CITY OF PHILADELPHIA SINKING FUNDS COMMISSION Monday, November 25, 2019

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LOCATION: Two Penn Center Plaza

16th Floor

Philadelphia, Pennsylvania

REPORTED BY: Amy Marzario,

Court Reporter

PRESENT: DONN SCOTT, CHAIRMAN

CHRISTOPHER DIFUSCO

MARC AMMATURO REBECCA RHYNHART CHRISTIAN DUNBAR NICHOLAS HAND

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1		1	go grab a couple copies for you.
2	PROCEEDINGS	2	MR. AMMATURO: Everyone has
3		3	the October in front of them?
4	MR. SCOTT: Good morning,	4	MS. RHYNHART: Marc, can you
5	everyone. It's my pleasure to call this	5	remind me what PineBridge is? Is that an
6	meeting of the Sinking Funds Commission to	6	active manager?
7	order. The first order of business is the	7	MR. AMMATURO: It's an
8	approval of the minutes. Is there a motion?	8	enhanced index so it's active but it's I
9	MS. RHYNHART: I'll motion.	9	think they call themselves an enhanced index
10	MR. SCOTT: All right. Is	10	so adding a little bit over the index. So
11	there a second?	11	not truly active so it's kind of a quasi
12	MS. RHYNHART: I can't second	12	MS. RHYNHART: So what's the
13	it.	13	expense on that?
14	MR. DIFUSCO: You can second	14	MR. AMMATURO: It's low. I
15	it.	15	don't know the number off the top of my
16	MR. SCOTT: Oh, I second it?	16	head, Rebecca. I can get that.
17	Okay. The motion has been made and properly	17	MS. RHYNHART: But it's more
18	seconded. All those in favor say aye.	18	in line
19	MS. RHYNHART: Aye.	19	MR. AMMATURO: It's more in
20	MR. SCOTT: We're going to	20	line with
21 22	move to item number four on the agenda,	21 22	MS. RHYNHART: like with
23	Investment Performance Review. Christopher,	22	the eight or ten basis points, maybe a
24	I'll turn it over to you. MS. RHYNHART: Do you want to	24	little bit more but not like 80 basis points?
24	MS. KITTNIIAKT. Do you want to	24	points:
	Page 3		Page 5
1	we have management and the union here.	1	MR. AMMATURO: Exactly. I
2	Do we want to just invite them up?	2	can get that number to you.
3	MR. SCOTT: Absolutely.	3	MS. RHYNHART: It's okay.
4	MS. RHYNHART: Okay.	4	MR. AMMATURO: It's closer to
5	MR. SCOTT: Come on up,	5	an index fund fee than an active management
6	please.	6	fee for sure.
7	MS. RHYNHART: Just 'cause	7	MS. RHYNHART: Okay. I was
8	it's your pension fund.	8	just looking at it and I was thinking, Oh,
9	MR. DIFUSCO: So we put the	9	that's a big allocation. But I'm like I'm
10	September and the October numbers in.	10	sure we did it okay. So that makes more
11	Obviously, the September numbers are a	11	sense, an enhanced index.
12	little stale at this point given that it's	12	MR. AMMATURO: And I'm going
13	November 25th.	13 14	to be talking about them in a second,
1 /		4	actually. But let me take a step back.
14	MR. SCOTT: And my question		
15	is do we have the numbers to share with	15	I'll get to PineBridge in one second if
15 16	is do we have the numbers to share with these guys?	15 16	I'll get to PineBridge in one second if that's okay. But the October 31st update
15 16 17	is do we have the numbers to share with these guys? MR. DIFUSCO: Yeah. I'll	15 16 17	I'll get to PineBridge in one second if that's okay. But the October 31st update should be in the book there.
15 16 17 18	is do we have the numbers to share with these guys? MR. DIFUSCO: Yeah. I'll make them copies in a second.	15 16 17 18	I'll get to PineBridge in one second if that's okay. But the October 31st update should be in the book there. The market value is up to
15 16 17 18 19	is do we have the numbers to share with these guys? MR. DIFUSCO: Yeah. I'll make them copies in a second. MR. SCOTT: Okay, thanks.	15 16 17 18 19	I'll get to PineBridge in one second if that's okay. But the October 31st update should be in the book there. The market value is up to \$551,922,841.00 as of the end of October.
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15 16 17 18 19 20 21 22	is do we have the numbers to share with these guys? MR. DIFUSCO: Yeah. I'll make them copies in a second. MR. SCOTT: Okay, thanks. MR. DIFUSCO: So I had asked more questions on the September numbers and the focus is mainly on October just because	15 16 17 18 19 20 21 22	I'll get to PineBridge in one second if that's okay. But the October 31st update should be in the book there. The market value is up to \$551,922,841.00 as of the end of October. You can see just for the month of October this plan was up 1.7%. You can see that brings your year to date, three or four
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	Page 6		Page 8
1	and has a net of fees. I'll note that it's	1	been a good place to be for passive
2	obviously strong on an absolute basis but	2	investing. Domestic equity index funds have
3	it's also strong on a relative basis. So	3	done really well and you've had almost 28
4	there's 12 basis points of outperformance	4	over 28% of the indexing through Rhumbline
5	relative to the index. So, again, slight	5	and Northern Trust.
6	outperformance.	6	The one manager that the Controller
7	The reason for that slight	7	brought up, PineBridge, we're actually going
8	outperformance is because you're overweight	8	to be recommending watchlist for PineBridge.
9	in domestic equity and domestic equity has	9	If you look at the one-year number, they are
10	been the best asset class. Your three-year	10	up 10.7%. The benchmark's up over 14%.
11	number is now 9.7. Your five-year number is	11	They've only been in your portfolio since
12	now creeping close to 7%. And, again, your	12	2017 if you look all the way to the far
13	three-year number is now 9.7% and your	13	right.
14	five-year number is now creeping closer to	14	Again, they are up, on an actual
15	7. It's at 6.98.	15	basis, strong at 9 and a half.
16	You know, why the before I get	16	Unfortunately, the benchmark is up 10.8.
17	into the managers, you know, the U.S.	17	They're a quantitative enhanced index
18	economy is slowly growing, growing	18	manager and one of the key factors they look
19	positively. The last reading was 1.9%.	19	for is valuation, so what stocks are trading
20	Consumer confidence continues to be high.	20	basically low.
21	The Fed reduced rates three times this	21	So I'm just coming up on
22	calendar year. You put all those three	22	PineBridge. We see the performance of the
23	things together and that's been a tailwind	23	headwind and into I'm trying to get into
24	to the stock market for 2019.	24	why now. One of the key factors that they
			·
	Page 7		Page 9
1	There are obviously some headwinds	1	look for in their quant model is valuation,
2	such as the ongoing impeachment hearings,	2	valuation meaning the stocks that are cheap
3	the trade talk with China, what's going on	3	they tend to buy. Low value has
4	in Hong Kong in terms of protests. There's	4	underperformed as of late.
5	a lot of headwinds but the U.S. economy is	5	Again, low value stocks have
6	still growing. Consumer confidence is still	6	underperformed and that's been a major,
7	high. The Fed cut rates three times. All	7	major headwind. Some stocks that are
8	that's been for the stock market.	8	considered low value that have
9	Going back to the end of the fourth	9	underperformed including some household
1 0		10	
10	quarter of 2018, you might recall a		names like Johnson & Johnson, Berkshire
11	significant selloff so some of this is kind	11	Hathaway, Exxon Mobile, these are three
11 12	significant selloff so some of this is kind of a bounce back from that selloff of last	11 12	Hathaway, Exxon Mobile, these are three large moldings in their plan that are
11	significant selloff so some of this is kind of a bounce back from that selloff of last year in the fourth quarter. So that's	11 12 13	Hathaway, Exxon Mobile, these are three
11 12	significant selloff so some of this is kind of a bounce back from that selloff of last	11 12 13 14	Hathaway, Exxon Mobile, these are three large moldings in their plan that are
11 12 13	significant selloff so some of this is kind of a bounce back from that selloff of last year in the fourth quarter. So that's what's going on at a high level. But in terms of your managers, when	11 12 13 14 15	Hathaway, Exxon Mobile, these are three large moldings in their plan that are negative on a year-to-date basis and a negative on the quarter. So that's been a major headwind for PineBridge.
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3 (Pages 6 to 9)

