you know, to the greatest
23 need is the rates of retirement. So let's move on.

24 So first, you know, just to kind of look -
25 the experience study, we take a look at all of the

1 assumptions, but also the methods that we use. So
2 there are really three primary methods in actual
3 valuation. Actual costs method is really the
4 systematic allocation of future benefits to present -
5 to future normal costs or already accrued liabilities.
6 So that really there's only one game in town anymore,
7 entry as normal cost method. It's what's required for
8 use in GASB.

9 You know, we just moved from a projected unit
10 of credit. We got out of projected unit of credit in
11 most cases because, I mean, it's pretty clear that if
12 you want to stabilize your costs, and I think that's
13 really what the move that the State of Connecticut has
14 been making with the large plans is to try and get
15 their costs stable - you know, that's why we had to
16 change the amortization policy, the reduction to the
17 discount rates - that entry as normal cost produces -
18 just inherently in the calculations, produces a more
19 stable pattern of normal costs than does projected unit
20 of credit.

21 So we moved to entry as normal. We're
22 saying, let's keep it. The smoothing of the assets,
23 we're at a 20 percent writeup method. It's not a -
24 it's probably not the most common method, but when we
25 look at - this is what you always have used for

1 Municipal Employees Retirement System, and we actually
2 think it actually worked better. In our testing under
3 variable draws of market returns, it produces actually
4 the less volatile asset values. And so this 20 percent
5 writeup method, what it does is you take your beginning
6 of the year actual value of assets, you project where
7 you think you're going to be at the end of the year, so
8 it's an expected amount at the end of the year. And
9 then when you get to the end of the year, you measure
10 the actual market value, and you move the actuarial
11 value you expected it to be 20 percent toward market.
12 So you're always making an adjustment toward the market
13 value.

14 So we recommend staying with it. It may be
15 biased as far as its current condition. This is
16 something I know we've discussed before with Tim, that
17 it does have a bias in it. It's biased towards its
18 current condition, whether it's understating or
19 overstating market value. But long-term, it has really
20 no bias to it.

21 The third methodology is how we amortize the
22 unfunded liability. We just kind of moved - with
23 SEBAC's 2017, we moved it into this layered approach.
24 We like it, especially if we're going to close down
25 bases and really focus on trying to get the UAL smaller

1 every year, going to a level dollar approach. So all
2 these items that have been changed are exactly what
3 we'd recommend if we know your objective is to get to a
4 stable affordable pension plan for the State of
5 Connecticut. And so we recommend no changes to what
6 has been put in place in the last few years.

7 Ed, let's move to the slide. All right,
8 economic assumptions. So everybody has had a chance
9 hopefully to read a lot of the details that are in the
10 report. Maybe we can just kind of blast through here.
11 We're only recommending one change, which is to real
12 wage increases, and as a change from dropping it from
13 one percent per year down to half a percent per year.
14 Part of that is that experience - of course, it's a
15 whacky year to kind of base experience on in pay
16 increases, but, you know, we see that, I mean, what's
17 apparent in the data is real wage increases were less
18 than expected, certainly less than one percent, less
19 than half a percent. I figure around 39 basis points,
20 if I remember right.

21 But so, you know, we also asked for input
22 from OPM, who, you know, is setting what the
23 expectation for the State is in pay raises in the
24 upcoming future years. And their recommendation was a
25 half a percent on top of two-and-a-half percent

1 inflation, and that's exactly where we kind of thought
2 we'd like to be. That's where probably most plans in
3 the country have, around three percent wage inflation.
4 And we think it makes sense here. Even though
5 Connecticut is a higher paid workforce, we think though
6 that, you know, as far as percent of across-the-board
7 increases, in the environment that we're in, I think
8 three percent in total for wage inflation is a good
9 place to be.

10 So that was the only change we're
11 recommending. All the others, we like: two-and-a-half
12 percent inflation, 4.4 percent real wage - I'm sorry,
13 4.4 percent real rate of return. That totals to be a
14 6.9 percent total discount rate. The only other one we
15 added in here, we kind of put in here the COLA's, which
16 we showed some details of what we think about the
17 COLA's. If anything, we're a little bit conservative
18 on these assumptions, but with the kick-up in
19 volatility of CPI, it might be a good time to kind of
20 hang on to what we have. And so we're recommending,
21 let's hang on to these, and keep that margin for
22 adverse outcomes that could occur. So we like all the
23 COLA rates that we've already set. I think we set
24 those a few years back.

25 So that's economic, unless anybody has any

1 points that they'd like to touch on or have any
2 questions about that. And without questions, we'll
3 move on to the demographic assumptions. So this is-

4 MR. POULIN: (Inaudible) okay.

5 MR. GARRETT: Yeah. I'm sorry.

6 MR. POULIN: This is Claude Poulin. You're
7 getting into the demographic now?

8 MR. GARRETT: Yes, sir. Yes, sir.

9 MR. POULIN: Yeah. Okay, thanks.

10 MR. GARRETT: Okay. So, yeah, this is a
11 little more actuarial. See Tim and Claude kind of
12 screwed up in their chairs? Because this is a little
13 more of a - this is where actuaries-

14 MR. RYOR: Actually, can I go back a second?
15 Just because - I apologize. I didn't - I was pretty
16 full up. I got a little bit of a chance to dig in, but
17 not as much as I would have liked.

18 MR. GARRETT: Okay.

19 MR. RYOR: But on the merit scale, were you
20 recommending some changes there?

21 MR. GARRETT: Yeah, so wage, the across-the-
22 board piece, we handle that in the economic assumption.
23 So we're assuming the three percent stays the same - or
24 actually, we're dropping it from three-and-a-half to
25 three percent for the across-the-board piece, the wage

1 inflation piece. And then the merit component, because
2 it's service-based, we handle that in the demographic
3 section.

4 MR. RYOR: Oh, okay.

5 MR. GARRETT: So we haven't gotten there yet.

6 MR. RYOR: (Inaudible)

7 MR. GARRETT: Tim, you're ahead of me again,
8 man. You're-

9 MR. RYOR: (Inaudible) Perfect. I'll wait
10 for the-

11 MR. GARRETT: All right. All right, good.

12 All right. So, you know, the demographic
13 piece is where now we kind of look back on what
14 happened over the five years, we compare it to what we
15 expected to happen under the current assumptions, and
16 then we looked for places where we need to make some
17 adjustments. And this year is a new change. We really
18 are convinced that this weighting experience does make
19 a difference instead of just using headcounts approach.

20 So in years past, for instance, if we're
21 looking at rates of withdrawal, we would have an actual
22 account of the number of people who actually left the
23 plan prior to - you know, because of not for reasons of
24 retirement or death or disability, so withdrawals. And
25 then we'd have the people that were exposed to that,

1 so, you know, everybody that could have withdrawn, and
2 we do that in headcounts. Well, that's how it was done
3 for years and years. And, you know, we actually have
4 seen more and more a lot of outcomes, even for large
5 plans, where the headcounts look fine. You know, when
6 you're looking backwards, you're saying, well, you
7 know, we got - we expected to have 1,000 people
8 withdraw and we had 1,005, so headcount was perfect;
9 what happened? Why did we have this loss of, you know,
10 \$65 million?

11 And, you know, you dig in and actually, you
12 had the right number of people leave, but they missed -
13 they weren't necessarily the same liability weight, all
14 right? So when we have a lot of lower paid people at
15 the early parts of their careers withdraw, which is
16 typically for withdrawals where we're going to see
17 them, then they're leaving with not much impact to the
18 liability of the plan. So we can generate a lot of
19 headcounts there, but not really move the needle on,
20 you know, did we release enough liability for
21 withdrawal as what we were expecting.

22 And when we have the higher paid, more years
23 of service people, the higher weighted toward - on the
24 liability side, we don't have enough of those people
25 leave, then we have those losses because, you know, one

1 of those people not leaving is an offset, you know, by
2 eight of the lower paid young folks that do leave. So
3 headcounts are not as meaningful to the measure of gain
4 and loss. So that's why we're looking at salary
5 weighting, active benefits for post-retirement
6 mortality, we amount-weight it so the amount of the
7 benefit payments they receive. And so since
8 everybody's kind of in categories of ages, that's
9 pretty much a liability weighting, pretty close.

10 So that's new for this plan. It has actually
11 impacted some of the rates, especially for retirements.
12 Some of the adjustments we made to withdrawal was
13 really driven by that idea that really the liabilities
14 or, you know, the headcount is working fine. In fact,
15 for withdrawal, we had more people withdraw in the last
16 five years of the experience study, period, than what
17 we expected, which typically you would think more
18 withdrawals would be a gain, released more liability
19 than we expected. But we had losses due to withdrawal
20 because, again, where the people were leaving.

21 So jumping into withdrawal, you can see here
22 we have - this is on the weighted versions. So up top
23 left there, the non-hazardous group, which is the
24 largest of SERS, and this is SERS, that we have - thank
25 you, Ed. You really have improved in your Zoom skills,

1 Bo. So you can see the A/E ratio is really the metric
2 we really kind of focus on, is we have any actual
3 amount of - here, in this case, a weighted number of
4 withdrawals weighted by their salaries, and an expected
5 number of withdrawals weighted by their salaries, and
6 then we compare that, how much did we actually get
7 versus how much did we expect to get.

8 And so we had - you know, pretty close. We
9 had only a little bit less actual than expected. So
10 for withdrawal, when we have more than expected, we
11 have more liability released. And so there's a little
12 bit of a gain when you have more withdrawals than you
13 expect. When you have less withdrawals than you
14 expect, you have typically a loss because you didn't
15 release as much liability as you expected.

16 So we're pretty close, so within two percent.
17 And then if we look at the hazardous duty folks, we're
18 actually a little bit on the - you know, females
19 actually had more withdrawal than we expected. That
20 weighted withdrawal experience of 21 million, we
21 expected 19.6 million. For the male - again, the
22 female hazardous duty is the smallest group of the four
23 that we're looking at here, non-hazardous males,
24 females; hazardous-duty males, females. This is the
25 smallest group, which is, you know, less material to

1 the outcomes.

