

# Industry & Local 338 Pension Plan

Actuarial Update

October 20, 2023

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# Today's Discussion

- **2023 PPA Zone Status Certification**
- **Updated Funding Projections**
- **2022 – 2023 Plan Year Timeline**
- **Appendix**
  - Contribution Rate Summaries
  - Early Retirement Provisions
  - Plan Historical Risk Measures
  - Data, Assumptions, Methods and Plan Provisions
  - PPA Zone Certification Statuses
  - Actuarial Certification

# 2023 PPA Zone Status Certification

# 2023 PPA Certification

- **The Plan was certified as in the “Green Zone” for the July 1, 2023 – June 30, 2024 Plan Year on September 28, 2023**
  - Projected Funded % at 7/1/2023 = 96.7%
    - Uses Actuarial Value of Assets
  - No projected funding deficiency in the projection period
- **Basis of the certification:**
  - Preliminary market value of assets based on 9.84% return for the plan year ending June 30, 2023 provided by SEI, then earning 7.25% in all future years
  - Projected liabilities based on results of the July 1, 2022 actuarial valuation, including a 7.25% interest rate
  - Projected Contributions
    - Only contribution rate increases already included in CBAs as of the certification date are recognized
    - Reflects 9,600 weeks in all future years, based on input from the Trustees at the June 28, 2023 Board Meeting

# Updated Funding Projections

# Projection Assumptions and Methods

- **Unless otherwise stated, the projection assumptions, methods, data and plan provisions used are the same as those used for the July 1, 2022 actuarial valuation.**
  - No future expected gains or losses other than those attributable to investment returns, as applicable.
  - Plan amendment effective July 1, 2022 is reflected.
- **Investment Earnings**
  - 9.84% return on assets for the plan year ending June 30, 2023
  - 7.25% per year, net of investment-related expenses, thereafter unless otherwise noted
- **Operating Expenses**
  - \$375,000 for the plan year beginning July 1, 2022, increasing 2.5% per year
- **Work Levels**
  - Plan year beginning July 1, 2023 – 9,600 total weeks, unless otherwise noted
- **Contribution Rates**
  - Included in Collective Bargaining Agreements as bargained
  - All contributions rate increases are benefit-bearing

Other assumptions may be reasonable and could produce different results. Other risks can negatively impact the funded status of the plan such as participants living longer than assumed. Additional scenarios available upon request.

# Projection Assumptions and Methods (cont.)

- **Contracts**

- 85% of hours worked under contracts beginning that are expected to renew in PYB 2023
  - HP Hood, expiration September 30, 2023
  - FrieslandCampina, expiration December 31, 2023
  - Montefiore New Rochelle, expiration November 5, 2023
  - Paraco, expiration January 31, 2024
- 15% of hours worked under contracts beginning that are expected to renew in PYB 2025
  - LP Transport, expires August 15, 2025
  - Westchester Local 860, expires September 30, 2025

Other assumptions may be reasonable and could produce different results. Other risks can negatively impact the funded status of the plan such as participants living longer than assumed. Additional scenarios available upon request.

# Projection Roadmap

| Scenario                                               | Investment Return<br>PYB 2022 /<br>PYB 2023/<br>PYB 2024+ | Weeks Worked<br>PYB 2022+ | Funded % /<br>Credit Bal<br>(\$M)<br>PYB 2023 | Future<br>Zone Status<br>Changes | 100%<br>Funded PYB | % Funded<br>7/1/2041 | Credit<br>Balance<br>(\$M)<br>6/30/2042 |
|--------------------------------------------------------|-----------------------------------------------------------|---------------------------|-----------------------------------------------|----------------------------------|--------------------|----------------------|-----------------------------------------|
| 1<br>July 1, 2022<br>Valuation                         | 7.25% /<br>7.25%<br>thereafter                            | 9,600                     | 96% / \$8                                     | Green                            | 2034               | 118%                 | \$21                                    |
| 2<br>July 1, 2023<br>Certification                     | 9.84% 2022 /<br>7.25%<br>thereafter                       | 9,600                     | 96% / \$8                                     | Green                            | 2032               | 127%                 | \$30                                    |
| 3<br>YTD ROA PYB 2022<br>Lower Hours                   | 9.84% 2022 /<br>7.25%<br>thereafter                       | 9,150<br>(5% lower)       | 96% / \$8                                     | Green                            | 2033               | 122%                 | \$25                                    |
| 4<br>ROA PYB 2023 That<br>Results in Non-Green<br>2024 | 9.84% 2022 /<br>-9.50% 2023 /<br>7.25%<br>thereafter      | 9,600                     | 96% / \$8                                     | Proj Red<br>2024<br>Red 2030     | N/A                | 70%                  | (\$24)                                  |
| 5<br>3.25% Per Year<br>Contribution Increases          | 9.84% 2022 /<br>-9.50% 2023 /<br>7.25%<br>thereafter      | 9,600                     | 96% / \$8                                     | Yellow 2027<br>Red 2033          | N/A                | 95%                  | \$1                                     |