	Dog 10		Daga 10
_	Page 10	_	Page 12
1	management. We would think that the	1	We're not going to terminate them next month
2	dispersion would be lower going back 12	2	or next quarter I wouldn't think. It's just
3	months for PineBridge. So that	3	heightened scrutiny but it's one step closer
4 5	MS. RHYNHART: What have they	4 5	potentially to making a change as opposed
6	said? Have you spoken with them? What have they said about it?	6	to, you know, the rest of the managers so it's higher scrutiny for us. Do you want to
7	MR. AMMATURO: Yeah. The one	7	chime in on that or do you agree with that?
8	thing I just walked through right now is the	8	MR. DIFUSCO: I share your
9	valuation factors. They really looked for	9	concerns. You and I had talked about this
10	three factors in their quant model. One is	10	and I think I talked with Alex about it a
11	sentiment, one is quality, and one is	11	few weeks ago. When we hired them, I mean,
12	valuation. The valuation factor has been a	12	and you summed it up pretty well, that
13	significant headwind. They're buying stocks	13	they're obviously inexpensive for an active
14	that are very, very cheap and unfortunately	14	manager. I think they're 16 basis points,
15	they are not performing well.	15	if I'm off, 16 or 18. I can get you the
16	MS. RHYNHART: So it's just	16	exact number. It's very cheap for active
17	their strategy hasn't worked?	17	management.
18	MR. AMMATURO: One of their	18	But what they sold us, so to speak,
19	three key factors has not been in their	19	and what their model shows as, you're right,
20	favor. So it's an argument or a I	20	they shouldn't because of how they run
21	shouldn't say argument. It's a rationale	21	the strategy, they shouldn't be deviating
22	that we can get our head around. It kind of	22	from the benchmark by 3%. If they miss, you
23	makes sense. This is one of their key	23	would expect a much smaller miss. And if
24	metrics. We did take a look.	24	they'd outperform, you would expect a much
	Page 11		Page 13
1	Low value is not working so far in	1	tighter outperformance.
2	2019 so we can get our head around that.	2	So I concur with the watchlist
3	That kind of makes sense. It's consistent	3	recommendation. I may be slightly closer to
4	with their strategy so they're not changing	4	recommending the, you know, termination
5	their stripes. But it's more to the extent	5	
6))	window to PFM. That might be where we part
	of the miss.	6	window to PFM. That might be where we part slightly. But other than that, I agree with
7			slightly. But other than that, I agree with
	Again, 3 and a half percent on a one-year basis for a low trend error manager	6	
7	Again, 3 and a half percent on a	6 7	slightly. But other than that, I agree with everything that they said.
7 8 9 10	Again, 3 and a half percent on a one-year basis for a low trend error manager is a lot so that's the reason. It's not like we were surprised in what they told us.	6 7 8 9 10	slightly. But other than that, I agree with everything that they said. MS. RHYNHART: Okay. Thanks. Do we have to take official action on that? MR. SCOTT: I would assume.
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	Page 14		Page 16
1	MR. DIFUSCO: Correct.	1	If you look at the quarter column,
2	MS. RHYNHART: The watchlist?	2	1.84% positive versus a benchmark that's
3	Not termination, watchlist?	3	slightly negative. So good outperformance
4	MR. DIFUSCO: Yes, correct.	4	is really early. You can see these managers
5	MR. SCOTT: Okay. Is there a	5	were just higher
6	motion?	6	MS. RHYNHART: Higher, yeah.
7	MS. RHYNHART: I'll make a	7	MR. AMMATURO: in August
8	motion to put PineBridge on watchlist.	8	of this year. So, again, it's very, very
9	MR. SCOTT: So a motion has	9	early to make any sort of conclusions but
10	been made. Is there a second?	10	Copeland's off to an exceptional start. If
11	MR. DUNBAR: Second.	11	you look all the way to the far right again,
12	MR. SCOTT: Okay. All those	12	they're actually positive 2.9. The
13	in favor, say aye.	13	benchmark is negative 2.4. They're
14	MS. RHYNHART: Aye.	14	underweight in the healthcare sector.
15	MR. DUNBAR: Aye.	15	Healthcare has been at has faced
16	MR. SCOTT: Thank you. How	16	some serious headwinds so being underweight
17	long do you normally stay on the watchlist	17	in that sector has helped Copeland. They're
18	or is it a function of discretion?	18	overweight in consumer staples and consumer
19	MR. DIFUSCO: That's a good	19	staples have been a good place to be in
20	question.	20	calendar year 2019. So their sector weights
21	MR. SCOTT: And do they know	21	have been very beneficial to their relative
22	that they're on the watchlist?	22	performance but all in all, a very, very
23	MR. DIFUSCO: Yeah, they'll	23	good start for Copeland small cap.
24	be notified. And I don't want to give I	24	Rhumbline, you can see
	be notified. That I don't want to give I		ratamonne, you can see
	Page 15		Page 17
	rage 13		rage 17
1		1	
1 2	mean, the answer depends. Obviously, if	1 2	benchmark-like performance. If you look all
	mean, the answer depends. Obviously, if their performance was to improve, you know,		benchmark-like performance. If you look all the way to the far right, 0.99 versus 0.6.
2	mean, the answer depends. Obviously, if	2	benchmark-like performance. If you look all the way to the far right, 0.99 versus 0.6. They just got into the plan in August of
2 3 4	mean, the answer depends. Obviously, if their performance was to improve, you know, substantially, they would come off the watchlist.	2 3 4	benchmark-like performance. If you look all the way to the far right, 0.99 versus 0.6. They just got into the plan in August of last year I mean, in August of this year.
2 3 4 5	mean, the answer depends. Obviously, if their performance was to improve, you know, substantially, they would come off the watchlist. If it deteriorates, you would be	2 3 4 5	benchmark-like performance. If you look all the way to the far right, 0.99 versus 0.6. They just got into the plan in August of last year I mean, in August of this year. I'm sorry.
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1	5, good outperformance for those periods as	1	income, also overweight in the corporate
2	well if you're international equity	2	sector, up over 10% for the year now, 10.1
3	composite. The most recent additions in	3	versus 8.8. They also have a very, very
4	this asset class are Acadian and Earnest	4	small piece of high yield. About 3% of the
5	Partners. You can see all the way to the	5	plan is high yield. It's not exceptional
6	far right there again. They were just hired	6	which we'll see in a second.
7	in May in June of 2019.	7	Met Life investment incurred a
8	Fixed income. Similar theme here.	8	credit on a year-to-date basis, slightly
9	If you look at the year-to-date column, it's	9	underperformed, 13.01 versus 13.4. But on
10	good to see outperformance. Again, it's a	10	an absolute basis, obviously a very strong
11	very strong margin of not only the equity	11	manager strong return, I should say.
12	side but the bond side. Bonds are up over	12	Lozard up 7.16 for the year versus 6 and a
13	8% in 2019. Why? Because ten-year	13	half, very benchmark-like performance for
14	treasuries have significantly declined.	14	the month.
15	It's an inverse relationship.	15	Garcia Hamilton, another fixed
16	So when long-term rates decline to	16	income manager you have that's overweighted
17	the magnitude that they have in 2019, bond	17	in the corporate sector. For the year,
18	prices rally. So quarter bonds, again, are	18	they're of benchmark-like. They're at 6.25
19	up over 8% this year. That's not a return	19	versus 6.8. And for the month, they're
20	you want to get used to seeing moving	20	benchmark-like; 0.32 versus 0.4.
21	forward to be quite clear to segue into the	21	And then your high-yield manager.
22	next conversation. But, again, that is not	22	High yield, like I mentioned already, has
23	and you can put that in the minutes.	23	done exceptional this year. If you look at
24	That is not I don't guarantee stuff.	24	the year-to-date column, high yield is up
			y
	Page 19		Page 21
			rage zi
1	So fixed income. Fixed income for	1	
1 2	So fixed income. Fixed income for the year up 9%, 9.02. The benchmark is 8.8.	1 2	over 11%. Sky Harbor's up 11.76. The
2	the year up 9%, 9.02. The benchmark is 8.8.		over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight.
	the year up 9%, 9.02. The benchmark is 8.8. So, again, even in a very broad, very strong	2	over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight. The energy sector. Energy sector
2 3 4	the year up 9%, 9.02. The benchmark is 8.8. So, again, even in a very broad, very strong market, you see some incremental return	2 3 4	over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight. The energy sector. Energy sector has not been the place to be in 2019 so
2 3	the year up 9%, 9.02. The benchmark is 8.8. So, again, even in a very broad, very strong market, you see some incremental return which is great to see. Not so much for the	2 3	over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight. The energy sector. Energy sector has not been the place to be in 2019 so that's been a tailwind to their relative
2 3 4 5	the year up 9%, 9.02. The benchmark is 8.8. So, again, even in a very broad, very strong market, you see some incremental return	2 3 4 5	over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight. The energy sector. Energy sector has not been the place to be in 2019 so that's been a tailwind to their relative performance for the quarter, for the fiscal
2 3 4 5 6	the year up 9%, 9.02. The benchmark is 8.8. So, again, even in a very broad, very strong market, you see some incremental return which is great to see. Not so much for the month or the quarter, but on a year-to-date	2 3 4 5 6	over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight. The energy sector. Energy sector has not been the place to be in 2019 so that's been a tailwind to their relative performance for the quarter, for the fiscal year, and for the year-to-date period. This might have been mentioned in
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2 3 4 5 6 7 8 9	the year up 9%, 9.02. The benchmark is 8.8. So, again, even in a very broad, very strong market, you see some incremental return which is great to see. Not so much for the month or the quarter, but on a year-to-date basis, you know, getting straight outperformance and this is net of fees to about the tune of 17 basis points on a	2 3 4 5 6 7 8 9	over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight. The energy sector. Energy sector has not been the place to be in 2019 so that's been a tailwind to their relative performance for the quarter, for the fiscal year, and for the year-to-date period. This might have been mentioned in the past but just FYI, Weavers Barksdale is
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the year up 9%, 9.02. The benchmark is 8.8. So, again, even in a very broad, very strong market, you see some incremental return which is great to see. Not so much for the month or the quarter, but on a year-to-date basis, you know, getting straight outperformance and this is net of fees to about the tune of 17 basis points on a year-to-date basis. So why? Weavers Barksdale. Weavers Barksdale, again, if you can look at the year-to-date column, outperformed by about 60, 70 basis points. The theme on your fixed income side is these measures tend to be overweight to the corporate sector within the bond market and that's been a good place to be in 2019.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight. The energy sector. Energy sector has not been the place to be in 2019 so that's been a tailwind to their relative performance for the quarter, for the fiscal year, and for the year-to-date period. This might have been mentioned in the past but just FYI, Weavers Barksdale is now a female majority owned firm earlier this year. They're now owned by six females that own 51% of the firm. That occurred in August. I just don't recall if it was discussed at a prior meeting but Weavers Barksdale, again, they have 40 million of your pension plan. They're now female majority owned. So those are my comments on the month of October.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the year up 9%, 9.02. The benchmark is 8.8. So, again, even in a very broad, very strong market, you see some incremental return which is great to see. Not so much for the month or the quarter, but on a year-to-date basis, you know, getting straight outperformance and this is net of fees to about the tune of 17 basis points on a year-to-date basis. So why? Weavers Barksdale. Weavers Barksdale, again, if you can look at the year-to-date column, outperformed by about 60, 70 basis points. The theme on your fixed income side is these measures tend to be overweight to the corporate sector within the bond market and that's been a good place to be in 2019. Default rates are not increasing. Rates have come down which has led to rallies in bond prices. So corporates have	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight. The energy sector. Energy sector has not been the place to be in 2019 so that's been a tailwind to their relative performance for the quarter, for the fiscal year, and for the year-to-date period. This might have been mentioned in the past but just FYI, Weavers Barksdale is now a female majority owned firm earlier this year. They're now owned by six females that own 51% of the firm. That occurred in August. I just don't recall if it was discussed at a prior meeting but Weavers Barksdale, again, they have 40 million of your pension plan. They're now female majority owned. So those are my comments on the month of October. MR. SCOTT: Any questions before we move to the next category? (No response). MR. SCOTT: There being none, I guess we will go back up to number 3,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the year up 9%, 9.02. The benchmark is 8.8. So, again, even in a very broad, very strong market, you see some incremental return which is great to see. Not so much for the month or the quarter, but on a year-to-date basis, you know, getting straight outperformance and this is net of fees to about the tune of 17 basis points on a year-to-date basis. So why? Weavers Barksdale. Weavers Barksdale, again, if you can look at the year-to-date column, outperformed by about 60, 70 basis points. The theme on your fixed income side is these measures tend to be overweight to the corporate sector within the bond market and that's been a good place to be in 2019. Default rates are not increasing. Rates have come down which has led to rallies in bond prices. So corporates have done well and that's a major theme within	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	over 11%. Sky Harbor's up 11.76. The benchmark's at 11.71. They're underweight. The energy sector. Energy sector has not been the place to be in 2019 so that's been a tailwind to their relative performance for the quarter, for the fiscal year, and for the year-to-date period. This might have been mentioned in the past but just FYI, Weavers Barksdale is now a female majority owned firm earlier this year. They're now owned by six females that own 51% of the firm. That occurred in August. I just don't recall if it was discussed at a prior meeting but Weavers Barksdale, again, they have 40 million of your pension plan. They're now female majority owned. So those are my comments on the month of October. MR. SCOTT: Any questions before we move to the next category? (No response). MR. SCOTT: There being none,