2 And then males again were on the - we had a
3 lower weighted expected withdrawal, lower than expected
4 withdrawal, so 98 percent, again, within two percent.
5 So not too bad, but still, we'd rather be around one-
6 oh-three, one-oh-four, you know, somewhere in between
7 the three - about three and five percent margin when we
8 set new withdrawal rates.

9 So let's move on. So this is really the
10 chart that shows - the blue line is what actually
11 occurred; the red line is what we expected to occur.
12 And the green line is what we're proposing for the
13 adjustment. And so in this one graph, you can kind of
14 see, you know, there are really not material changes at
15 all, once we get past age 35. But in the earlier
16 years, we're looking at lowering the rates of
17 withdrawal. So we're hanging onto more of those young
18 folks in these valuations.

19 Same thing for non-hazardous females, again,
20 a slight adjustment, pretty much right on top of
21 everything for the later ages. The rates are pretty
22 small there. And then the A/E ratio, so again, if you
23 remember, we're around two percent, low 0.98's range
24 for the A/E ratios. So now that we've weighted it and
25 adjusted them, we're right where we kind of want to be,

1 a range of, you know, around three to five percent
2 margin. So this is - with the new assumptions, we have
3 A/E ratios of 1.034 and 1.028 for females.

4 And then for hazardous, similar - yeah, I
5 think this line probably should have been deleted. But
6 for the hazardous males, it's again, as the adjustments
7 that we're making, not quite as pure, but still the
8 result is we have rates that now, based on the same
9 experience occurring, we have margins of about four
10 percent for male hazardous duty and about almost six
11 percent for females. You remember, females was about
12 seven percent, so this moves it down closer to the
13 range we want to be in.

14 So that's the assumption changes for
15 withdrawal. Any questions on that one?

16 Next is disability. So this is folks who
17 become disabled and then start to draw a benefit from
18 the plan due to that disability. Typically it's called
19 disability retirements. Again, we've weighted this
20 exposure as well as the experience. You can see that
21 really hazardous duty is where we really missed it on
22 these last rates. These last rates, we expected way
23 more, you know - here, the weighted number is 12.2
24 million versus 7.8, roughly, 7.7. So that A/E ratio is
25 0.62, 0.63. So those rates were a little bit heavy on

1 expecting disabilities on the hazardous duty side. So
2 that's certainly a place where we need to actually
3 reduce those rates.

4 And then for the non-hazardous, not too bad.
5 A little bit - you know, maybe a little bit outside
6 where we want to be, but not bad at all, 0.94. Here,
7 for this, again, we'd want to have a little bit of a
8 margin where we're having fewer actual disabilities
9 than expected. So, you know, we want to be below one,
10 but kind of in that range of 0.95-ish.

11 So this is what we're proposing to do with
12 the hazardous duty rates, again, not moving all the way
13 to where the blue line is. The blue line is what
14 actually occurred. The red line is what we were
15 expecting. And we're moving the green line kind of
16 down, just kind of uniformly down towards the blue, but
17 not going all the way there because, again, there's no
18 five years in time that's a perfect predictor of what's
19 going to happen in the next 30 years. But, you know,
20 we're believing that this is, you know, a trend, that
21 we have over-expected the number of disability
22 retirements, especially for hazardous duty. So this is
23 our recommendation there.

24 For the non-hazardous, certainly a much
25 larger group and much tighter to fit. Again, the A/E

1 ratio was 0.94. And so this is our recommendations,
2 really just slight adjustments. And it moves the
3 hazardous duty one, still keeping a lot of margin in
4 there; 0.8 is where we're moving with the new
5 recommended assumptions. And then for the non-
6 hazardous, it moves it from 0.94 to 0.975, so kind of
7 right in the middle of where we want to be.

8 That was disabled retirement. And here is
9 service retirement. So this is the one that - you
10 know, looking backwards, this is the one that we could
11 see pretty clearly that, you know, we didn't have great
12 fitting assumptions in place.

13 MR. POULIN: Excuse me, John.

14 MR. GARRETT: Yes.

15 MR. POULIN: We had a question on disability.

16 MR. GARRETT: Sure, Claude.

17 MR. POULIN: And it's not a part of the
18 PowerPoint, but in the report itself, with respect to
19 the service-connected disability and deaths - this is
20 on Page 7 - the recommendation is to increase the
21 assumed percentage of disabilities from 20 percent for
22 all employees to 30 percent for general employees.
23 Let's stop there. And then it says, 60 percent for
24 highly risk duty.

25 Is this the proportion of service-connected,

1 I suppose, to non-service-connected? Because it's not
2 the disability rate that we go from 20 to 30, is it?

3 MR. GARRETT: Right. So, you know, we left
4 this assumption in place in the last experience study
5 because we really didn't have data. We have better
6 data now, I think, and more reliable. And so when we
7 look at this assumption, we look at the service-
8 connected disabilities. That's the only one that you
9 have enough of them to actually make an assumption
10 with. So when we look at service-connected
11 disabilities, what we actually saw for non-hazardous,
12 about 34 percent were service-connected of the
13 disabilities that were approved; about 34 were service-
14 connected. And for hazardous duty, about 60 - right at
15 60 percent, a little over 60 percent were service-
16 connected from the hazardous duty folks.

17 So we know that 20 percent was not working.
18 And we have the data that we're pretty confident we
19 want to move those to that 30 and 60 range. Typically
20 for - even for municipal police and fire plans,
21 typically that assumption, because that benefit for a
22 service-connected disability has advantages other than
23 just dollars. The taxability of it is sometimes more
24 favorable.

25 So there's sometimes an incentive for a

1 person to push for, you know, and make sure that they
2 fully go through the whole process for a service-
3 connected disability. So with that, you know, we're
4 pretty convinced that certainly 20 percent was not the
5 good one. We recommend 30 percent for non-hazardous,
6 60 percent for hazardous, and then use those same
7 splits for death. There aren't enough deaths for us to
8 actually determine what that split is, but typically,
9 you know, using the split for disabilities is what
10 makes sense for death.

11 MR. POULIN: (Inaudible)

12 MR. GARRETT: Yes, sir.

13 MR. RYOR: Just a follow-up on that. Do you
14 have a sense - you know, so you have two pieces to the
15 change in the assumption, what you were just talking
16 about, and then the rates themselves. You know, it
17 looked like, historically, there's been a loss in the
18 last five years in disability. Do you have a sense of
19 what was generating the losses, the rates or the
20 (inaudible) service and non?

21 MR. GARRETT: Yeah, we think a lot of it is
22 the service - you know, that service-connected piece,
23 is because if a person, if they didn't have enough
24 years, if they didn't have 10 years of service and they
25 went out on disability, well, we were missing it

1 entirely. We never anticipated them to actually be a
2 disability. But if they go out on a service-connected,
3 it's day-one coverage. So, you know, I think that
4 split is kind of what was hurting us more than
5 anything. And to be honest, I mean, this is a really
6 pretty minor piece of the normal cost. You know, it's
7 a pretty minor change to what we actually see flowing
8 through the cost.

9 It's the right change. I mean, certainly we
10 needed to tighten up that service-connected piece.

11 MR. RYOR: Again, no, I was just trying to
12 reconcile the fact that the rates you were-

13 MR. GARRETT: Right.

14 MR. RYOR: --connecting way too many, but you
15 were getting losses, and then-

16 MR. GARRETT: Well, we're only - yeah, it was
17 only the hazardous duty folks, which are probably - Ed,
18 I think they were like a sixth of the total number of
19 disabilities we had. They were a pretty small minority
20 of it. So missing them, I mean, we're - yeah, we're
21 talking about seven people-

22 MR. RYOR: Right.

23 MR. GARRETT: --that we expected, you know,
24 whereas in dollars though, we were expecting zero on
25 somebody who was - that didn't have 10 years of

1 service, but - and then they followed through with a
2 service-connected disability. We were missing, you
3 know - we were holding a liability based on 20 percent
4 of it, when actually, you know, they actually did 100
5 percent of it. So-

6 MR. RYOR: Got it.

7 MR. GARRETT: So, jumping into service
8 retirement, again, this is one that, you know, we know
9 that we have an issue here; we needed to do something
10 here to tighten these up. Part of it is, you know,
11 what we notice is some of the complications we had in
12 the rates versus eligibility versus subsequent
13 eligibilities; it didn't really have any meaning. It
14 didn't - people weren't really electing that. And in
15 fact, you know, we're not convinced that was an
16 important feature.

17 There was one group. I think it was maybe
18 Tier I where we kept it. But - and there might have
19 been another one too that we kept it because it seemed
20 like it was material enough in the experience. So what
21 we're looking at here is the actual to expected. It's
22 a weighted - again, these numbers are thousands of
23 dollars in weighting. They're weighted here by
24 salaries of the folks.

25 So we see that we actually had over \$3

1 million of retirements on Tier I. We were expecting
2 under \$600,000 - I'm sorry, \$600,000, yeah. Tier I
3 normal, again, the 80 ratio, 1.78, so we missed it by -
4 that's 78 percent more actual Tier I normal retirements
5 than what we were expecting. Tier II, Tier II early
6 retirements is the only one that we actually had over-
7 anticipated, and we only had about 80 percent of what
8 we were expecting. But that's more than offset by the
9 Tier II and Tier II-A normal retirements where we had
10 about 12 percent more than what we expected.

11 That's probably the numbers that drive the
12 losses more than anything. It's just because of the
13 size of it, Tier II and Tier II-A. Certainly, Tier I
14 normal retirements didn't help either. And then we had
15 a 19 percent margin on hazardous duties. Hazardous
16 duty is a pretty significant sized group. This is all
17 three of the tiers.