## Notes:

- All scenarios include the removal of the service cap effective July 1, 2022
- Scenario 5 Contribution Increases begin 7/1/2024

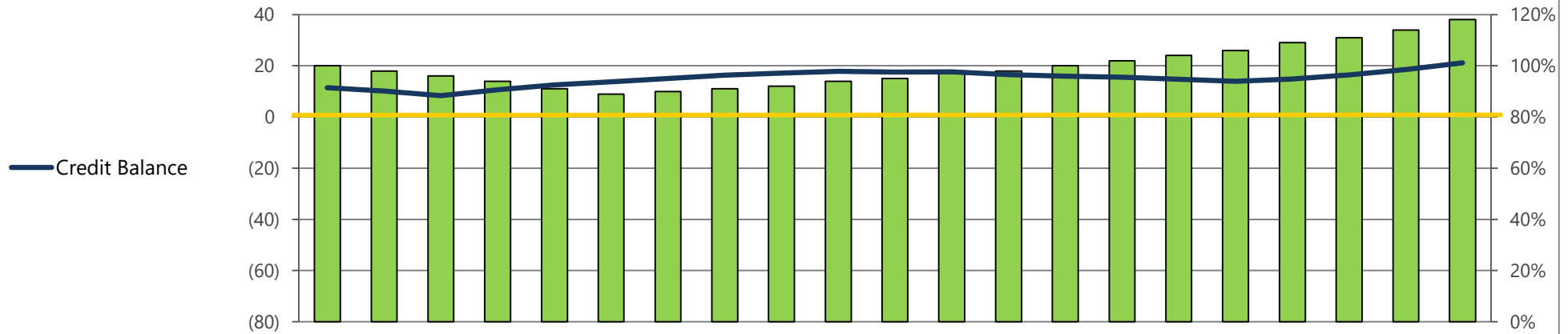
# Scenario 1: July 1, 2022 Valuation

7.25% Return PYB 2022+ | 9.6 Thousand Weeks Worked beginning PYB 2022

## Industry And Local 338 Pension Plan

Credit Balance (\$Million)

Zone Status Funded Percentage



Plan Year Beginning 7/1

| Plan Year Beginning 7/1             | 2021   | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 |
|-------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| (1) Investment Return (%)           | (8.72) | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 |
| (2) Weeks Worked(Thousands)         | 10.1   | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  |
| (3) Weekly Contribution Rate (\$)   | 324    | 330  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  |
| (4) Contributions+EWL Payments(\$M) | 3.3    | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  |
| (5) Actuarial Value of Assets (\$M) | 107    | 106  | 103  | 100  | 97   | 94   | 94   | 95   | 95   | 95   | 96   | 96   | 97   | 98   | 98   | 99   | 100  | 101  | 102  | 104  | 105  |
| (6) Zone Status Liability (\$M)     | 107    | 107  | 107  | 106  | 106  | 105  | 104  | 103  | 102  | 101  | 100  | 99   | 98   | 97   | 96   | 95   | 94   | 92   | 91   | 90   | 89   |
| (7) Credit Balance (\$M)            | 11     | 10   | 8    | 11   | 13   | 14   | 15   | 16   | 17   | 18   | 18   | 18   | 17   | 16   | 16   | 15   | 14   | 15   | 16   | 19   | 21   |
| (8) Zone Status Funded Percentage   | 100%   | 98%  | 96%  | 94%  | 91%  | 89%  | 90%  | 91%  | 92%  | 94%  | 95%  | 97%  | 98%  | 100% | 102% | 104% | 106% | 109% | 111% | 114% | 118% |