	Page 22		Page 24
1	MS. RHYNHART: Did you want	1	has changed in the decade but as of
2	us to go?	2	September 2009, the funding status of the
3	MR. DIFUSCO: Yeah. We	3	plan was 68%.
4	didn't even know how much we were going to	4	And then on slide 4, the first
5	go but we've already been through this	5	thing we looked at was the cash flow, the
6	allocation piece twice. So I figured after	6	plan's cash flow. So what that is is the
7	your presentation if folks had questions or	7	total contributions from the employees and
8	if they wanted to take everything kind of	8	from PGW minus the factored payments and
9	under advisement. But Don and I were	9	other sort of miscellaneous expenses, so
10	talking and I didn't know if we were going	10 11	looking at that difference.
11 12	to go through a lot of it this time. MS. RHYNHART: Okay. So I'd	12	And it's a pretty standard way to analyze the fiscal health of the pension
13	just like to invite Nick Hand from my office	13	plan and it provides a measure of that gap
14	up to the table. So just by way of	14	between contributions and payments. That
15	background, the Controller's office did a	15	provides the measure of how much the plan
16	similar analysis of the City's main pension	16	depends on the investment return to make up
17	plan several months back looking at risk and	17	that gap.
18	return and making some recommendations.	18	And, historically, the plan's cash
19	So we decided to do the same thing	19	flow has been negative, meaning that the
20	with the PGW plan. Nick heads my Finance	20	plan pays out more in benefits than
21	Policy and Data Unit and is going to be	21	contributions it gets in. I think the most
22	presenting it. It shouldn't take more than	22	recent numbers, contributions are in sort of
23	about 10 or 15 minutes but he's going to	23	the 30 million range. That's 30, 31
24	walk you through if that works.	24	million. And the contributions are in
	Page 23		Page 25
1	MR. SCOTT: Okay.	1	sorry, and the benefit payments are in the
2	MR. SCOTT: Okay. MS. RHYNHART: And I think	2	sorry, and the benefit payments are in the 55, 60 million dollar range.
2 3	MR. SCOTT: Okay. MS. RHYNHART: And I think we're on Tab 6. It definitely should be	2 3	sorry, and the benefit payments are in the 55, 60 million dollar range. MS. RHYNHART: And that's
2 3 4	MR. SCOTT: Okay. MS. RHYNHART: And I think we're on Tab 6. It definitely should be blue.	2 3 4	sorry, and the benefit payments are in the 55, 60 million dollar range. MS. RHYNHART: And that's contributions from PGW as well as employees.
2 3 4 5	MR. SCOTT: Okay. MS. RHYNHART: And I think we're on Tab 6. It definitely should be blue. MR. HAND: Okay. Good	2 3 4 5	sorry, and the benefit payments are in the 55, 60 million dollar range. MS. RHYNHART: And that's contributions from PGW as well as employees. MR. HAND: And employees,
2 3 4 5 6	MR. SCOTT: Okay. MS. RHYNHART: And I think we're on Tab 6. It definitely should be blue. MR. HAND: Okay. Good morning, everyone. So we looked at various	2 3 4 5 6	sorry, and the benefit payments are in the 55, 60 million dollar range. MS. RHYNHART: And that's contributions from PGW as well as employees. MR. HAND: And employees, exactly. So it's about a million from the
2 3 4 5 6 7	MR. SCOTT: Okay. MS. RHYNHART: And I think we're on Tab 6. It definitely should be blue. MR. HAND: Okay. Good morning, everyone. So we looked at various aspects of the plan and I'll walk through	2 3 4 5 6 7	sorry, and the benefit payments are in the 55, 60 million dollar range. MS. RHYNHART: And that's contributions from PGW as well as employees. MR. HAND: And employees, exactly. So it's about a million from the employees and about 29 or so from PGW.
2 3 4 5 6 7 8	MR. SCOTT: Okay. MS. RHYNHART: And I think we're on Tab 6. It definitely should be blue. MR. HAND: Okay. Good morning, everyone. So we looked at various aspects of the plan and I'll walk through them briefly in this kind of presentation.	2 3 4 5 6 7 8	sorry, and the benefit payments are in the 55, 60 million dollar range. MS. RHYNHART: And that's contributions from PGW as well as employees. MR. HAND: And employees, exactly. So it's about a million from the employees and about 29 or so from PGW. So on slide 5, the first chart
2 3 4 5 6 7 8 9	MR. SCOTT: Okay. MS. RHYNHART: And I think we're on Tab 6. It definitely should be blue. MR. HAND: Okay. Good morning, everyone. So we looked at various aspects of the plan and I'll walk through them briefly in this kind of presentation. But on slide 2, that's an outline of what	2 3 4 5 6 7 8 9	sorry, and the benefit payments are in the 55, 60 million dollar range. MS. RHYNHART: And that's contributions from PGW as well as employees. MR. HAND: And employees, exactly. So it's about a million from the employees and about 29 or so from PGW. So on slide 5, the first chart there, these are the this is the funded
2 3 4 5 6 7 8 9	MR. SCOTT: Okay. MS. RHYNHART: And I think we're on Tab 6. It definitely should be blue. MR. HAND: Okay. Good morning, everyone. So we looked at various aspects of the plan and I'll walk through them briefly in this kind of presentation. But on slide 2, that's an outline of what I'm going to talk about.	2 3 4 5 6 7 8 9	sorry, and the benefit payments are in the 55, 60 million dollar range. MS. RHYNHART: And that's contributions from PGW as well as employees. MR. HAND: And employees, exactly. So it's about a million from the employees and about 29 or so from PGW. So on slide 5, the first chart there, these are the this is the funded ratio and the net cash flow under the
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7 (Pages 22 to 25)