18 So really it kind of says that everything but
19 early retirement, we need to kind of anticipate more of
20 them. And so looking at Tier I, this is our
21 recommendation. Now, Tier I is a pretty - getting to
22 be a pretty small group. Part of it, it's got more
23 people retiring than we expected. I mean, it's a
24 declining group of people. It's closed off. I think
25 there's, you know, a few hundreds left. Certainly,

1 hazardous duty is really, really super small.

2 So when we look at - we're just going to
3 double the rates. We're going from - on early
4 retirements, we're going from six percent to 12 percent
5 for the expected rate. And then on the normal
6 retirements, we're setting a solid, across-the-board 30
7 percent rate. It was a little bit on the conservative
8 side, as far as where the midpoint was and where the
9 weighted experience was. I think it was around 26
10 percent. But we kind of want to be on this side for
11 two reasons.

12 One is, you know, this is a group that they
13 all have everything they need to retire, and then on
14 top of this, one thing we are adding to this for 2022.
15 And we think that these folks have - and the group of
16 people that, when 2022 comes around, all they're going
17 to see on their side - you know, it's not about their
18 retirement eligibility or anything like that. It's all
19 about with their COLA being deferred for, you know,
20 roughly 18 months longer, and the rate being dropped,
21 and you know, I think that's going to be viewed as a
22 takeaway.

23 So these folks are the ones that are again
24 probably the ones that are going to be more out the
25 door for 2022 than the other group. So on top of this,

1 for 2022, we're adding a rate of 40 percent in addition
2 for normal retirements, and 20 percent in addition for
3 early retirements. So for only 2022, we're saying 32
4 percent of those eligible for early retirement are
5 going to elect it. And we're saying 70 percent of
6 those eligible for normal retirement elect it in 2022.
7 Then it drops back down to 30 percent.

8 So that's - for Tier I, we want to do
9 something pretty significant there just because we're
10 kind of getting surprised on the wrong side for a five-
11 year period of time.

12 So and then moving onto Tier II-

13 MR. POULIN: This is Claude.

14 MR. GARRETT: Yeah.

15 MR. POULIN: I do have a question. Because
16 these are people who, on average, well, they have more
17 than 40 years of service, because they're Tier I. So
18 the group closed in '83 or '84, depending on the - so
19 what would be their advantage to continue beyond July
20 1, 2022? So I would think it would be more - for early
21 retirement, that it would be more than 12 percent plus
22 the 20 percent. Then I think that it might be closer
23 to 40 or 50 percent. What do you think?

24 It's - because they're already there.

25 MR. GARRETT: Right.

1 MR. POULIN: They have - especially - we're
2 talking about Tier I. Their benefit would be close to
3 100 percent of pre-retirement income when you take
4 taxes into account and everything, so that I think that
5 the 12 percent might be a little low.

6 MR. GARRETT: Do 12 percent for early-

7 MR. POULIN: (Inaudible) at 20 percent.

8 MR. GARRETT: Right. Well, so the early
9 retirement folks, Claude, now, you're right. I mean,
10 Tier I closed a long time ago. But a lot of people had
11 bridged service back to Tier I when they became
12 reemployed at other points. And so we do have people
13 that are still on the rolls that we get data on that
14 have, you know, less than 15 years of service, even
15 though chronologically from Tier I, Plan B, Plan C, you
16 know, they should have a lot more service than that, I
17 agree with you. But there are still a lot of people
18 because of those breaks that have less than that.

19 So what we see is there's 18 Tier I, Plan C
20 active members. There's 370 Tier I, Plan B active
21 members. And then hazardous duty, there's two. So
22 whatever we do with hazardous duty, we could - you
23 know, that would be one I'd be okay with assuming 100
24 percent do something.

25 But, you know, for the early retirements,

1 it's probably very few that are exposed to it is kind
2 of why we're not overly worried with it. We kicked it
3 up to 32 percent for - but, you know, we're fine if you
4 - if we want to add to that, again, it's not going to
5 move the needle a whole lot as far as liabilities. It
6 would be - you know, it would be not a bad assumption
7 to say 50 percent. I mean, we could move that instead
8 of going to 32 percent for 2022, make it 50 percent.
9 Is that what you're thinking, Claude?

10 MR. POULIN: Well, I was thinking of the main
11 group. But you're right, there are some people who
12 weren't here when - but they had a break at one point
13 and they came back, and were vested, so they came back
14 to Tier I. And (inaudible) not talking about these
15 people. But for those people from the original group,
16 then I would think that the rate would be like maybe
17 30, or, you know, 32.

18 Well, these people are very close to age 65
19 at the present time. So they add four more. So that
20 there would be more in the normal group. So that the
21 early group, as you just said, and that (inaudible) is
22 these, the additional people who came in over the last
23 four year. So I think that makes sense.

24 MR. GARRETT: Yeah, you know, of the 370 in
25 Plan C - I'm sorry, Plan B, over 300 of them, right at

1 300 of them are over age 60. So for the normal
2 retirements, we're saying, let's add 40 percent. So we
3 have a 30 percent across-the-board rate at all ages,
4 and then we're adding 40 percent to it for 2022. So
5 we're really saying 70 percent of these folks go out in
6 2022. And then it goes back to 30 percent per year
7 until this population is - well, until the next
8 experience study at least or until (inaudible).

9 But they're becoming less and less relevant
10 as far as worrying about missing the assumption. So I
11 think the last big assumption we have to make is how
12 many of these folks are really going to go in 2022?
13 And to be honest with you, I mean, that's - I could
14 draw a number out of the hat and probably feel just
15 about almost as comfortable as saying adding 40 percent
16 to it.

17 But the only thing in the back of my mind
18 that worries me is that damn survey the Boston Group
19 did that said 72 percent of people are ready to go.
20 And after John shed the light on exactly how much data
21 that was based on, it was five (inaudible).

22 MR. HERRINGTON: Right, correct.

23 MR. GARRETT: Yeah. So, you know, I mean,
24 just on the worry that 70 percent of somebody is going
25 to be going, I would say it's going to be 70 percent of

1 these Tier I folks. And so that's why I'm saying - you
2 know, that's why we added that rate, that kicker rate
3 is so high on 2022.

4 MR. RYOR: Well, question on the setting of
5 the rates. I mean, what went into the - you know, I'm
6 looking at that blue line and thinking, I might have
7 started at 55 a little higher and graded down. But
8 what's the rationale for the flat rate all (inaudible)?

9 MR. GARRETT: Right. Well, again, most
10 everybody is past 55. So when you think about the
11 exposure before that, there's not a whole lot of people
12 back there that are being driven by that pre-55 rate.

13 MR. RYOR: Okay. Okay.

14 MR. GARRETT: So what we were looking at is,
15 because this population is declining, we really think
16 2022 is going to get rid of a lot of them, or a lot of
17 them are going to elect to retire in 2022. But what we
18 wanted to kind of set, one piece rate that was kind of
19 based on a little bit conservative above the weighted
20 average of all years. And that's kind of where we
21 ended up.

22 MR. RYOR: Okay. So I think what you're
23 saying, based on what the ages are, even though, you
24 know, for-

25 MR. GARRETT: Well, it's salary-weighted too.

1 It's salary-weighted too. So the higher paid folks
2 have a bigger weight in that population and why we
3 wanted to be at 30 percent.

4 MR. RYOR: Okay. So if you did something
5 that - I mean, put it another way, if you did something
6 that fit the blue line a little better, with, you know-

7 MR. GARRETT: Yeah.

8 MR. RYOR: --than for over 45 and graded
9 down, and you were maybe at 20 percent in the later
10 years-

11 MR. GARRETT: Right.

12 MR. RYOR: --since most people are in those
13 later years, you would actually be less conservative,
14 even though I'm thinking-

15 MR. GARRETT: Right.

16 MR. RYOR: --the other, but that's because
17 I'm not seeing the numbers of people and there's-

18 MR. GARRETT: Right.

19 MR. RYOR: --actually not too many people
20 left at 55 and 56.

21 MR. GARRETT: Exactly. Yeah, I mean, there's
22 64 people between 55 and 59 of the three hundred and -
23 well, of the roughly 400, is it? Let's see. Plan C
24 has 18 people. So 388 people that are 60 - 58 that are
25 less than age 60.

1 And of those folks, most of them already have
2 30 years of service. So again, I mean, to start, you
3 know - yeah. I mean, that's - it's amazing we had this
4 many people left, to be honest with you, right? I
5 mean, this is a group - these have the highest benefits
6 of any of the tiers. They - you know, a solid, you
7 know, two percent multiplier per year of service. And
8 it's - the hazardous duty is even - it's two-and-a-
9 half. So-

10 But, Tim, I think, you know, that effort, we
11 put into Tier II and Tier II-A for setting the rates.

12 So, Ed, if you want to pull up the next one.
13 So here, you know, this is really where the biggest
14 liability is for SERS is in Tier II, Tier II-A. Early
15 retirement, again, we set one rate across-the-board for
16 this group. It seems like it has been not utilized.
17 This was, again, the only piece that we were
18 overkilling on before, about an 80 percent A/E ratio
19 for Tier II, Tier II-A early retirements.

20 So here we actually just dropped it just a
21 little bit, made it across-the-board. We're not seeing
22 - and this change - the scale, you've got to kind of
23 consider the scale. The scale goes from two-and-a-half
24 percent at 55 up to six percent at 61. So, you know,
25 four percent kind of sits at the weighted middle of -

1 especially when we salary-weight these things. This is
2 kind of where we - if we were going to pick one rate
3 that's meaningful, we'd pick four percent, and that's
4 kind of what we did here.

5 The normal retirements, we actually kind of
6 went in there at categories of ages and then
7 eligibility. So we did look at, for instance, first
8 eligibility for the first normal retirement, 60 with 25
9 years of service. Then the next one is 60 - what is
10 it, 62 with 10. And then 70 with five for that group
11 of special people that can retire with five years of
12 State service.