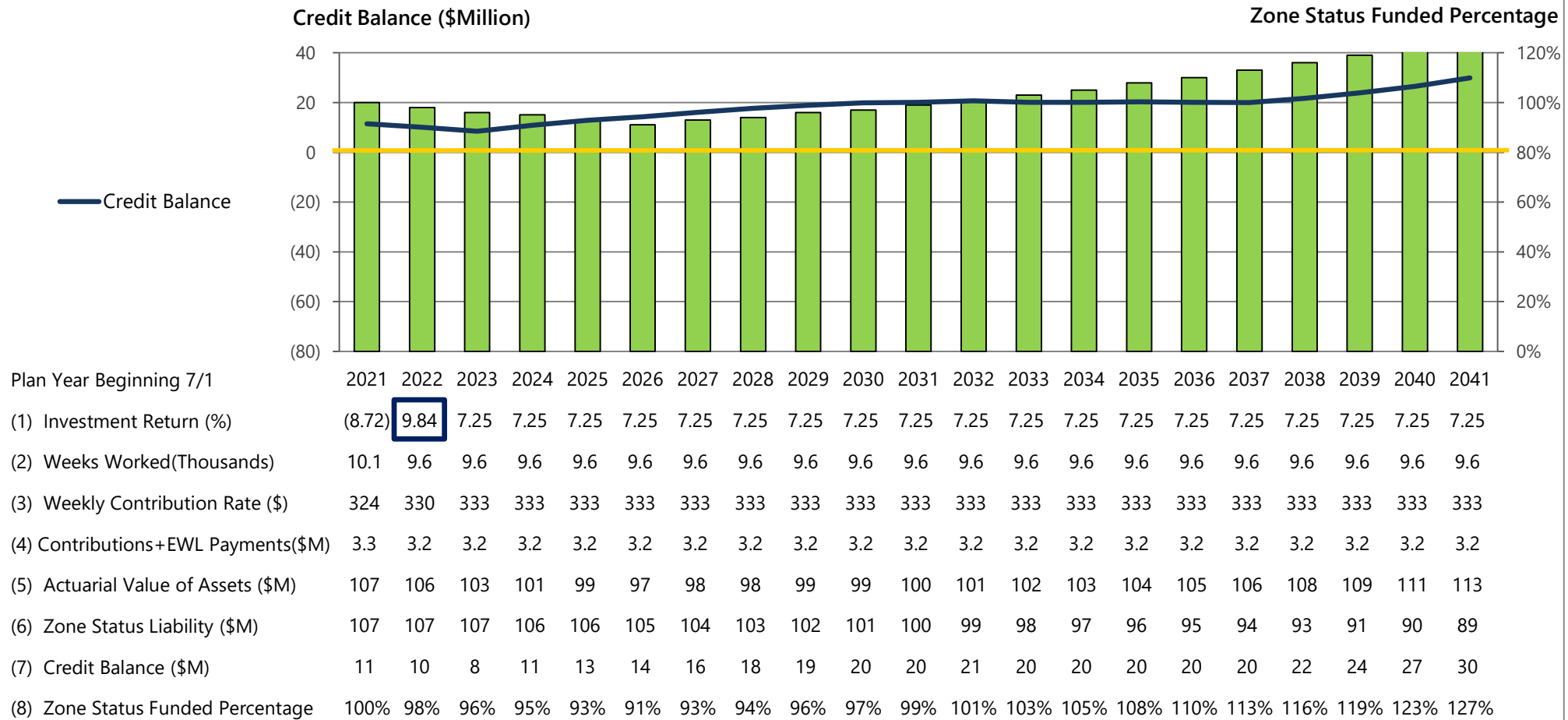
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# Scenario 2: July 1, 2023 PPA Certification

9.84% Return PYB 2022; 7.25% Return PYB 2023+ | 9.6 Thousand Weeks Worked beginning PYB 2022