	Page 26		Page 28
1	you know, historically from 2013 to 2019,	1	And on slide 7, that's just
2	the net cash flow has been between -4 and	2	highlighting the next chart there. That's
3	-6% which means that in order to have to	3	just highlighting the comparison to the 50
4	make up that gap, that investment return	4	state plans. So we have the funded ratio
5	needs to be kind of larger than that value.	5	shown as the gray bars. So the Y axis here
6	So if the plan returns -5% or,	6	is sorted by funded ratio with the highest
7	sorry, if the plan's net cash flow in 2019	7	funded ratio states up at the top there.
8	was -5% and the investment return was 7.3,	8	And then the blue diamonds, that shows the
9	for example, under the baseline assumption,	9	three-year cash flow.
10	you have that difference, that 2.3%	10	And the top axis is funded ratio,
11	difference where you would then kind of grow	11	bottom axis is that three-year cash flow.
12	the funded grow the assets of the plan.	12	And so more to the right in terms of cash
13	And what you see in the next 20-year	13	flow means more negative. And what you can
14	projection is that the cash flow has stayed	14	see is that the PGW plan is right in the
15	negative and kind of reaches a minimum of	15	middle there in terms of funded ratio, about
16	6%, -6 in 2028, and then improves slightly	16	70% or so, 73%. But the three-year cash
17	into the -5 range.	17	flow, only nine of those states have values
18	So in the baseline assumption	18	that are more to the right, more negative.
19	projected, this continues a negative cash	19	So, you know, we're not quite
20	flow trend that we've seen in the past. And	20	Kentucky or New Jersey. They are down at
21	then on slide 6, we wanted to kind of put	21	the bottom with very strongly negative cash
22	this into historical some context, right?	22	flows and a low funded ratio which is very,
23	We wanted to look at some other public	23	very good. But just in terms of trying to
24	plans. How does our cash flow for the plan	24	put this number into context, we're kind of
			-
	Page 27		Page 29
1	compare to other public plans?	1	right in the middle of the funded ratio but
2	And the first thing that we did was	2	a little bit towards the outlining of the
3	look at the other 50 state plans. So we	3	three-year cash flow value.
4	went and got the three-year cash flow values	4	Co in addition to the each flow, we
5			So in addition to the cash flow, we
	for the 50 state plans and only nine of	5	also looked at investment strategy, right?
6	those states have a cash flow that's more	5 6	also looked at investment strategy, right? And sort of for more than a decade, kind of
6 7	those states have a cash flow that's more negative than the PGW plan.	5 6 7	also looked at investment strategy, right? And sort of for more than a decade, kind of as long as we could find documentation, a
6 7 8	those states have a cash flow that's more negative than the PGW plan. And the second comparison that we	5 6 7 8	also looked at investment strategy, right? And sort of for more than a decade, kind of as long as we could find documentation, a plan has maintained the 65/35% split between
6 7 8 9	those states have a cash flow that's more negative than the PGW plan. And the second comparison that we made was to a database, the public plans	5 6 7 8 9	also looked at investment strategy, right? And sort of for more than a decade, kind of as long as we could find documentation, a plan has maintained the 65/35% split between equities and fixed income. And what that
6 7 8 9 10	those states have a cash flow that's more negative than the PGW plan. And the second comparison that we made was to a database, the public plans database. There's a database of 187 public	5 6 7 8 9 10	also looked at investment strategy, right? And sort of for more than a decade, kind of as long as we could find documentation, a plan has maintained the 65/35% split between equities and fixed income. And what that has meant more recently is that there's been
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	those states have a cash flow that's more negative than the PGW plan. And the second comparison that we made was to a database, the public plans database. There's a database of 187 public plans. The median cash flow for those plans was -2.9% where the PGW plan, the three-year cash flow is -4.5%. So, again, the PGW plan, more negative than sort of other public plans that are kind of out there right now. So, again, just to underscore, the risk here is if investment returns underperform the 7.3 assumption, then because of that net cash flow being negative, assets might have to be liquidated	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	also looked at investment strategy, right? And sort of for more than a decade, kind of as long as we could find documentation, a plan has maintained the 65/35% split between equities and fixed income. And what that has meant more recently is that there's been a shift towards passive management and to lower management fees. So in 2012, the allocation to passive or indexing was 6.4%. And in 2019, the most recent number was 41.6% of total assets were passively managed indexing. And corresponding with that decrease in passive decrease in active management shifting towards passive has been a lowering of the overall management fees for the plan. FYI, 14.49% total assets were paid