13 So we looked at all of those. Again, we
14 didn't really distinguish a whole lot of difference
15 between first eligibility and subsequent. We just
16 think that's a complication that's not necessary. If
17 we've set the rates, there's no sense in it. What we'd
18 expect would be the rates of first eligibility would be
19 a little bit higher, but what we saw in most cases was
20 it actually wasn't. So why have that rate? Why don't
21 we just keep the bigger group and set a rate on a
22 bigger experience? We're likely to be better off.

23 So this is what - we set a pattern. Twenty
24 percent really is kind of a little bit of a margin in
25 expectation for people between 60 and 64. This is

1 probably where the primary exposure is. Then we kind
2 of set it more toward - right on what we just actually
3 had experienced at ages 66 and above. So that's right
4 around 25 percent. It goes back down to 22-and-a-half
5 percent thereafter. Simple, three steps. You know, to
6 us, it kind of fits the data pretty well. And then
7 what it does to the A/E ratios, of course, we like too.

8 We wanted to be a little heavier on rates at
9 the earlier ages just because, you know, that's kind of
10 where I think we're getting beaten as far as if you
11 look at the exposure. And where we're losing the
12 dollars more so, we're losing the dollars more at 60 to
13 65 than we're losing it elsewhere.

14 So going to the A/E ratio of these things,
15 next slide, which is, so, you know, again, we were
16 running around. Tier II, Tier II-A normal, the A/E
17 ratio is 1.12. So we've moved to the six percent on
18 the other side of that. So again, under these
19 assumptions, except for Tier I early, which I think is
20 a shock and it should be a surprise; it should be an
21 outlier; except for Tier I earlier, you know, I mean, I
22 think this is pretty much - would have eliminated. We
23 would have had salary - I mean, I'm sorry, retirement
24 source gains in the last five years under these new
25 assumptions. Not huge gains, but you know, I don't

1 think we'd have the losses that we would have had.

2 So this is the basis for assumptions. So
3 even the Tier II, Tier II-A early retirement, we're
4 actually adjusting those. You know, we moved that rate
5 down to across-the-board four percent, and actually
6 improved the funded ratio from 0.8, moved it up toward
7 one. Where we'd want to be on this is, you know, we'd
8 always want a one. We want to have a few less
9 retirements than what we expect, right? That's the
10 side to be on. If we want to miss, we want to miss
11 slightly on being more expected retirements than
12 actually occur.

13 So we want these A/E ratios to be in that
14 0.95 range. We were moving it from pretty far away,
15 like hazardous duty Tier I, II and III, moving it from
16 0.19. You know, to move it all the way down to the
17 other side is kind of an extreme case. So we felt
18 pretty good moving it down to just a two percent less
19 expected than actually occurred during the period.

20 So with that, that was probably one of the
21 uglier ones. It had a lot of stuff in it. Mortality,
22 we've kind of given you a preview of it. We have no
23 changes. We like where we're going with this. We like
24 that we're setting it to kind of a standard table. We
25 also would have to say that there's enough to question

1 about the data that, to make any type of, you know,
2 precise adjustments to it - like in a lot of cases,
3 we'll take these standard tables, we'll bend them where
4 we need to bend them to fit what we see as a trend,
5 especially with clients that we've done three or four
6 experience studies for. But, you know, we just - we
7 don't quite have that feeling with the data that, you
8 know, it's precise enough to do any type of significant
9 adjustments to.

10 So pulling the off-the-shelf above-median
11 amount-weighted Pub-2010 for general employees,
12 specified for, you know, service retirees, contingent
13 survivors, and only using it for contingent survivors,
14 not the living spouses in a joint life annuity, which
15 surprisingly has a visible impact on liabilities, but
16 only for when the retiree actually is dead do we use
17 that contingent survivor table, because the rates are
18 about 20 percent higher than what we see for retiree
19 rates of mortality, and then generationally projecting
20 that with scale MP-2020.

21 So really, it's pretty much one of the better
22 - as far as longevity measures, one of the, you know,
23 most generous, draw tables we could pull in and use
24 here, which it needs to be because, I mean,
25 statistically, Connecticut is in the top three in the

1 country. You know, you're certainly top five for
2 longevity. So we kind of want to be there. But what
3 we like is not making any adjustments to it. Let's use
4 it. Based on the data we just ran it through with, you
5 know, what we saw in the last five years, it's still -
6 it's a really conservative assumption, but it's less
7 conservative than what we were using. So it moves it
8 in the right direction.

9 Of course, if we go into a generational
10 approach, we typically would want to set the A/E ratios
11 of the last five years around one and let the
12 projection scale kind of improve the mortality over
13 time. But we don't have that confidence to make those
14 adjustments to push this back down to one. We think
15 that might be overkill. Again, Connecticut, top five.

16 So we're pretty happy to just trim back some
17 of that margin that we've had in mortality, and let's
18 use the standard table and really focus on improvements
19 in data and, you know, share those with you. As soon
20 as we start seeing them, we'll start sharing a little
21 bit more of that in the valuations. You know, we do
22 want to add - we kind of look back at our - when we're
23 doing our gain/loss, you know, there's a lot of
24 improvement we need to make to our gain/loss. I think
25 we need to add some sources.

1 COLAs would be a good source to add. And
2 give a little bit more detail on this post-retirement
3 mortality, how we're doing with that. Because I know
4 that's - you know, that's really - that's kind of a
5 low-hanging fruit for an assumption that really has a
6 big impact for the demographic assumptions post-
7 mortality - post-retirement-mortality is probably, you
8 know, the most impacted. So again, missing it there
9 is, you know, not pretty.

10 So that's one of the outcomes of this. So
11 going through the mortality again, we're recommending
12 that basis be used for the general employees, so the
13 non-hazardous SERS and judges, both the judges' systems
14 and the PJERS employees. So that's the basis that is
15 called the general - Pub-2010 general employees. And
16 then the safety employees we'd use for the hazardous
17 groups. Safety employees have a little bit higher
18 rates of mortality, a little less longevity.

19 But, you know, again, the above-median
20 tables, the amount-weighted tables, and specific to
21 healthy retirees, the contingent survivors, disabled
22 retirees, and actives.

23 So any questions on mortality?

24 MR. POULIN: One question and a comment. On
25 Page 50 of the report, it shows that the difference

1 between the count-based A/E ratio for males and the
2 weighted A/E ratio is like 1.402 compared to 1.296.
3 But for women, they are just about the same. Why is
4 the weighted ratio closer to the count-based ratio for
5 women?

6 MR. GARRETT: Well, Claude, you know, that's
7 part of the problem, right? That's-

8 MR. POULIN: (Inaudible)

9 MR. GARRETT: What that's saying is that,
10 really, we didn't miss the male - you know, when we
11 weighted by salaries, we didn't miss the males as much
12 compared to the head-count weight. Right? So the
13 people who died that had the higher liabilities, died
14 more like expected than just in the head counts for
15 males.

16 So, you know, part of it might be that, you
17 know, females might have enjoyed a little bit more
18 longevity - or, I'm sorry, here because their A/E
19 ratios were above one, we actually had more deaths than
20 what we had expected.

21 MR. POULIN: Yeah.

22 MR. GARRETT: You know, the female longevity
23 wasn't showing up as expected. And that's Page 50 of
24 the report? And, you know, there was in the first
25 draft - hopefully we pointed that out - but in the

1 first draft, that table of A/E ratios, once we changed
2 it, the one - so the one you're looking at right now is
3 really before. That's the old assumption, the A/E
4 ratio (inaudible).

5 MR. POULIN: Yes. Yes.

6 MR. GARRETT: So it has both the head-counted
7 based and the weighted-based. And weighting here, we
8 used the amount of their benefit. And then when we
9 changed the assumption, you see we're moving it to a 12
10 percent, 12-and-a-half percent margin for males. This
11 is non (inaudible).

12 It cut that about 15, 16 percent off. Same
13 thing for females. It went from around 140 down to
14 120. So again, more margin than what we typically
15 would want to have. But, you know, we don't feel like
16 we have solid enough data to make all those
17 adjustments. I think we'd want to take these tables
18 and move them to one. If anything, we'd be surprised
19 if the data was - you know, if in our mind, the data
20 was perfect, and it was pointing in this direction in
21 Connecticut, I think we'd have to question that anyway
22 and move with caution.

23 Because, again, we'd expect longevity - you
24 know, we should see these things moving - well, you
25 know, again, I mean, number one is Hawaii, which, you

1 know, I get it. They don't - they stop - their weekend
2 starts on Thursday afternoon. And, you know, so they
3 have no heart attacks in the office, certainly not
4 Fridays. (Inaudible) for the beach. But and then, you
5 know, you have the - I think number two is Minnesota,
6 which, you know, is kind of surprising, but you know.
7 And then, I think, last I saw, Connecticut was number
8 three for longevity.

9 So I think we'd want to keep a nice margin in
10 here even if we're going to a generational approach,
11 but especially now just because the hope is that the
12 next five-year study period, the data is going to be a
13 lot more solid for us to make some adjustments, if we
14 need to, to these raw tables.

15 The other thing too to point out, and I know
16 Tim might be involved in actually making it, is this
17 new basis for projecting generational - or projecting
18 improvements. What's it called, the MIM, that's going
19 to be coming out live? I think it's probably going to
20 be rolled out to other users around, what, next year,
21 you think, Tim?

22 MR. RYOR: Yeah, no, I don't have any special
23 insight there.

24 MR. GARRETT: Oh. I thought you were on the
25 REPC or-

1 MR. RYOR: No, no. I was on the Actuarial
2 Standards Board a few years back, but that was a while
3 ago.

4 MR. GARRETT: Okay, okay. Well, still, so
5 there is a possible change. Once we see it, if we like
6 it and think it would be useful in Connecticut's case -
7 it looks like what it is, instead of just taking MP
8 whatever and applying it, which we make adjustments to
9 the MP scales too for some other clients, but it gives
10 you a lot more adjustments to the improvement scales
11 before you apply it to the future projected mortality
12 rates.