## Industry And Local 338 Pension Plan

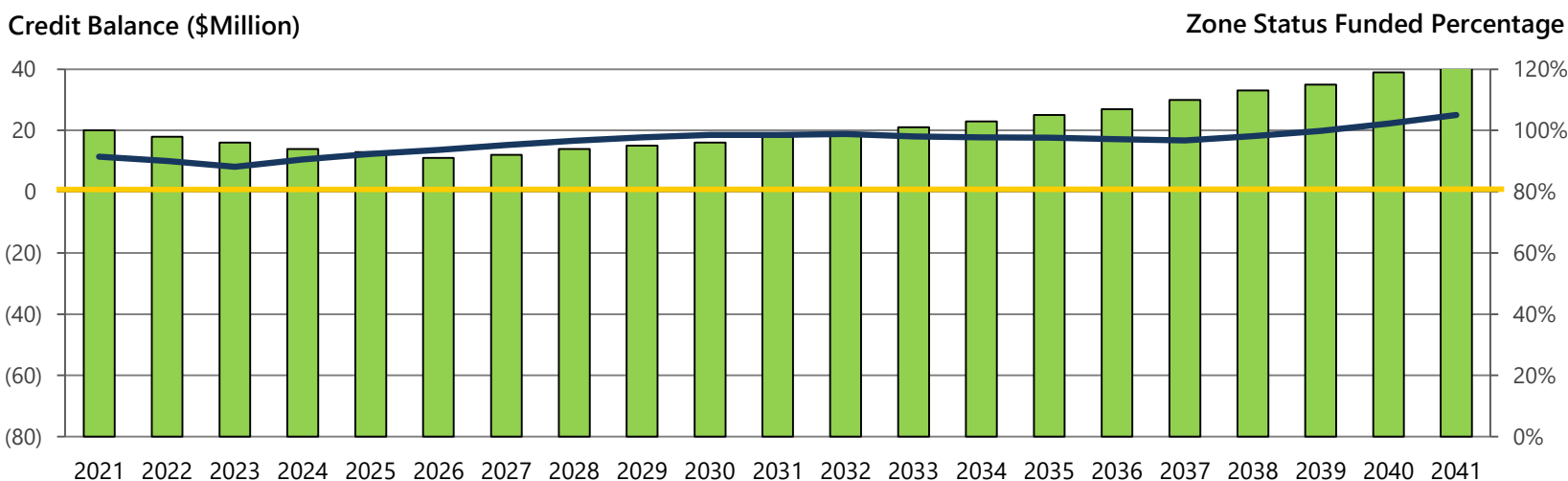


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# Scenario 3: PYB 2022 YTD Return & Low Weeks Worked

9.84% Return PYB 2022; 7.25% Return PYB 2023+ | 9.15 Thousand Weeks Worked beginning PYB 2022

## Industry And Local 338 Pension Plan



Plan Year Beginning 7/1

|                                     |        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| (1) Investment Return (%)           | (8.72) | 9.84 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 |
| (2) Weeks Worked(Thousands)         | 10.1   | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  | 9.2  |
| (3) Weekly Contribution Rate (\$)   | 324    | 330  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  |
| (4) Contributions+EWL Payments(\$M) | 3.3    | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| (5) Actuarial Value of Assets (\$M) | 107    | 106  | 103  | 101  | 98   | 96   | 97   | 97   | 97   | 98   | 98   | 99   | 99   | 100  | 101  | 101  | 102  | 103  | 105  | 106  | 107  |
| (6) Zone Status Liability (\$M)     | 107    | 107  | 107  | 106  | 106  | 105  | 104  | 103  | 102  | 101  | 100  | 99   | 98   | 96   | 95   | 94   | 93   | 91   | 90   | 89   | 88   |
| (7) Credit Balance (\$M)            | 11     | 10   | 8    | 10   | 12   | 14   | 15   | 17   | 18   | 19   | 18   | 19   | 18   | 18   | 18   | 17   | 17   | 18   | 20   | 22   | 25   |
| (8) Zone Status Funded Percentage   | 100%   | 98%  | 96%  | 94%  | 93%  | 91%  | 92%  | 94%  | 95%  | 96%  | 98%  | 99%  | 101% | 103% | 105% | 107% | 110% | 113% | 115% | 119% | 122% |

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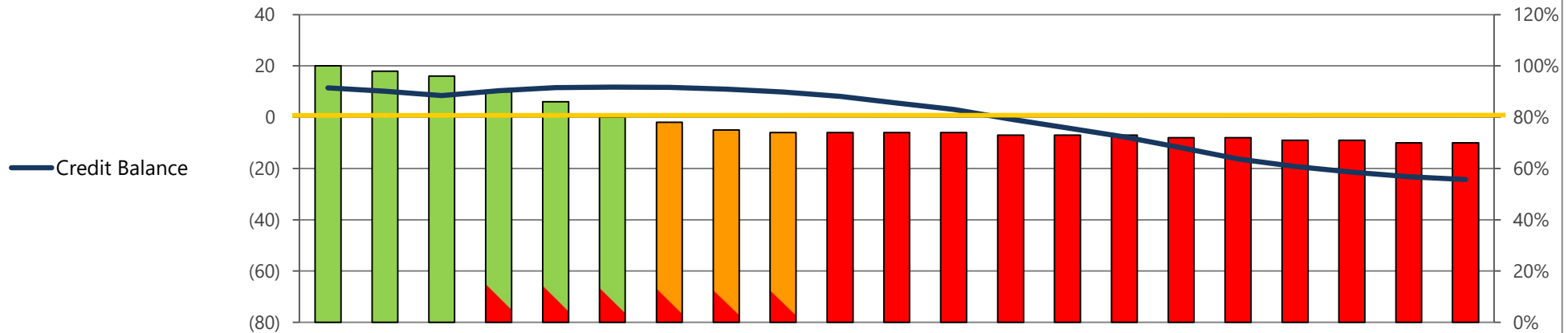
# Scenario 4: Low 2023 ROA That Results in Non-Green 2024