	Page 30		Page 32
1	MR. SCOTT: Can you translate	1	Research.
2	that decrease from 0.49 to 0.37 into	2	MS. RHYNHART: Yeah, and
3	dollars?	3	that's what I mean, these numbers look
4	MR. HAND: Dollars? I can't	4	lower than what are shown in the PFM flash
5	at the moment. I don't know if Chris could	5	report just because the flash report does
6	but we can	6	ten year which starts right after the losses
7	MR. DIFUSCO: I can send that	7	from the last recession and then from
8	out.	8	inception which is from 1987.
9	MR. SCOTT: Thank you.	9	So you're missing the 2001 to
10	MR. DIFUSCO: So the most	10	'16 which we did pick 'cause of Boston
11	recent data was around 1.9 million in fees	11	College and the wealth of data that they put
12	for the year. And that would also include	12	out with their study, but it is including
13	lumped in with that would be not just the	13	two recessions.
14	investment fees but invest in real bank.	14	MR. HAND: Yes. And if you
15	And something that would be everything,	15	then compare that to what the the plan
16	like all the not just the managers. But	16	return assumption has been over that period,
17	I'll get you the exact number after the	17	you know, it's currently 7.3% and the trend
18	meeting. I'll send it over.	18	has been moving that downwards.
19	MR. SCOTT: Thank you.	19	So as recently as 2010, the return
20	MS. RHYNHART: That would be	20	assumption for the plan was 8.25 and that's
21	interesting to see how much we're saving	21	in line with the kind of broader trends in
22	each year.	22	the public plans. The median assumed rate
23	MR. SCOTT: Yes. MR. HAND: And then on slide	23 24	of return for public plans was 7.75 back in 2014. That has come down to 7.25 as of
24	MR. HAND: And then on sinde	24 	2014. That has come down to 7.25 as of
	Page 31		Page 33
1	9, the next item that we looked at was the	1	2018.
2	kind of evaluating the current assumptions,	2	So we're in line with continuing to
3	the actuarial assumptions of the plan. So	3	kind of lower that return assumption to
4	if you look at historical returns for the	4	better kind of match the current assumptions
5	plan, we looked at 2001 to 2016. The plan	5	and moving forward for returns. And the
6	returned at 5.33%.	6	next step that we looked at was to try to
7	And then again if you look at the	7	estimate what the most likely return would
8	median if you look at that public plans	8	be on the investment side moving forward.
_ ^			
9	database, that database of 187 plans, the	9	So what we did was run a set of
10	median return for those plans was 5.5 so	10	thousands of simulations, a very sort of
10 11	median return for those plans was 5.5 so we're right in line with that median percent	10 11	thousands of simulations, a very sort of standard technique in the investment world
10 11 12	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as	10 11 12	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for
10 11 12 13	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the	10 11 12 13	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over
10 11 12 13 14	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the municipal plan, over that same time period	10 11 12 13 14	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over the next 20 years.
10 11 12 13 14 15	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the municipal plan, over that same time period returned 4.77%.	10 11 12 13 14 15	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over the next 20 years. The average values for those from a
10 11 12 13 14 15 16	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the municipal plan, over that same time period returned 4.77%. MR. DUNBAR: Why 2001 to '16?	10 11 12 13 14 15 16	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over the next 20 years. The average values for those from a survey called the Horizon Survey which
10 11 12 13 14 15 16 17	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the municipal plan, over that same time period returned 4.77%. MR. DUNBAR: Why 2001 to '16? MR. HAND: That was what at	10 11 12 13 14 15 16	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over the next 20 years. The average values for those from a survey called the Horizon Survey which surveys about 30 investment firms and we
10 11 12 13 14 15 16 17	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the municipal plan, over that same time period returned 4.77%. MR. DUNBAR: Why 2001 to '16? MR. HAND: That was what at the time was available and we wanted to have	10 11 12 13 14 15 16 17	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over the next 20 years. The average values for those from a survey called the Horizon Survey which surveys about 30 investment firms and we took the average of those survey results and
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10 11 12 13 14 15 16 17 18 19 20	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the municipal plan, over that same time period returned 4.77%. MR. DUNBAR: Why 2001 to '16? MR. HAND: That was what at the time was available and we wanted to have a large enough kind of time frame. This includes two recessions so we wanted to kind	10 11 12 13 14 15 16 17 18 19 20	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over the next 20 years. The average values for those from a survey called the Horizon Survey which surveys about 30 investment firms and we took the average of those survey results and ran these simulations at a 65/35 split, what the plan currently has, and found that the
10 11 12 13 14 15 16 17 18 19 20 21	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the municipal plan, over that same time period returned 4.77%. MR. DUNBAR: Why 2001 to '16? MR. HAND: That was what at the time was available and we wanted to have a large enough kind of time frame. This includes two recessions so we wanted to kind of have a large enough time frame to give a	10 11 12 13 14 15 16 17 18 19 20 21	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over the next 20 years. The average values for those from a survey called the Horizon Survey which surveys about 30 investment firms and we took the average of those survey results and ran these simulations at a 65/35 split, what the plan currently has, and found that the most likely investment return moving forward
10 11 12 13 14 15 16 17 18 19 20 21 22	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the municipal plan, over that same time period returned 4.77%. MR. DUNBAR: Why 2001 to '16? MR. HAND: That was what at the time was available and we wanted to have a large enough kind of time frame. This includes two recessions so we wanted to kind of have a large enough time frame to give a window and that number was just what was	10 11 12 13 14 15 16 17 18 19 20 21 22	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over the next 20 years. The average values for those from a survey called the Horizon Survey which surveys about 30 investment firms and we took the average of those survey results and ran these simulations at a 65/35 split, what the plan currently has, and found that the most likely investment return moving forward was about 7%.
10 11 12 13 14 15 16 17 18 19 20 21	median return for those plans was 5.5 so we're right in line with that median percent for public plans. And then just as comparison, the City's larger plan, the municipal plan, over that same time period returned 4.77%. MR. DUNBAR: Why 2001 to '16? MR. HAND: That was what at the time was available and we wanted to have a large enough kind of time frame. This includes two recessions so we wanted to kind of have a large enough time frame to give a	10 11 12 13 14 15 16 17 18 19 20 21	thousands of simulations, a very sort of standard technique in the investment world where we took the average assumptions for fixed income returns and equity returns over the next 20 years. The average values for those from a survey called the Horizon Survey which surveys about 30 investment firms and we took the average of those survey results and ran these simulations at a 65/35 split, what the plan currently has, and found that the most likely investment return moving forward

9 (Pages 30 to 33)