13 So, you know, it might be something that we
14 can use there, but again, I'm kind of comforted - let's
15 - I'm huge behind this recommendation. Let's go to the
16 - a good conservative table, probably the most
17 conservative one out there for public sector plans.
18 And then, you know, let's kind of keep an eye on things
19 as it emerges. And hopefully we'll see that, you know,
20 it's a pretty good fit.

21 MR. RYOR: So did you see, you know, as far
22 as impact on liability, did it end up being, you know,
23 not as material on the retirees, but then for the
24 actives, maybe you saw a little uptick by going to the
25 generational, and then on the normal cost, maybe a

1 little bit-

2 MR. GARRETT: Yes. So the normal cost did
3 cost us a little bit. But we did see about a - God,
4 Ed, was it a \$280-million drop in liabilities for
5 retirees?

6 MR. RYOR: Okay.

7 MR. GARRETT: Yep. Yeah, I mean, it was a
8 significant drop in retired liability that, you know,
9 was just partially offset by the increase in present
10 value of future normal costs for actives.

11 But, yeah, I mean, it's - this is the most
12 painless transition to the fully generational Pub-2010
13 that I have had with a client. And, you know, I'm not
14 saying, pat us on the back. I'm saying, I don't know
15 what we were smoking when we did the last mortality
16 tables to come up with the RPH 2014 white collar
17 projected to 2020 with static BB. But, I mean, it was
18 a little overkill, or this data is really fooling us.

19 So I really don't think that table was
20 overkill. And actually, in the measures, the A/E
21 ratios look like it's overkill. But look at the size
22 of the gain. The gain was just tens of millions of
23 dollars. So that's why I'm saying, I think the data
24 we're dealing with is trying to fool us a little bit,
25 and I'm not going to take the head-fake this time.

1 Okay, so salary scale, Tim, your question
2 earlier was about how we - you know, what the merit
3 scale looks like. So we have to go into this knowing
4 right away, our recommendation is, let's drop the
5 across-the-board rate down half-a-percent. And then
6 what we did is we kind of look at what is the apparent
7 merit scale, and we consider the period of time. So
8 over the five years we are looking at, inflation was -
9 CPI-U was 1.56 percent, I believe, over the five-year
10 period of time.

11 So we take, you know, the rates, five years
12 of service. We pull out CPI. What's left there are
13 the pieces that represent above - so real wage growth
14 and merit, and we kind of looked at where do we think
15 the trend for real wage growth is. We're assuming it's
16 50 basis points. In the data, it looks more like about
17 39 basis points. So we pull that out. What's left is
18 what's an apparent merit scale, and then we kind of
19 adjust our rates for that.

20 And so in doing that, what we actually saw
21 was that pulling out that half percent of wage
22 inflation, less now, we needed to increase our merit
23 scales. And the other thing about it too is that we
24 needed to extend them out beyond the 14 years. So it
25 used to be that we have a merit scale that goes from

1 zero to 14 years of service. Now, it needs to go out
2 from zero to 19 years of service. So we're adding five
3 years to the length of the period of time we have to
4 select changing rates by years of service. And for the
5 most part though, I think the rates are going up
6 roughly a quarter percent. Some places, they go up a
7 half a percent.

8 So here's the scales. When we take those
9 merit scales we came up with, and the scales are shown
10 in the report, but when we then add back in the three
11 percent across-the-board rates to them and compound it
12 with them, this is the rates that we get. And you can
13 kind of see that they're not dropping down by more than
14 half percent in most places.

15 Early on, we were - I mean, we have some
16 ridiculous rates out there, but experience is kind of -
17 it's really not reliable, what we see out there at less
18 than one year of service. Because, you know, you get
19 data and you annualize it, and then, you know, that
20 sometimes is overkill or not, especially if the person
21 leaves and they actually only work, you know, six
22 months in total and they're in two different
23 valuations. So anyway.

24 But the key is that we want to have a margin,
25 right. So the blue line on this chart is what actually

1 occurred. The black line is what was being assumed.
2 And we want to have a margin in there because if we're
3 assuming inflation is two-and-a-half percent, what we
4 actually get here is 1.56 percent inflation. Just due
5 to inflation alone, our assumptions should be about one
6 percent higher. So we want to kind of keep that margin
7 in the red line above the blue line, not necessarily
8 five years, like this.

9 But when you look at the compound of - so if
10 we substitute this salary scale for a one-size-fits-all
11 across-the-board every-year service, we're going to
12 assume one rate-of-pay increase until we kind of
13 compound out this scale to get what that rate is. And
14 we compare it to what actually occurred. We want to
15 see in those compounded rates, especially, you know, 10
16 to 30 years of service for non-hazardous folks, we'd
17 want to see that we have a margin of at least that one
18 percent. Because, you know, whatever occurred to
19 inflation, although it's typically - you know, salary
20 scales lag that. But still, you know, over a five-year
21 period of time, we are seeing some of that, the
22 depressed portion of salary increases due to lower
23 inflation.

24 So and then on the hazardous one, similar
25 story. There was a lot of reason for us to think about

1 having only one across-the-board rate. But what we
2 didn't like about hazardous duty versus - and doing
3 that and then just kind of having one set, which we had
4 before - is, out there at 20 years of service, those
5 rates start kicking up for hazardous duty. That's when
6 they become retirement eligible. And so we didn't like
7 that. So we felt like we wanted to have a little bit
8 more extension, and a little bit higher rates out there
9 at beyond 15 years of service to kind of prepare
10 expected salaries for that. So, you know, they both
11 have a little bit of a kickup out there at 20 years of
12 service.

13 But still, you know, as long as we have that
14 compound career-based expected wage growths, salary
15 growth, as long as we have a good margin in there, and
16 I think our margin is about 1.2 percent from what
17 actually occurred to what we would expect under the new
18 assumption, you know, that's where I'm confident about
19 my guess.

20 So any questions on the merit scale? We do
21 have the A/E ratios there. So we were a little bit on
22 the wrong side again. This is a tough year to do this
23 with, the data, right, at three years of pay freezes.
24 So we pulled out the three years of pay freezes, '17,
25 '18 and '19, and we used - we weighted by two years.

1 So we treated '16 as two years' work and treated 2020
2 as three years' work. So the data is kind of weighted
3 60 percent 2020 and 40 percent 2016. We wanted to do
4 that because we think 2020 is the more recent,
5 emerging, you know, type of what we'd expect.

6 So that's what this is kind of based on, the
7 A/E ratios for the post - you know, for the new
8 assumption set, is based on that weighted experience of
9 2016 and 2020, eliminate the pay freeze. If we had the
10 pay freezes in here, really that rate at 20 years of
11 service would be, you know, like 1.2 percent or
12 something like that, instead of being two percent. I
13 mean, it was down quite a bit.

14 MR. POULIN: Okay, John. This is Claude
15 Poulin.

16 MR. GARRETT: Hey, Claude.

17 MR. POULIN: I think you just inserted the
18 question that I had, because I was surprised that the
19 actual expected ratio using the combined 2016 and '20
20 was 0.991, when for the years where there was a salary
21 freeze, it was higher, 1.00. Well, it was in excess of
22 1.003, if we-

23 MR. GARRETT: Right. And you know what?
24 That might be a little misleading, in how we did that.
25 So the before A/E ratios that we showed, it was 1.003

1 or 1.008, I think for hazardous duty; 1.003 for the
2 combined. That was on the five years that we actually
3 saw. So that - because there, we're showing what the
4 A/E ratio and what we assumed was. And what we assumed
5 was, we had a salary - you know, we had wage inflation
6 of three-and-a-half percent; we had a merit scale. But
7 we modified that assumption for that pay freeze to be
8 zero wage inflation and half the merit scale for those
9 three years.

10 So actual to expected, if you - Ed, can you
11 go back? Do we have that A/E ratio here? I know it's
12 in - it might be in the text there. There it is, at
13 the bottom. So, you know, based on the actual data for
14 the five-year period of time, we actually had a little
15 higher actual salaries than expected. And that kind of
16 relates then to the losses that we saw, especially for
17 2019.

18 So when we did the adjustment is when we used
19 only '16 and '20 as the two years of data that was
20 actually non-frozen pay. And there, we show the A/E
21 ratio being 0.99. I think if we had gone the other
22 way, I think - oh, no, we actually had that. I believe
23 it was like, geez, 0.9 - it was actually less - less,
24 right. We moved the A/E ratios up because the merit
25 scale actually got improved. I think - was that - no,

1 no.

2 You know, I'll have to look, Claude. In
3 fact, if we had the A/E ratios on the original data
4 slip-

5 MR. KOEBEL: John, I think it's on Page 55 of
6 the report. It says, using only 2016 and 2020, the
7 ratios were 0.99 and 0.992.

8 MR. GARRETT: Okay. Well, that's what the
9 new assumption is though, right?

10 MR. POULIN: This is Claude. I thought this
11 was the actual experience.

12 MR. GARRETT: So the actual experience for
13 the five years, you know, not including the assumption,
14 is on Page 49 - I mean, it's on Slide 49, what Ed has
15 up here. At the very bottom of that, where it says,
16 the non-hazardous duty A/E ratio, 1.003, right at the
17 very bottom-

18 MR. POULIN: Yeah.

19 MR. GARRETT: --and the hazardous duty A/E
20 ratio is 1.008. So that's based on the five years of
21 data, no different. So that's taking our assumptions,
22 including our reduced assumptions for the pay freeze,
23 with the actual data from the pay freeze deduced. So
24 that's kind of the reality of what happened, and that's
25 - you know, because the A/E ratio is above one, we

1 should have expected losses, and we had (inaudible)
2 loss.