-9.50% Return in PYB 2023; 7.25% Return PYB 2024+ | 9.6 Thousand Weeks Worked beginning PYB 2022

Industry And Local 338 Pension Plan

Credit Balance (\$Million)

Zone Status Funded Percentage



Plan Year Beginning 7/1

|                                     | 2021   | 2022 | 2023   | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 |
|-------------------------------------|--------|------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| (1) Investment Return (%)           | (8.72) | 9.84 | (9.50) | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 |
| (2) Weeks Worked(Thousands)         | 10.1   | 9.6  | 9.6    | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  |
| (3) Weekly Contribution Rate (\$)   | 324    | 330  | 333    | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  | 333  |
| (4) Contributions+EWL Payments(\$M) | 3.3    | 3.2  | 3.2    | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  |
| (5) Actuarial Value of Assets (\$M) | 107    | 106  | 103    | 97   | 92   | 85   | 82   | 78   | 77   | 76   | 75   | 74   | 73   | 71   | 70   | 69   | 68   | 67   | 65   | 64   | 63   |
| (6) Zone Status Liability (\$M)     | 107    | 107  | 107    | 106  | 106  | 105  | 104  | 103  | 102  | 101  | 100  | 99   | 98   | 97   | 96   | 95   | 94   | 93   | 91   | 90   | 89   |
| (7) Credit Balance (\$M)            | 11     | 10   | 8      | 10   | 12   | 12   | 12   | 11   | 10   | 8    | 6    | 3    | (1)  | (4)  | (8)  | (12) | (16) | (19) | (21) | (23) | (24) |
| (8) Zone Status Funded Percentage   | 100%   | 98%  | 96%    | 90%  | 86%  | 80%  | 78%  | 75%  | 74%  | 74%  | 74%  | 74%  | 73%  | 73%  | 73%  | 72%  | 72%  | 71%  | 71%  | 70%  | 70%  |

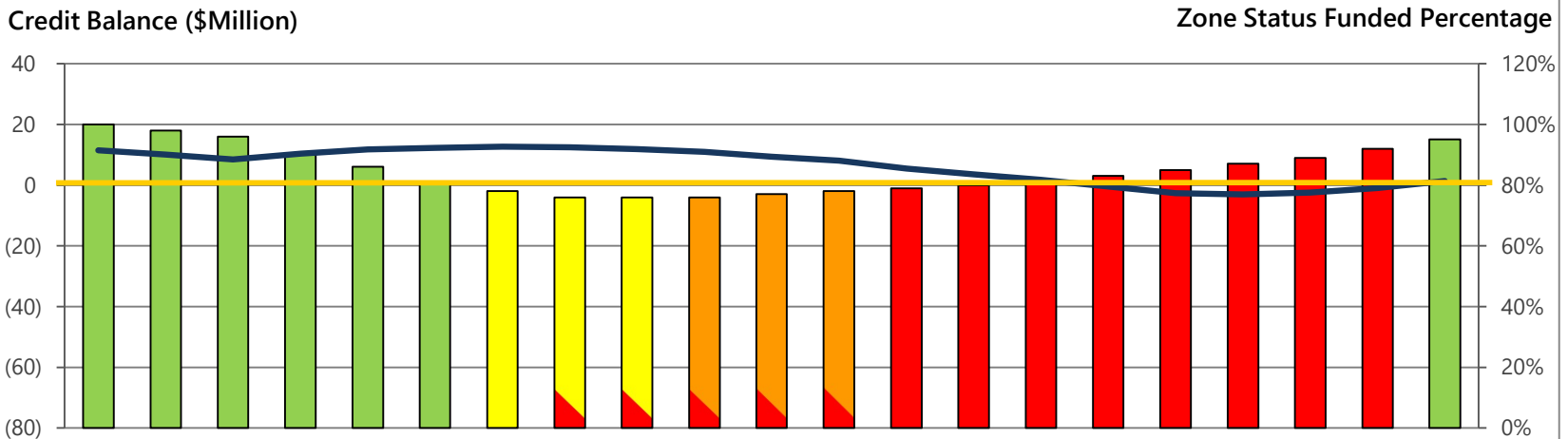
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# Scenario 5: 3.5% Per Year Contribution Increases