Page 34 1 very similar analysis where they have found 1 in 2018 with the 73%, by 2038	Page 36
1 very similar analysis where they have found 1 in 2018 with the 73%, by 2038	
2 7.1% right in line with what our analysis 2 each year we only get 5% return	
found as well. And we asked the actuary, 3 down to about 60% in terms of	
4 Aon, to estimate what that would mean in 4 and that's really the impact of the	nat
5 terms of the contribution for PGW if the 5 negative cash flow. 6 return rate was lowered, the assumption was 6 And on slide 12, you can a	oloo loolr
7 lowered to 7%. 7 at how this impacts the required 8 And they came back and estimated 8 contribution for PGW for these	
9 that that would increase the required PGW 9 alternative scenarios. The asset	
10 contribution that they're required to pay by 10 scenario, the required contribut	
11 about 2.3 million dollars if it were lowered 11 immediately because of that sin	
12 from 7.3 to 7 just to put some numbers into 12 drop. And then on average, the	
13 context there. 13 increase is about 12.2 million o	
14 And then on slide 11, we also asked 14 20-year period.	, 01 11111
15 the actuary to run a few stress tests of the 15 Over the baseline assump	tion.
plans. So not the baseline plan assumptions 16 that's an additional 12.2 million	
but to alternate scenarios where we 17 on average. And then under the	
simulated a great recession-like event. 18 scenario, the extra contribution	
So this is the asset shock scenario 19 builds over the 20 years as we can be seen as the control of the scenario 19 builds over the 20 years as we can be seen as the control of the contr	
shown in yellow in the figure here on slide 20 kind of have to liquidate assets	
21 11 where there's a -30% return in 2018 21 to make up that difference.	, ,
22 followed by three years of +12% and then 22 So for the 5% return scena	ario on
23 baseline 7.3% returns moving forward. 23 average, an extra 9.4 million do	ollars over
24 And the second scenario that was 24 that 20-year time period. Then,	, lastly,
Page 35	Page 37
1 simulated was a set of 20 years where each 1 there were just a couple of small	l things
2 year the investment return wasn't 7.3 but 2 that we wanted	-
3 the investment return was 5%. So each year 3 MR. DUNBAR: One	quick
4 not meeting that 7.3 assumption and each 4 question?	
5 year only getting 5% in returns, and that's 5 MR. HAND: Yeah, su	
6 shown in blue. 6 MR. DUNBAR: You	
7 So you can see in the asset shots 7 the asset shock. Is there why	
8 there, you can see that drop in funded ratio 8 MR. HAND: Yes. So	
9 from 73 to just about 45 and then a slow 9 consistent with the Dodd Frank	
10 recovery. And by the end of the 20 years, 10 was the kind of impetus behin	
you're at about 80% where under the baseline 11 the Dodd Frank Act and trying t	
12 assumptions you were at 90%. 12 larger than the Great Recession	
And then in the 5% return scenario, 13 to estimate trying to basically	
this is where really you start to see the impact of the negative cash flow. Because 15 we looked to the Dodd Frank Ac	
impact of the negative cash flow. Because 15 we looked to the Dodd Frank Action the net cash flow is more negative than 5% 16 regulations laid out in that.	ci, uic
17 and you're only getting 5% in investment 17 MR. DUNBAR: Do y	ou remember
18 returns, each year you have to liquidate 18 what the aftershock was during	
19 your assets and your funded ratio drops. 19 MR. DIFUSCO: So I	
20 So each year, you're liquidating 20 well, it depends on how you d	
21 some assets to pay benefits because the 21 If you define it just based on equ	
	now that
investment returns aren't making up that 22 would be larger than that but I k	
	, the

	Page 38		Page 40
1	percent.	1	either the it starts at that date and
2	MS. RHYNHART: In one year	2	then is amortized over 20-year open or
3	and five in the others?	3	30-year closed, the greater of.
4	MR. DIFUSCO: Yes. I was	4	So it's almost like you have the
5	just doing that but you're absolutely right.	5	baseline unfunded and then any additional
6	So 19 the first year and then five the	6	gets spread out over additional years as
7	following. And so, you know, 30 in that	7	it's added into the unfunded liability. And
8	sense is not and, again, combined with	8	then the Finance Director sets the assumed
9	the Dodd Frank regulations is not, you know,	9	rate of return.
10	it's not an out-of-line scenario based on,	10	MR. SCOTT: Thank you.
11	you know, past precedent and kind of	11	MR. HAND: Great. So then on
12	assuming the worst of the worst.	12	slide 13, just other considerations that we
13	MR. HAND: Yes.	13	looked at, the first being I think this
14	MR. SCOTT: And maybe I	14	has been discussed in past meetings but 11%
15	should know this but I don't. What dictates	15	of our fixed income is high yield that Marc
16	what PGW does as it relates to funding the	16	talked about. And the benchmark the
17	short form?	17	overall benchmark for the fixed income
18	MR. HAND: So there is a	18	allocation doesn't include any of these high
19	funding policy.	19	yield low credit fixed income bonds.
20	MR. SCOTT: There's a	20	And we were recommending that we
21	formula?	21	could then adjust that composite fixed
22 23	MR. HAND: Yes. So right	22 23	income benchmark to include to better
24	now, Chris, correct me if I'm wrong, but	24	capture the high-yield allocation, that 11%, in order to kind of make sure we're
24	they're funding at a 20-year open.	24	in order to kind of make sure were
	Page 39		Page 41
_			
1	MS. RHYNHART: It's the	1	evaluating those riskier assets properly.
2	higher it's the more	2	And the second was with respect to
2 3	higher it's the more MR. HAND: Oh, higher.	2 3	And the second was with respect to this discussion around alternatives that
2 3 4	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right.	2 3 4	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings.
2 3 4 5	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right. MS. RHYNHART: It's a	2 3 4 5	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings. And I think our office, you know, we've
2 3 4 5 6	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right. MS. RHYNHART: It's a requirement that where is that set forth?	2 3 4 5 6	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings. And I think our office, you know, we've reviewed those materials from PFM and the
2 3 4 5 6 7	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right. MS. RHYNHART: It's a requirement that where is that set forth? It's set out in I think	2 3 4 5 6 7	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings. And I think our office, you know, we've reviewed those materials from PFM and the additional benefits. There's benefits from
2 3 4 5 6 7 8	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right. MS. RHYNHART: It's a requirement that where is that set forth? It's set out in I think MR. DIFUSCO: A letter that	2 3 4 5 6 7 8	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings. And I think our office, you know, we've reviewed those materials from PFM and the additional benefits. There's benefits from diversification and higher returns.
2 3 4 5 6 7 8 9	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right. MS. RHYNHART: It's a requirement that where is that set forth? It's set out in I think MR. DIFUSCO: A letter that goes to PGW annually that the Finance	2 3 4 5 6 7 8 9	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings. And I think our office, you know, we've reviewed those materials from PFM and the additional benefits. There's benefits from diversification and higher returns. You know, there are risks
2 3 4 5 6 7 8 9	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right. MS. RHYNHART: It's a requirement that where is that set forth? It's set out in I think MR. DIFUSCO: A letter that goes to PGW annually that the Finance Director provides assuming he makes or	2 3 4 5 6 7 8 9	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings. And I think our office, you know, we've reviewed those materials from PFM and the additional benefits. There's benefits from diversification and higher returns. You know, there are risks associated with alternatives; liquidity and
2 3 4 5 6 7 8 9 10	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right. MS. RHYNHART: It's a requirement that where is that set forth? It's set out in I think MR. DIFUSCO: A letter that goes to PGW annually that the Finance Director provides assuming he makes or she, but assuming he makes changes, he sets	2 3 4 5 6 7 8 9 10	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings. And I think our office, you know, we've reviewed those materials from PFM and the additional benefits. There's benefits from diversification and higher returns. You know, there are risks associated with alternatives; liquidity and higher fees, things like that. But I think
2 3 4 5 6 7 8 9 10 11	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right. MS. RHYNHART: It's a requirement that where is that set forth? It's set out in I think MR. DIFUSCO: A letter that goes to PGW annually that the Finance Director provides assuming he makes or she, but assuming he makes changes, he sets out the parameters of the funding policy and	2 3 4 5 6 7 8 9 10 11	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings. And I think our office, you know, we've reviewed those materials from PFM and the additional benefits. There's benefits from diversification and higher returns. You know, there are risks associated with alternatives; liquidity and higher fees, things like that. But I think with the kind of small allocations, less
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	higher it's the more MR. HAND: Oh, higher. 20-year open and 30-year closed. Right. MS. RHYNHART: It's a requirement that where is that set forth? It's set out in I think MR. DIFUSCO: A letter that goes to PGW annually that the Finance Director provides assuming he makes or she, but assuming he makes changes, he sets out the parameters of the funding policy and that's the most recent one that he's provided. MS. RHYNHART: So every loss is spread out? So the it changed to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	And the second was with respect to this discussion around alternatives that we've been having at the past few meetings. And I think our office, you know, we've reviewed those materials from PFM and the additional benefits. There's benefits from diversification and higher returns. You know, there are risks associated with alternatives; liquidity and higher fees, things like that. But I think with the kind of small allocations, less than 10% that we've been considering, I think our office believes those benefits outweigh those potential risks. So those were the kind of last two
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11 (Pages 38 to 41)