3 But again, from what we can tell, the losses
4 were not because of the building-block approach of
5 building the salary increase assumption. It was really
6 because we assumed too much of a pay freeze because,
7 you know, pay freezes are never as frozen as you think
8 they are. You know, they're not like the arctic wild.
9 They're - you know, it's kind of like, you know, only
10 in the government do you get this one-time revokable,
11 irrevocable election kind of stuff.

12 So pay freezes are reduced, certainly, and I
13 think we just might have over-expected the reduction.
14 I mean, we built that into the SEBAC cost. I mean,
15 it's not bad; it's within a basis point; so we were
16 close, or 10 basis points, I guess.

17 So-

18 MR. POULIN: I still have - this is Claude
19 Poulin again. So what does the 0.990 represent for the
20 years 2016 and 2020? This means that the actual to
21 expected is less than one.

22 MR. GARRETT: Right.

23 MR. POULIN: And what does it include or
24 exclude?

25 MR. GARRETT: Right. So what that means

1 specifically for that chart is that if we had used the
2 new assumption for the assumption that was in place for
3 2016 and 2020, that we would expect actual salaries to
4 have grown one percent less than what they actually
5 did. So actual salaries would be 99 percent of what we
6 expected them to be. So that's an A/E ratio of 0.99.
7 And for hazardous, we'd expect it to be just under
8 that, 0.93. So it's saying that, if we had this
9 assumption in place, over the same period of time, this
10 is what the A/E would be for that.

11 Now the difference is, this is not apples to
12 apples, to the 1.003. And that's - I think in the
13 report, we actually break that out a little bit. Do
14 we, Ed? Let's see.

15 MR. POULIN: Yeah, it's on Page 55, I've got.

16 MR. KOEBEL: Page 55. Those are the numbers
17 I quoted earlier.

18 MR. GARRETT: Is that only on 2016 - oh, it
19 is. Okay. So, yeah. So, all in all, I mean, it's a
20 pretty tiny change here, 0.991 versus - yeah, so what
21 that's saying, and just like you see here, in these two
22 charts, right, the red line is above the blue line.
23 The blue line is what actually occurred, the rates of
24 salary change by years of service, right. So when the
25 red line is above it, that means we're anticipating

1 more increases than what actually occurred.

2 And so this chart is built on the 2016, 2020
3 cooling date. It removes the pay freeze years. And so
4 it over-anticipated what actual pays were. So that's
5 that 0.991 combined; for non-hazardous, 0.990; for
6 hazardous, 0.992. So what we're saying is, we're
7 really not modifying much, but we are adjusting the
8 merit scale to kind of account - to take into account
9 that drop in a half-a-percent out of wage inflation.
10 It's not necessarily something to the salary scale.

11 But we want to keep a margin in there because
12 we should have had salary increases less than what's
13 anticipated, simply because our assumption was built on
14 a two-and-a-half inflation assumption, and we actually
15 only got a 1.56 percent rate of inflation over that
16 five-year period of time. And we don't want to give up
17 that margin because we're still assuming one-and-a-half
18 percent inflation.

19 So because that red line (inaudible) I'm
20 sorry, the black line is above the blue line, and the
21 red line, both these cases, we should have A/E ratios
22 of less than one, so 0.99-something. It's just
23 because, again, the assumptions, both of them, had over
24 - expected higher salary increases than what actually
25 had occurred.

1 MR. POULIN: Okay. Good.

2 MR. GARRETT: In our view, it's not because
3 of the merit scale that much. In fact, when we drop
4 out half-a-percent from wage inflation, we've got to
5 put them back into the merit scale in order to kind of
6 keep this relationship (inaudible). (Inaudible) fine
7 being at 0.99. Point-nine-nine to us is a perfect
8 place to be for this - for the A/E ratio on the new
9 assumption. So it's really a little bit of a change in
10 the merit scale, more so to kind of counteract some of
11 the drop of the wage inflation itself.

12 So there are some miscellaneous assumptions
13 in here. One, we've already discussed, which is
14 service-connected deaths and disability. The other
15 ones are, you know, what percent of active members are
16 married. Eighty percent is kind of a pretty common
17 approach. It really comes into play more for active
18 death benefits. And then there's some police officer
19 benefits that provide benefits to children for that
20 purpose. We assume that those active members that have
21 that eligibility for that benefit all have two
22 children, both of them, age 12. So they all have
23 twins, age 12.

24 And then, we have maintained this liability
25 load for the Longley decision that changed the

1 treatment on longevity pay. We have an 84-basis-point
2 load to active member liabilities because of that.
3 We're keeping that just - probably it's better to keep
4 that little bit of a load in there, instead of
5 revisiting that whole study that actually was performed
6 before we got here. We reviewed it, and we felt it was
7 done well and had no reason to say that it's not
8 reasonable to have an 84-basis-point load on the
9 liabilities.

10 So I think, Ed, is that near - we've still
11 got more slides? Who put this together?

12 MR. RYOR: Wait. Can I have the last slide?
13 What was the - I don't have it in front of me. But
14 what did the 60 percent, what was that coming up? Was
15 that - was it 20 percent across the board, and one's
16 going to 30 and one's going to 60?

17 MR. GARRETT: Correct, correct. It was 20
18 percent across the board. And now, we're seeing
19 actually 30 percent for non-hazardous, 60 percent for
20 hazardous.

21 MR. RYOR: Perfect. Thank you.

22 MR. GARRETT: Okay. Yes, sir.

23 All right, Ed. I think the last parts are
24 the impact and then, Ed, the judges, I guess, we have
25 some slides (inaudible).

1 MR. KOEBEL: I have a couple slides, yeah.
2 Go ahead on this.

3 MR. GARRETT: All right. So here's SERS
4 financial impact. So we broke it up into two pieces
5 here. So the assumptions that we just went through is
6 the middle column. So the first column is the
7 valuation results that we've already performed last
8 year, June 30, 2020 valuation results; 38.5 percent
9 funded ratio; normal cost, 5.79. And, you know, the
10 funny period is 25.8 years, just based on the math of
11 breaking it in the different layers that we have.

12 So with the recommended assumptions, and
13 those recommended assumptions are all the things we
14 just discussed, including the 40 percent kick for Tier
15 I normal retirements and 20 percent for Tier I early
16 retirements, that's the middle column. And that is an
17 improvement in the funded ratio, the 38.8 percent.
18 Normal cost goes way up.

19 Tim, that's kind of what you - I think we had
20 more than one assumption that interacted this way, is
21 that, you know - well, no, actually, I think it is only
22 the mortality (inaudible).

23 MR. RYOR: (Inaudible) active mortality,
24 yeah.

25 MR. GARRETT: Yeah, so the active-

1 MR. RYOR: Generation.

2 MR. GARRETT: --mortality, because it's being
3 generationally projected, you know, they're living a
4 lot longer than maybe what we'd anticipate for a
5 retiree who is age 70 now. So we have a higher normal
6 cost rate, but a lower liability. You see that
7 unfunded accrued liability drops almost \$300 million.

8 So that's the middle column. Now what we did
9 is we said, okay, you know, we're all talking about
10 this 2022 run for the door. And I'm kind of - I'm
11 really indifferent whether we have an assumption in
12 this 2021 valuation, because, again, the money doesn't
13 come into the plan until 2023. So I don't get what
14 we're prefunding, when the retirements are actually
15 going to have occurred by June 1st, 2022, that we're
16 going to increase the funding.

17 Well, you know, by the time that money would
18 be going in, we'd kind of know what the loss is in that
19 next year. I mean, the advantage we have is maybe one
20 year of interest on the loss, if we put some money in
21 now. So with that, what we said is, let's assume
22 there's 20 percent more retirements for Tier II, Tier
23 II-A. And that's kind of the bigger - you know, that's
24 where a lot of the people are, in Tier II, Tier II-A.
25 And so with that, we increase - the liability goes up

1 about \$200 million, \$180 million, the funded ratio,
2 38.6, still better than the 2020 valuation. Normal
3 cost is up another seven basis points to 6.43 percent.

4 And then the total cost of the plan, about
5 54.69 percent. In money, that looks like it's about an
6 increase of around \$17 million. So again, it's not -
7 when we're talking about a \$2-million-ADEC, you know,
8 this is not - it's not that material to throw an
9 assumption in here, that we're going to assume 20
10 percent of the people who are eligible to retire by
11 2022 take it.

12 So I put that in here just for us to have
13 that discussion. This is something I kind of wanted to
14 talk about in the last meeting to kind of get some
15 feedback on since, to me, it's not that material that
16 we have it in the valuation. But we have some time
17 actually to make a decision on it too, because the
18 valuation is going to be undergoing, probably in
19 October, right, next month, and October is the big
20 month for retirements.

21 And I talked to John. And, you know, John is
22 going to, you know - he has his finger on the pulse of
23 what people are doing, and if he sees there's, you
24 know, a 20 percent increase in retirements, then, you
25 know, we can include that with the 2020 valuation. If

1 he sees it's 30 percent, we can kick it up. If he-

2 So just to - you know, one other thing too,
3 because I think nobody has a feel for what are we
4 talking about in numbers of people, right-

5 MR. RYOR: Yeah, I'm glad you're on there.
6 Thank you. This is Tim.

7 MR. GARRETT: Yeah, yeah. Well, I think you
8 mentioned that last time too, Tim.

9 MR. RYOR: Yeah.

10 MR. GARRETT: So I wanted to get that
11 together for you. So we would assume roughly 2,400
12 people retire a year. So the new assumptions, just the
13 new retirement assumptions, increases our expectation
14 by about 300 people. So from - the old assumptions
15 would have had predicted around 2,100 retirees. Now
16 we're predicting around 2,400 retirees. So we add 300
17 with the new retirement assumption, which, you know, is
18 over 10 percent. So I mean, that's quite a bit.