-9.50% Return in PYB 2023; 7.25% Return PYB 2023+ | 9.6 Thousand Weeks Worked beginning PYB 2022  
 3.5% per year increase in Contribution Rate beginning 7/1/2024

Industry And Local 338 Pension Plan



| Plan Year Beginning 7/1             | 2021   | 2022 | 2023   | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 |
|-------------------------------------|--------|------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| (1) Investment Return (%)           | (8.72) | 9.84 | (9.50) | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 | 7.25 |
| (2) Weeks Worked(Thousands)         | 10.1   | 9.6  | 9.6    | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  | 9.6  |
| (3) Weekly Contribution Rate (\$)   | 324    | 330  | 333    | 345  | 357  | 370  | 382  | 396  | 410  | 424  | 439  | 454  | 470  | 487  | 504  | 521  | 539  | 558  | 578  | 598  | 619  |
| (4) Contributions+EWL Payments(\$M) | 3.3    | 3.2  | 3.2    | 3.3  | 3.4  | 3.5  | 3.7  | 3.8  | 3.9  | 4.1  | 4.2  | 4.4  | 4.5  | 4.7  | 4.8  | 5.0  | 5.2  | 5.4  | 5.5  | 5.7  | 5.9  |
| (5) Actuarial Value of Assets (\$M) | 107    | 106  | 103    | 97   | 92   | 85   | 82   | 79   | 79   | 79   | 79   | 79   | 80   | 80   | 81   | 83   | 84   | 86   | 88   | 91   | 94   |
| (6) Zone Status Liability (\$M)     | 107    | 107  | 107    | 106  | 106  | 105  | 104  | 104  | 103  | 102  | 101  | 101  | 100  | 100  | 99   | 99   | 99   | 98   | 98   | 99   | 99   |
| (7) Credit Balance (\$M)            | 11     | 10   | 8      | 10   | 12   | 12   | 13   | 12   | 12   | 11   | 9    | 8    | 6    | 4    | 2    | (0)  | (3)  | (3)  | (2)  | (1)  | 1    |
| (8) Zone Status Funded Percentage   | 100%   | 98%  | 96%    | 90%  | 86%  | 81%  | 78%  | 76%  | 76%  | 76%  | 77%  | 78%  | 79%  | 80%  | 81%  | 83%  | 85%  | 87%  | 89%  | 92%  | 95%  |

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# Observations

- **The Plan remains sensitive to both investment return and contributions**
  - A further decrease in hours as demonstrated in Scenario 3 will remove some of the Plan's ability to handle investment volatility
  - Scenario 4 demonstrates how the Plan may encounter zone status issues in the future
    - Absent investment returns above those assumed, an increase in contributions of 3.5% annually would be required to recover from such a one-time investment loss, as demonstrated in Scenario 5
- **Long term funding improvement is compromised if investment returns are less than assumed or if contributions levels fall**
  - Investment returns for the current plan year are below the assumed rate of return
  - We continue to monitor movements in the outlook for future investment returns reported by investment professionals

# 2023 – 2024 Plan Year Timeline - PPA

| Event                                                                                                 | Deadline / Information                                                                                                                                                    | Latest Date           |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>Actuarial Certification</b>                                                                        | 90 days into plan year                                                                                                                                                    | 9/28/2023<br>Complete |
| <b>Notice of Critical Status<br/>(if applicable)</b>                                                  | 30 days after actuarial certification                                                                                                                                     | N/A                   |
| <b>Develop Funding<br/>Improvement Plan (FIP) or<br/>Rehabilitation Plan (RP)<br/>(if applicable)</b> | Due 240 days after certification of endangered (FIP) or<br>critical status (RP)                                                                                           | N/A                   |
| <b>Funding Improvement or<br/>Rehabilitation Period<br/>(if applicable)</b>                           | After expiration of contracts covering at least 75% of active<br>participants, not later than first of plan year following<br>second anniversary of adoption of FIP or RP | N/A                   |