	Page 42		Page 44
1	go back and discuss with him but the	1	Rebecca, you and your team were gracious
2	recommendation is to reduce the return	2	enough to allow me to see a draft about a
3	assumption towards that 7%.	3	week ago. As I told you then and I've
4	I know that I mean, I think the	4	talked a little bit to PFM, no objection.
5	concept and idea of investing in	5	I've already talked to Amy on your team.
6	alternatives to get up to the 7.3, we look	6	We can very easily put something together
7	at it a little bit differently which is that	7	once or twice a year in the report to
8	given the negative cash flow and the risk	8	disclose the management fees. That's very
9	around that that PGW should be looking to	9	easy to do.
10	reduce that assumed rate of return and then	10	MS. RHYNHART: Okay.
11	at the same time can have a small allocation	11	MR. DIFUSCO: I was actually
12	to alternatives.	12	able to pull the numbers. So in fiscal year
13	But there should be an increased	13	'18, they were about 1.9 1.95 million.
14	conservatism in that return assumption,	14	Going back to fiscal year '14, they were
15	especially given the cash flow. I know PGW	15	about 2 and a half. So you're talking about
16	has expressed some concern about making any	16	a \$500,000 a year savings to date.
17	changes to it too quickly as it relates to	17	But putting you know, and,
18	the timing of your financial statements and	18	again, that includes the consultant and the
19	your audit.	19	custodial plan. That's an all in. The
20	And I know that you've made some	20	stress test, if we're going to do them
21	mention that it would be better if this were	21	anyway and I know we are if PFM
22	taken up in the January/February time frame.	22	disagrees, no reason not to formalize that
23	That's completely fine. You know, no issue	23	investment policy statement. No objection
24	from us on that. But we do think that, you	24	there.
	, ,		
	- 12		
	Page 43		Page 45
1		1	
1 2	know, you should start to lower that. The second recommendation is to	1 2	So on those and certainly open
	know, you should start to lower that.		
2	know, you should start to lower that. The second recommendation is to evaluate options to improve the cash flow. It is a risk to have such a negative cash	2	So on those and certainly open to, you know, discussions from yourself, the
2 3	know, you should start to lower that. The second recommendation is to evaluate options to improve the cash flow. It is a risk to have such a negative cash	2 3	So on those and certainly open to, you know, discussions from yourself, the other commissioners about wasting improved
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	Page 46		Page 48
1	have to think about it from a PGW credit	1	the balance sheet. They understand that.
2	rate perspective as we go out to market, you	2	If you go to get it in rates, you're lifting
3	know.	3	the debt service coverage on the revenue and
4	So we're in the process of, and Joe	4	expense side. So to me, that's sort of a
5	and Dan know this well, in the process for	5	non-argument. There are other arguments
6	quite some time now of trying to get PGW a	6	that can be made. But from a rating agency
7	rated increase. We think the rate indexes	7	perspective, I mean, I'm just saying that's
8	are wrong on PGW from a rating perspective	8	
9	and that plays significant roles in when we	9	MR. DUNBAR: In some ways, we
10	go to markets what to get obviously from a	10	would absolutely agree with you and I won't
11	bond perspective.	11	play it out to be quite honest. I mean, we
12	So reducing our rate of return	12	continue to make a commitment to our larger
13	right now would not be helpful in our	13	pension plan obviously, up and above our
14	effort, right, if we're going to see a	14	minimum requirement.
15	reduction in the funding level. And so it's	15	We've continued to lower our
16	unlikely that there would be a	16	assumed rate of return on the larger plan
17	recommendation to do that in the short term.	17	and we know that it's had a negative effect
18	And that includes going past	18	on ratings
19	January probably because, again, we're going	19	MS. RHYNHART: I don't agree
20	to take PGW to market sometime next year and	20	with that. I don't agree. But anyway,
21	we're in this process right now of trying to	21	look, this is not my I was told very
22	get them a rated increase and we don't want	22	clearly on my second day in the job that the
23	to do anything that has a negative effect on	23	City Controller cannot vote on the assumed
24	attempting to do that. Because, again,	24	rate of return. Okay? So I have said my
			·
	Page 47		Page 49
1	Page 47 reducing the rate of return increases their	1	Page 49 piece. It should be lowered. A few months
2	reducing the rate of return increases their contributions.	2	piece. It should be lowered. A few months is fine but, you know, that's my position.
2 3	reducing the rate of return increases their contributions. But if we then put the CA negative	2 3	piece. It should be lowered. A few months is fine but, you know, that's my position. MR. DUNBAR: Fair enough. I
2 3 4	reducing the rate of return increases their contributions. But if we then put the CA negative rate movement for PGW because of these	2 3 4	piece. It should be lowered. A few months is fine but, you know, that's my position. MR. DUNBAR: Fair enough. I mean, I think it's a responsible position.
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13 (Pages 46 to 49)