19 And then when we consider this 20 percent
20 kick for 2022, that's another 2,400 people. So
21 headcount-wise, it doubles really what we'd expect for
22 2022, which makes sense too, because now the Tier II
23 retirement rates are around 22 - you know, the bounce
24 from 20 percent up to 25 and down to 22.5 percent. So
25 throwing another 20 percent on there almost doubles

1 them. So that would be that.

2 Now, the key is, John, are we on path for
3 having 4,800 retirements in 2022? And, I guess, we
4 already have a couple months into the fiscal year, but-

5 MR. HERRINGTON: Yeah, as you were saying
6 that, I was actually looking at the headcount for this,
7 this year, right. I mean, I would say that I think for
8 all but one month, we have exceeded the historical
9 averages. But, I mean, I think that we're definitely
10 going to skew above 2,400. Whether we get to 4,800, a
11 lot of that is - as you said, it's going to depend on
12 where we are for October.

13 I will say, you know, we had, you know, just
14 this month, for September, we had 223 applications, and
15 we typically would expect about 170, maybe 160, for
16 this month. And September usually is one of our
17 lighter months.

18 MR. GARRETT: So that sounds about 50 percent
19 higher, instead of doubling. So maybe we're kind of
20 leaning more towards a 10 percent kicker. But I think
21 one thing you mentioned before, John, is that you'd
22 expect most of these people that elect to retire are
23 going to probably wait until the last day that they can
24 do it, right?

25 MR. HERRINGTON: Correct, right. I mean, I

1 guess the month where I would expect to see people move
2 would be this October, January, April, and then July.
3 I think that those are going to be the heaviest of the
4 months going forward. I would expect, right, we would
5 see, you know, of those, right, I would expect that we
6 would see, you know, from mid-October, of those four
7 months, January is probably going to be the lightest.
8 April is probably going to be the second heaviest. And
9 then, it's probably going to be July when people are
10 kind of, you know, waiting until the last minute to go
11 out.

12 But I do think, you know, October would be
13 somewhat of a bell weather for what we would
14 (inaudible) predict going forward.

15 MR. GARRETT: And so for you to get a pretty
16 good feel on the number of retirements you're going to
17 have in October, I mean, people are applying for them
18 all through August and September, I would guess, right?

19 MR. HERRINGTON: Right, correct. But I would
20 say, you know, there's a reason why we're somewhat
21 behind. We've kind of changed our administrative
22 process. So it used to be that each agency submitted
23 those applications. Now, there's a centralization
24 where, you know, all the executive branch agencies go
25 through one pod, and they are probably behind in the

1 paperwork compared to where we (inaudible).

2 MR. GARRETT: John, hopefully - I mean, I
3 hope you understand that that's not what I was
4 implying, that you're behind on anything, because
5 you're the client and I'm the consultant. You're doing
6 everything perfectly good.

7 And, no, but if we're doing the valuation
8 through - I mean, I'm thinking we typically would
9 present this to you - it's usually a November or a
10 December thing. But if we push this to a December -
11 well, we can use - you know, if you think you're going
12 to have some pretty good material for us to kind of
13 gauge whether we ought to have a kicker rate in here
14 for the '21 valuation, if we know that, I mean, if
15 that's going to be known by, say November, then - in
16 fact, it could be the last thing we do, and still
17 probably have the valuation done for the November Board
18 meeting, done, and actually, Tim, also to give you like
19 three or four days to read it too.

20 MR. RYOR: Beautiful. This is Tim again.
21 And, I mean, by then too, you'll have another year of
22 experience. And also, I would imagine you're going to
23 then see pretty significant asset gains.

24 MR. GARRETT: Yeah.

25 MR. RYOR: So from a budget standpoint, you

1 know, it's going to be pretty, you know - even with the
2 20 percent, it looks like a non-event as far as-

3 MR. GARRETT: Right.

4 MR. RYOR: --increases in ADEC.

5 MR. GARRETT: That's what I was hoping, that
6 you would see by that as even - I mean, 20 percent
7 doubles the number of retirements, and it's not moving
8 the needle in a horrible way, in my mind, either.

9 UNIDENTIFIED SPEAKER: That's (inaudible).

10 MR. GARRETT: So, yeah, I mean, we can kind
11 of play it by ear, and then maybe have a powwow about
12 this in maybe the October Actuarial Subcommittee
13 meeting. But that's going to be probably before John
14 can actually pull - accounting people are really - I
15 mean, just because they ask for an estimate, right, you
16 don't know if they're actually going to do it, right?

17 MR. HERRINGTON: Correct. But, I mean, I do
18 think, right, by the October Actuarial Subcommittee
19 meeting, we will know the number of applications that
20 we receive for October 1st.

21 MR. GARRETT: Okay.

22 MR. HERRINGTON: And there could be something
23 to, you know, glean from that.

24 MR. GARRETT: Right. Well, good. So why
25 don't we hold that last piece, that last assumption,

1 although that's an assumption really for the '21
2 valuation and not part of the experience study. So
3 we're saying, you know, if this is our recommendation
4 for the assumptions and methodologies going for the
5 next five years, but, you know, this is an additional
6 thing. And so let's think about, do we want to put a
7 load in for retirements, especially Tier II, Tier II-A
8 retirements, for 2022. So that's more of a valuation
9 issue than an experience study. So I'm saying, you
10 know, I wouldn't hold up the process of the commission
11 considering this study because of that.

12 You know, one more thing too. Based on some
13 of the work we did for the teachers' plan, and their
14 assets are similarly situated as SERS, yeah, I think
15 it's like around a 24 percent rate of return for fiscal
16 year '21, so, yeah, Ed and I will be able to wear our
17 lighter gray suits, because that's good news, right?

18 MR. RYOR: I'm going to be feeling better
19 about that smoothing method.

20 MR. GARRETT: Yeah, you're actually going to
21 see it move the other way now, right? So buckle your
22 seatbelt, Tim. You're actually going to get to see it
23 work the other way.

24 MR. RYOR: Yeah.

25 MR. GARRETT: In fact, I've already kind of

1 looked at it. I think it moves to about, you know, 98
2 percent of market, something like that.

3 But, yeah, so, I mean, the other thing too
4 that's out there is this potential - and I don't know
5 if the State Treasurer has decided where to put - I
6 think it's the leprechaun's pot of gold somebody found
7 there in Connecticut, that they're deciding on what
8 pension plan to put it into.

9 MR. FLORES: He has not yet.

10 MR. GARRETT: Okay. Okay. Well, so that
11 means if I get up there in person, do I have a chance
12 of getting a little piece? No? No. Okay. Yeah.
13 Yeah, I'm Irish, you know? I know about - I have a
14 leprechaun in my family, I think.

15 Okay. Ed, you want to take over with the
16 judges' experience studies?

17 MR. KOEBEL: Sure. I know you're all
18 exhausted already, so we'll go through this rather
19 quickly.

20 So this is the Judges, Family, Magistrates
21 and Compensation Commissioners Retirement System we'll
22 start with. So currently, with the withdrawals,
23 there's actually no assumption being used. We never
24 saw too many withdrawals. Most people, when they get
25 into the plan, they make it to retirement. However, we

1 did see nine withdrawals over this five-year period,
2 mostly on the compensation and family magistrate group,
3 not many of the judges.

4 But we are recommending just a small
5 assumption to account for these very few instances,
6 again, very minor assumption change. For retirements,
7 we actually saw more retirements than we expected. And
8 the current rates - and we didn't look at these, you
9 know, five years ago during the experience study, but
10 the current rates are only at age 65 and age 70. So it
11 just had a 50 percent assumption at age 65, and then
12 everybody else would go at 70, and they have to go at
13 70 in this plan.

14 But there was no retirement assumptions for
15 30 years of service because some folks make it to 30
16 years of service in this plan before they reach 65, and
17 there was no rates of retirement in between 65 and 70.
18 So we're recommending adding some rates of retirement
19 in between those, and lowering the amount of retirement
20 assumptions at age 65. Still 100 percent at age 70,
21 kicking those out.

22 And then the other three components,
23 mortality preretirement and postretirement, there's
24 such little data, it's not credible enough. So, you
25 know, we combined this with the SERS data to come up

1 with the SERS mortality tables. So we recommend using
2 the same mortality, and as John said, using the non-
3 hazardous, the general Pub table for these judges. For
4 disabilities, there was actually none over the five-
5 year period. So we're recommending decreasing the
6 rates of retirement for those folks as well.

7 For the salary scale, so current rates of
8 salary increases are four-and-a-half percent at all
9 ages, and that was broken down by the three-and-a-half
10 percent wage inflation plus the one percent merit. We
11 still think the one percent merit is okay, maybe not so
12 much for the judges, but for the other side of the
13 group. So we - with the decrease in the wage inflation
14 assumption from three-and-a-half to three, we feel like
15 that 50-basis-point change is good enough for right
16 now, and we'll stay a little conservative. So we'll
17 use a proposed rate going forward of four percent, so
18 we're going to lower that, again, for all ages. We
19 didn't really see any kind of credible - tied to
20 service or anything like that.

21 And the COLA rate for this group is actually
22 tied to the salary scale. And it's for those members
23 who are - and it's a declining population, but for
24 hired prior to January 1st of 1981, so they were hired
25 over 40 years ago, and then they retired before 2011.

1 So that group of retirees only is getting a COLA based
2 on that rate. So we're going to lower that assumption
3 to four percent as well.

4 So here's the impact of this, and it's very
5 minimal. You know, you had some offsetting things here
6 going on, retirement increased, but mortality and
7 salary scales decreased. So we have just a slight
8 decrease in the unfunded, just about a million dollars.
9 These numbers are whole numbers, not in thousands. So
10 just about a million-dollar decrease in the liability,
11 actually a 0.1 increase in the funded ratio, and you
12 see the contribution requirement is pretty much the
13 same.