# 2023 – 2024 Plan Year – Other Actuarial Information

| Event                                         | Deadline / Information                                                                                     | Latest Date                                 |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <b><i>Annual Funding Notice</i></b>           | 120 days after the end of the plan year                                                                    | 10/28/2023                                  |
| <b><i>Schedule MB (Form 5500)</i></b>         | Last day of the 7 <sup>th</sup> month following the end of the Plan Year<br>(2½ month extension available) | 1/31/2024 (w/o ext)<br>4/15/2024 (with ext) |
| <b><i>ERISA 104(d) Notice</i></b>             | 30 days after due date Form 5500 filing                                                                    | 3/1/2024 (w/o ext)<br>5/15/2024 (with ext)  |
| <b><i>PBGC Premium Filing</i></b>             | 15 <sup>th</sup> day of the 10 <sup>th</sup> full calendar month in the Plan Year                          | 4/15/2024                                   |
| <b><i>Actuarial Valuation</i></b>             |                                                                                                            | In process                                  |
| <b><i>Review of Actuarial Assumptions</i></b> | In conjunction with the actuarial valuation                                                                | N/A                                         |

# Appendix

# Contribution Rate Summary

| Employer                | Contract Expiration Date | As of 7/1/2020           |                         | As of 7/1/2021           |                         | As of 7/1/2022           |                         |
|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|
|                         |                          | Active Count (Valn Data) | Total Wkly Contrib Rate | Active Count (Valn Data) | Total Wkly Contrib Rate | Active Count (Valn Data) | Total Wkly Contrib Rate |
| HP Hood / Crowley       | 9/30/2023                | 91                       | 342.58                  | 94                       | 342.58                  | 89                       | 345.38                  |
| Freisland Campina       | 12/31/2023               | 62                       | 261.33                  | 65                       | 281.24                  | 58                       | 290.00                  |
| LP Transport            | 8/15/2025                | 29                       | 331.51                  | 27                       | 340.53                  | 28                       | 349.82                  |
| Montefiore New Rochelle | 11/5/2023                | 13                       | 290.21                  | 13                       | 311.41                  | 14                       | 333.99                  |
| Paraco Gas              | 1/31/2024                | 8                        | 283.75                  | 7                        | 292.51                  | 6                        | 305.40                  |
| Westchester L860        | 9/30/2025                | 1                        | 243.28                  | 1                        | 243.28                  | 1                        | 305.14                  |
| Total                   |                          | 204                      |                         | 207                      |                         | 196                      |                         |

## Notes

- 1) All contributions are benefit-bearing, effective beginning July 1, 2016.
- 2) Contribution rates shown above are as reported by Plan Administrator.

# Plan Historical Risk Measures

- **The Plan is mature**
  - High negative net cash flow
  - High number of inactive participants supported by each active participant

## Historical Plan Measures

| <u>Plan Year<br/>Ended<br/>June 30</u> | <u>Net Cash Flow<br/>% Market Value</u> | <u># Active</u> | <u>Inactive to<br/>Active Ratio</u> | <u>Total Liability<br/>per Active</u> | <u>Unfunded<br/>per Active</u> | <u>Contributions<br/>Incl Wdl Liab</u> | <u>Contrib<br/>per Active</u> |
|----------------------------------------|-----------------------------------------|-----------------|-------------------------------------|---------------------------------------|--------------------------------|----------------------------------------|-------------------------------|
| 2022                                   | -5.0%                                   | 196             | 6.5                                 | \$ 547,453                            | \$ 75,075                      | \$ 3,306,650                           | \$ 16,871                     |
| 2021                                   | -5.9%                                   | 207             | 6.3                                 | 515,419                               | -                              | 3,432,621                              | 16,583                        |
| 2020                                   | -2.9%                                   | 204             | 6.9                                 | 520,003                               | 78,095                         | 5,839,691                              | 28,626                        |
| 2019                                   | -5.3%                                   | 226             | 6.3                                 | 468,149                               | 64,821                         | 3,721,091                              | 16,465                        |
| 2018                                   | -5.7%                                   | 238             | 5.9                                 | 430,222                               | 45,228                         | 3,435,385                              | 14,434                        |
| 2017                                   | -6.1%                                   | 238             | 3.9                                 | 476,419                               | 98,968                         | 3,448,566                              | 14,490                        |
| 2016                                   | -5.6%                                   | 243             | 3.9                                 | 456,389                               | 110,458                        | 3,152,597                              | 12,974                        |
| 2015                                   | -5.1%                                   | 265             | 3.6                                 | 413,283                               | 72,394                         | 3,282,076                              | 12,385                        |
| 2014                                   | -5.1%                                   | 306             | 2.7                                 | 349,703                               | 48,774                         | 3,372,931                              | 11,023                        |
| 2013                                   | -5.5%                                   | 326             | 2.7                                 | 314,414                               | 58,630                         | 3,043,650                              | 9,336                         |
| 10-Year Average                        | -5.2%                                   | 245             | 4.8                                 | 449,146                               | 65,244                         | 3,603,516                              |                               |