	Page 50		Page 52
1	require annual stress tests in the	1	revisit it in May.
2	investment policy statement, and publicly	2	MR. DUNBAR: And then the
3	disclose annual management fees. I make a	3	asset allocation, we haven't taken an action
4	motion for those three items to be changed.	4	on that. Do we have alternatives?
5	MR. DUNBAR: So noted.	5	MR. DIFUSCO: So and,
6	MR. SCOTT: So the motion has	6	Marc, jump in if you think I'm wrong. I
7	been properly seconded. All those in favor?	7	think it would make sense for staff and PFM
8	MS. RHYNHART: Aye.	8	to start looking at some like tentative
9	MR. SCOTT: So that's passed.	9	recommendations in terms of specific
10	How do you resolve this other issue or you	10	alternatives but recognizing the amount that
11	just don't resolve it?	11	may or may not be suitable depending on
12	MR. DUNBAR: In that motion,	12	where the assumed rate goes for the specific
13	was there the allocation change?	13	type of alternatives may be a little bit in
14	MS. RHYNHART: I mean, we	14	flux, right?
15	could make a recommendation that would have	15	We've talked about going as high as
16	a divided vote but I don't know what purpose	16	ten. I think we're realistically, even at a
17	it would serve.	17	7.3, it's probably more like 5 to 7 and a
18	MR. SCOTT: I agree with	18 19	half. But, obviously, if we were to drop
19 20	that.	20	let's say even if we made the drop to 7
21	MS. RHYNHART: Yeah. So, I	21	I'm completely making this up. But say you just drop to 7.2, you would still probably
22	mean, it might be I mean, you're Rob's you're the Finance Director's substitute so	22	need slightly less alternatives than you
23	it's up to you. It's not up to you at this	23	did.
24	moment but it's up to the Finance Department	24	So I think PFM and staff looking at
	moment out it's up to the I make Department		50 I tillik I I W alid Staff Tooking at
	Page 51		Page 53
1	and the Finance Director. If they don't	1 1	
2	und the limines birestor. If the j don't	1	some of the alternatives that we would
_	want to do it, then I don't think the Board	2	some of the alternatives that we would recommend and in what quantities makes sense
3	want to do it, then I don't think the Board can force them to do it.	2 3	
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	Page 54		Page 56
1	and what alternative managers does PFM	1	And then we can run it in
2	recommend and see where those conversations	2	conjunction with to some degree with the
3	go.	3	assumed rate of return at least in terms of
4	MR. DUNBAR: I mean, I would	4	what percentage we should be at.
5	think in terms of what percentage within the	5	MR. SCOTT: I'll second
6	funding should be plays a role in, you know,	6	that.
7	their assumed rate of return. But the	7	MS. RHYNHART: What does that
8	question of whether we should have	8	
9		9	exactly mean though? I mean, what type of
10	alternatives or not I thought was somewhat	10	language are we at? What are we voting on?
	settled, you know, was settled to some		Is it saying allowing alternatives no more
11	degree.	11 12	than 10% or something?
12	And I think you need a		MR. AMMATURO: Yeah, I think
13	recommendation from the Controller's report	13	we need to establish a strategic long-term
14	that, you know, the risk is worthwhile into	14	target for alternatives and do a band of min
15	the plan. So the question I guess in my	15	and max.
16	mind is are we having a discussion that we	16	MR. DIFUSCO: If I recall,
17	should do alternatives? We can discuss how	17	either at the last meeting or the meeting
18	high it goes but should we be doing	18	before, there was a draft that IPS provided.
19	alternatives? Should we allow the plan to	19	MR. AMMATURO: Yes, there
20	do alternatives? And then at least start	20	was.
21	evaluating those managers and take them a	21	MS. RHYNHART: Oh, okay.
22	step forward.	22	MR. DIFUSCO: I didn't
23	MR. AMMATURO: And correct me	23	provide it.
24	if I'm wrong, Chris, but I think we're past	24	MS. RHYNHART: It's okay.
	Page 55		Page 57
1	the threshold where we are and correct me	_	
	the threshold where we are that correct me	1 1	It's fine
2.	if I'm wrong but where we are going to do	1 2	It's fine. MR_DIFUSCO: Lapologize I
2	if I'm wrong, but where we are going to do	2	MR. DIFUSCO: I apologize. I
3	alternatives is a matter of who we're going	2 3	MR. DIFUSCO: I apologize. I didn't provide it here but there was
3 4	alternatives is a matter of who we're going with and what asset class within the	2 3 4	MR. DIFUSCO: I apologize. I didn't provide it here but there was specific language provided either at the
3 4 5	alternatives is a matter of who we're going with and what asset class within the alternatives	2 3 4 5	MR. DIFUSCO: I apologize. I didn't provide it here but there was specific language provided either at the October meeting or the August meeting.
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	Page 58		Page 60
1	finalist and yeah, same process.	1	the second.
2	MR. AMMATURO: So is this	2	MR. DUNBAR: So you just have
3	going to be parallel efforts where come to	3	to say all in favor.
4	our January meeting, we'll obviously	4	MR. SCOTT: All in favor?
5	finalize the outcasts with alternative	5	MS. RHYNHART: Aye.
6	language as well as PFM should be prepared	6	MR. DUNBAR: Aye.
7	to talk about who we recommend, what asset	7	MR. SCOTT: Okay. But I need
8	class we recommend within alternatives	8	to understand what we're saying that about.
9	including what managers or is that too	9	So we went through the asset allocation,
10	quick? I just want to	10	right? And is it all right to clarify?
11	MR. DUNBAR: I'd like to hear	11	MS. RHYNHART: Yes, please.
12	that. I mean, I don't know that there's a	12	MR. DUNBAR: After the vote,
13	real reason for us to wait, to the extent	13	yes.
14	that you can get that stuff in that time	14	MR. SCOTT: I know it passed
15	frame.	15	but I thought we also said that we're going
16	MR. AMMATURO: We just won't	16	to vote on each
17	take any time off over the holidays.	17	MS. RHYNHART: We will.
18	MS. RHYNHART: I mean, it's	18	MR. DIFUSCO: Each manager,
19	sort of a slow process though, right, to	19	when we bring them in in the future
20	ramp up?	20	MR. SCOTT: That's where I'm
21	MR. DIFUSCO: Yes.	21	going with it. So in order to improve the
22	MR. DUNBAR: I think the	22	return, we're talking about looking at
23	commissioners still have to put things on	23	different managers
24	pause to allow that if you're not	24	MS. RHYNHART: Right.
	Page 59		Page 61
1	comfortable.	1	MR. SCOTT: and different
2	MS. RHYNHART: No, no. I'm	2	asset classes
3	just saying in general, it's a slow process	3	MR. AMMATURO: Within
4	to add private debt and private equities.	4	alternatives.
5	MR. AMMATURO: Oh, yeah.	5	MR. SCOTT: versus
6	They're going to call the capital and	6	waiting?
7	MS. RHYNHART: Yeah. It's a	7	MR. AMMATURO: Yeah. We're
8	slow process.	8	moving. We're going to be educating the
9	MR. DIFUSCO: And the legal	9	commissioners on additional managers within
10	negotiations take longer; the decide letters	10	alternatives starting in January.
11	and the fact that it's a general	11	MS. RHYNHART: Right. All we
12	partnership.	12	did was vote on changing the investment
13	MS. RHYNHART: Right.	13	policy statement to allow for PFM to move
14	MR. DIFUSCO: So it's much	14	forward with researching and getting
15	more difficult to staff PFM and Adam to	15	together alternative options for us to then
16	negotiate the contract that would be with	16	vote on in January.
17	Rhumbline or Garcia Hamilton so it's	17	MR. SCOTT: Okay. Got it.
18	definitely a slow process.	18	Do we have any new business?
19	MS. RHYNHART: So Don	19	MR. DIFUSCO: I do not.
20	seconded it. Do we all need to vote in	20	MR. SCOTT: All right. So is
21	favor? Like I feel like it's sort of	21	there a motion for adjournment?
22	MR. DIFUSCO: Yeah. You	22 23	MS. RHYNHART: I'll motion to
23 24	still have to have a vote. But, yeah, there was a second so there should be a vote after	23	adjourn. MR. SCOTT: All right.
4 1	was a second so there should be a vote after	4	MR. SCOTT. All light.

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1	MR. DUNBAR: I'll second it.	
2	MR. SCOTT: Thank you.	
3		
4	(This concludes the meeting	
5	at 11:05 a.m.)	
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1 2	CERTIFICATION	
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3	I hereby certify that the	
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3 4	I hereby certify that the proceedings and evidence noted are contained fully and accurately in the stenographic	
3 4 5 6 7	I hereby certify that the proceedings and evidence noted are contained fully and accurately in the stenographic notes taken by me upon the foregoing matter dated November 25, 2019 and that this is a	
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1.95 44:13	2.87 17:15	34:21 38:7	34:12				
10 22:23 45:6	2.9 16:12	30-year 39:4	52:17,19				
10% 20:2	27:12	39:17 40:3	7% 6:12				
41:13	20 25:15	30% 37:6,7	33:22 34:7				
56:11	33:14 35:1	31 24:23	42:3				
10.1 20:2	35:10 36:1	31st 5:16	7.1 34:2				
10.7 8:10	36:19		7.16 20:12				
10.8 8:16	20-year	4	7.2 52:21				
11 34:14,21	26:13	4 24:4 26:2	7.25 32:24				
11% 21:1	36:14,24	4.5 27:13	7.3 25:18				
40:14,23	38:24 39:4	4.77 31:15	26:8 27:19				
45:6	39:17 40:2	40 21:15	32:17				
11.71 21:2	20% 25:15	41.6 29:15	34:12,23				
11.76 21:1	200 23:23	45 35:9	35:2,4 42:6				
11:05 62:5	2001 31:5,16		52:17				
116 1:18	32:9	5	7.75 32:23				
12 6:4 10:2	2009 24:2	5 18:1 25:8	70 19:14				
36:6	2010 32:19	26:6,8,17	70% 28:16				
12% 34:22	2012 29:13	52:17	73 35:9				
12.2 36:13,16	2013 26:1	5% 35:3,5,13	73% 23:22				
13 40:12	2014 32:24	35:16,17	25:14				
13.01 20:9	2016 31:5	36:2,17,22	28:16 36:1				
13.4 20:9	2017 8:12	5.33 31:6					
14 44:14	2018 7:10	5.5 31:10	8				
14% 8:10	29:22,23	50 27:3,5	8% 18:13,19				
14.49 29:21	33:1 34:21	28:3	8.25 32:20				
15 22:23	36:1	500,000	8.8 19:2 20:3				
15.4 17:10	2019 1:2 6:24	44:16	80 4:23				
16 12:14,15	11:2 16:20	504-4622	80% 35:11				
31:16	18:7,13,17	1:16					
32:10	19:18 21:4	504-7155 1:17	9				
16% 5:23	25:14 26:1	51% 21:12	9 8:15 31:1			1	
16.3 17:9	26:7 29:14	51 % 21:12 54 1:18	9% 19:2			1	
16.6 5:23	63:7	55 25:2	9.02 19:2				
16th 1:5 17 15:24 19:9	2028 26:16 2038 25:15	55 23:2 551,922,84	9.4 36:23			1	
17 15:24 19:9 18 12:15	36:1	5:19	9.7 6:11,13			1	
44:13	215 1:16,17	3.19	90% 35:12				
11 .13	213 1.10,17					1	[