14 Going forward onto the probate judges,
15 withdrawals, we do have an assumption for that, for
16 these folks, and there were actually more withdrawals
17 than we expected over the five-year period. However -
18 that was over the five-year period. However, when we
19 broke it down by year, we actually had small losses in
20 the 2019 and 2020 val's that were very minor, and we
21 basically hit the number, a headcount almost right on
22 over the last two years. I think it was 23 versus 22.

23 So we feel like the withdrawal assumption is
24 good even though it wasn't so good over the five years.
25 It could have been data cleanup in that past - before

1 the last two val's. But the last two val's, we feel
2 like the assumption hit it pretty closely. So we
3 recommend no change.

4 Pretty much same thing on retirements. There
5 were 45 actual retirements. We expected 52. There was
6 a small aggregate gain. And we're just going to
7 recommend just a small little adjustment in those
8 rates, but really didn't have much impact on the
9 results. For these guys, the mortality is exactly the
10 same. We're recommending the SERS non-hazardous group
11 table. And disabilities, there were none. We have a
12 very small probability of disability anyway. So we
13 recommend no change.

14 And as far as the salary scale, their salary
15 scales were significantly less, and if we went back to
16 that table at the beginning, you saw a huge salary gain
17 for this group percentagewise. I think it was over
18 four percent of the accrued liability. So it was
19 rather large. So we really want to drop that pretty
20 significantly going forward.

21 Again, this has four-and-a-half percent at
22 all ages based on the three-and-a-half to the one.
23 We're already going to the three percent on the wage
24 inflation. We feel like another quarter of a basis - a
25 quarter of a percent on the merit scale would suffice.

1 So we go down to 3.75 percent for all ages there.

2 And then here's their plan. Their plan is
3 over 100 percent funded. Remember they made that big
4 contribution earlier this year that really put them
5 over the 100 percent and has a surplus unfunded accrued
6 liability. Well, these assumptions are building onto
7 that surplus and making even a larger funded ratio.

8 So their requirement on contribution will
9 actually - is anticipated to go down. Even with the
10 asset returns, it's going to even go further down.
11 Though this plan, we do - we are - the contribution is
12 equal to the normal cost. So, you know, there's no -
13 even if this is a huge surplus and 120 percent, this
14 plan, based on the funding policy, will still pay the
15 normal cost of the plan. So just a slight little
16 decrease due to the cost.

17 MR. GARRETT: And, you know, that was a
18 method we really kind of recommended, what, in probably
19 2016, Ed-

20 MR. KOEBEL: Yeah.

21 MR. GARRETT: --for the judges - for these
22 small plans and judges' plans. And actually, it's not
23 a bad policy to have for any of them. It's just, you
24 know, the others wouldn't have to worry about being
25 overfunded for quite a while. But at some point, maybe

1 when this plan is, you know, 120 percent overfunded or
2 something, then we'd maybe discuss exactly how we want
3 to start, you know, metering out that surplus as far as
4 potential to reductions and employer contributions of
5 normal cost.

6 So, you know, there's some point, but not a
7 whole lot of plans in the country have this to worry
8 about. So it's a good problem to have. But it might
9 be a topic of discussion.

10 Well, Ed, you're young enough. They'll
11 probably - you know, you'll see 120 percent funded in
12 the PJERS, yeah.

13 MR. KOEBEL: I hope so. And that's the end
14 of those two little plans.

15 Any other questions?

16 MR. RYOR: It might - it does have gains,
17 right? This is Tim.

18 MR. KOEBEL: Yeah. Yeah, we might. Yeah.

19 MR. RYOR: Yeah.

20 MR. KOEBEL: Very well might.

21 MR. GARRETT: Well, and I know this is a
22 brutal kind of presentation. The good thing is we
23 don't have to do it again next month, I don't think,
24 right. But, you know, I just hope you guys aren't on
25 your deathbed thinking, damn, if I didn't spend that

1 time in that experience study presentation, I'd have
2 another two hours to actually enjoy life. So I hope
3 Ed, you know, doesn't have a flashback.

4 MR. ADOMEIT: Okay. Well, John and Ed, are
5 you at the end of your presentations?

6 MR. GARRETT: That is. So I think the plan
7 would be that this would be for the September 15th -
8 well, the subcommittee is the 15th. I think the
9 commission meeting is the 16th, is that right? So we
10 want to do it ahead of time in case, you know, we
11 wanted - you guys wanted us to, you know, make some
12 tweaks here and there. We'd have a couple weeks to get
13 that done, and then present it again with those tweaks.
14 But without - you know, if there's no other questions
15 or any additional work we need to do on it, then we can
16 finalize this.

17 I know there's some typos and stuff we still
18 need to fix. I did go to Georgia public high schools.
19 I mean, you're lucky. I have a garage full of commas
20 because I've been told, I never use them. So I have
21 boxes of commas in my garage. If you all need any up
22 there, just let me know. I can go in-

23 But we'll - you know, we'll have some text
24 edits. Anything material, we'll let you all know
25 about. But, you know, we did find a couple things that

1 needed to be fixed from the first draft to the second
2 that we're - you know, in our mind, reason for us to
3 point out to you all. But the grammar stuff and all
4 that, we'll probably just make the changes, have a
5 final version for the commission meeting on the 16th.
6 And unless we want to discuss this again on the 15th -
7 we'll wait and see the agenda. If you all have us on
8 there, we're happy to go through any of the questions
9 you may have at that point too.

10 MR. RYOR: This is Tim. Maybe it's just one
11 follow-up if - on that last - you know, the decision
12 point seemed to be surrounding that retirement. If you
13 could do 30 percent just so we can have an increment
14 just so, you know - or 10, whatever you think is
15 appropriate, and give us those numbers, all right,
16 4,800 retirees; here's fifty-two; here's what it would
17 do to the dollar contribution; just so we can have that
18 picture.

19 So then when John does get the data, we can
20 say, all right, it looks like there are going to be
21 6,000 retirees or whatever, we can kind of-

22 MR. GARRETT: Yeah. So right now, we have
23 zero and we have 20. You want us to do 10 and 30? And
24 so we'll do - we want to include this in the report,
25 right. The report is done, but we'll give you the-

1 MR. RYOR: Yeah, just to get it-

2 MR. GARRETT: The spreadsheet that shows the
3 counts, headcounts of retirements, the net effects, and
4 then what the impact is to the valuation results as of
5 2020.

6 MR. RYOR: Okay, perfect. And maybe add to
7 that ADEC display, the dollars.

8 MR. GARRETT: Okay. Yeah, you know-

9 MR. RYOR: To do the math on our head
10 (inaudible). What does 0.22 percent do to the-

11 MR. GARRETT: Tim, I'm pretty - yeah. So I
12 did look at it. I think it's \$17 million to go from
13 the last - from the actual 2020 valuation to the full
14 assumptions, including the 20 percent kicker rates for
15 retirements. That was around \$17 million of increase.
16 I think without that is only a \$3-million increase, if
17 we have zero rates for the kickers. So-

18 MR. RYOR: Okay.

19 MR. GARRETT: But the dollar amount does go
20 up even though, you know, it's just that change in the
21 normal cost is driving cost harder than the drop in the
22 amortization cost. Ed.

23 MR. ADOMEIT: Peter Adomeit here. John, will
24 there be changes at all between now and the commission
25 meeting? I assume there going to be some minor ones.

1 Am I correct?

2 MR. GARRETT: If there are any, the only
3 thing I would anticipate is we might find some more
4 commas to put there.

5 MR. ADOMEIT: The reason I ask the question
6 is whether it's necessary to present this another time
7 before the commission meeting, or whether we are
8 prepared to recommend its acceptance in its current
9 form.

10 MR. GARRETT: And, Mr. Chairman, you are a
11 glutton for punishment then, if you want us to go
12 through (inaudible) again.

13 MR. ADOMEIT: No, I'm not suggesting you do,
14 but if you're make changes, then perhaps-

15 MR. GARRETT: Right. Well, this is what -
16 what we can do-

17 MR. ADOMEIT: Yeah.

18 MR. GARRETT: --is when we finalize this,
19 we'll note any material changes, especially if any of
20 the numbers change-

21 MR. ADOMEIT: All right.

22 MR. GARRETT: --if we have rates in here
23 wrong. And we'll send that out with the draft in an
24 email that says, here's what - here is the material
25 changes. If there are no material changes, any

1 typographical, we'll note that too.

2 MR. ADOMEIT: All right.

3 MR. GARRETT: And then you guys decide if you
4 want us to present it again at the 15th meeting.

5 MR. ADOMEIT: Sure enough. Sure enough.

6 MR. GARRETT: And we'll have that final
7 version out, I would say, early next week.

8 MR. ADOMEIT: Okay. Very nice. Are there
9 any other questions or comments?

10 Well, thank you, John. Thank you, Ed.

11 MR. GARRETT: Pleasure.

12 MR. ADOMEIT: I love your slides. It makes
13 it very simple.

14 MR. GARRETT: Thank you.

15 MR. ADOMEIT: I think we're at the end of our
16 agenda. That means we need a motion to adjourn.

17 MR. RYOR: This is Tim Ryor. I will make
18 that motion.

19 MR. ADOMEIT: Okay, Tim.

20 MR. POULIN: This is Claude. Second.

21 MR. ADOMEIT: All right. All in favor, say
22 aye, or raise your hand.

23 UNIDENTIFIED SPEAKERS: Aye.

24 MR. ADOMEIT: Opposed, nay, or raise your
25 hand. The ayes have it.

1 MR. GARRETT: Thank you all very much.

2 MR. ADOMEIT: Nice to see you all.

3 MR. GARRETT: Thank you.

4 (Adjourned at 4:45 p.m.)

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I, Karin A. Empson, do hereby
certify that the preceding pages are an accurate
transcription of the Connecticut State Employees
Retirement Commission, Actuarial Subcommittee meeting
held electronically via Zoom, conducted at 3:04 p.m. on
September 1, 2021.

Karin A. Empson

Karin A. Empson

10/04/2021

Date