# Early Retirement changes made by the Rehab Plan

| Plan Provision         | Description of Plan Provision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Service Pension</b> | <p><u>Eligibility:</u><br/>20, 25, 30 or 35 pension credits</p> <p><u>Amount of Benefit:</u><br/>At the Service Pension Commencement Date, a Participant will be entitled to receive a monthly benefit equal to his Normal Retirement Benefit actuarially reduced for early commencement.</p> <p><i>If the participant retired before January 1, 2018, the Service Pension is determined under the Plan rules in effect at that time.</i></p> <p>20 Year Service Pension = 50% of the Regular Pension<br/> 25 Year Service Pension = 90% of the Regular Pension<br/> 30 Year Service Pension = 95% of the Regular Pension<br/> 35 Year Service Pension = 100% of the Regular Pension</p>                                                                             |
| <b>Early Pension</b>   | <p><u>Eligibility:</u><br/>An Employee is eligible for an Early Pension if the Employee has attained age 55 and has earned 15 pension credits.</p> <p><u>Amount of Benefit:</u><br/>Upon the Early Retirement Date, a Participant will be entitled to receive a monthly benefit equal to his Normal Retirement Benefit actuarially reduced for early commencement.</p> <p><i>If the participant retired before January 1, 2018, the Early Pension is determined under the Plan rules in effect at that time. Normal Retirement Benefit earned reduced by:</i></p> <p>2% for each year of age less than 65 to age 55 for benefits accrued before July 1, 2010.<br/> 6% for each year of age less than 65 to age 55 for benefits accrued on or after July 1, 2010.</p> |

# Data, Assumptions, Methods and Plan Provisions

- Please see our January 27, 2023 and June 28, 2023 presentations

# PPA Certification Zone Statuses

## Critical

*In general, a projected funding deficiency in the next 4 or 5 years (other factors may apply)*

## Critical and Declining (NEW)

*In critical status, and projected to go insolvent within the 20 years (15 years in some cases)*

## Endangered

*Under 80% funded or a projected funding deficiency in the next 7 years*

## Seriously Endangered

*Under 80% funded and a projected funding deficiency in the next 7 years*

## “Green Zone”

*(none of the above)*

- **Special rules, effective 12/31/2014:**

- A plan newly in endangered status that would require no corrective action under a funding improvement plan is considered in the “Green Zone”.
- A plan projected to enter Critical Status in the next 5 plan years may elect to be in Critical Status immediately.

# Actuarial Certification

We have prepared this actuarial report for use by the **Industry & Local 338 Pension Plan** (the “Plan”). This report has been prepared solely for the benefit of the Plan, and it is not complete without the accompanying discussion with a representative of Horizon Actuarial Services, LLC. This report should not be distributed to others not affiliated with the Plan or relied upon by any other person without prior written consent from Horizon Actuarial Services, LLC.

In preparing this report, we have relied on all the information and data provided by the Plan, including plan provisions and asset information, as being complete and accurate. We have not independently verified the accuracy or completeness of the data or information provided, but we have reviewed the data for reasonableness to the extent that we believe appropriate based on the purpose for which it has been used.

The analysis summarized in this report involves actuarial calculations that require assumptions about future events. These calculations are performed using actuarial models, the intended purpose of which is the estimation and projection of the Plan’s liabilities, assets, zone status, and other related information summarized herein. We believe that the assumptions and methods used in this report are reasonable individually and in the aggregate, and are appropriate for the purposes for which they have been used. However, other assumptions and methods could also be reasonable and could generate materially different results. We have relied on the input of experts in developing certain assumptions, such as mortality and the valuation interest rate.

Because it is not possible or practical to model all aspects of a situation, we may use summary information, estimates, or simplifications of calculations to facilitate the modeling of future events. We may also exclude factors or data that are immaterial in our judgment. Future events and actual experience will vary from the assumptions we have used, and calculations prepared with actual data will vary from estimates or summaries used for modeling purposes. Actual future results will differ from our projections. As these differences arise, contributions and/or benefits may need to be adjusted to take these changes into account.

We have not performed a detailed analysis of the potential range of future results in this report, but various reports provided throughout the year include information regarding the significant risks inherent in the Plan. A more detailed assessment of the risks – including additional scenario tests, sensitivity tests, stress tests, and stochastic modeling – would allow the Trustees to better understand how deviations from the assumptions may affect the Plan.

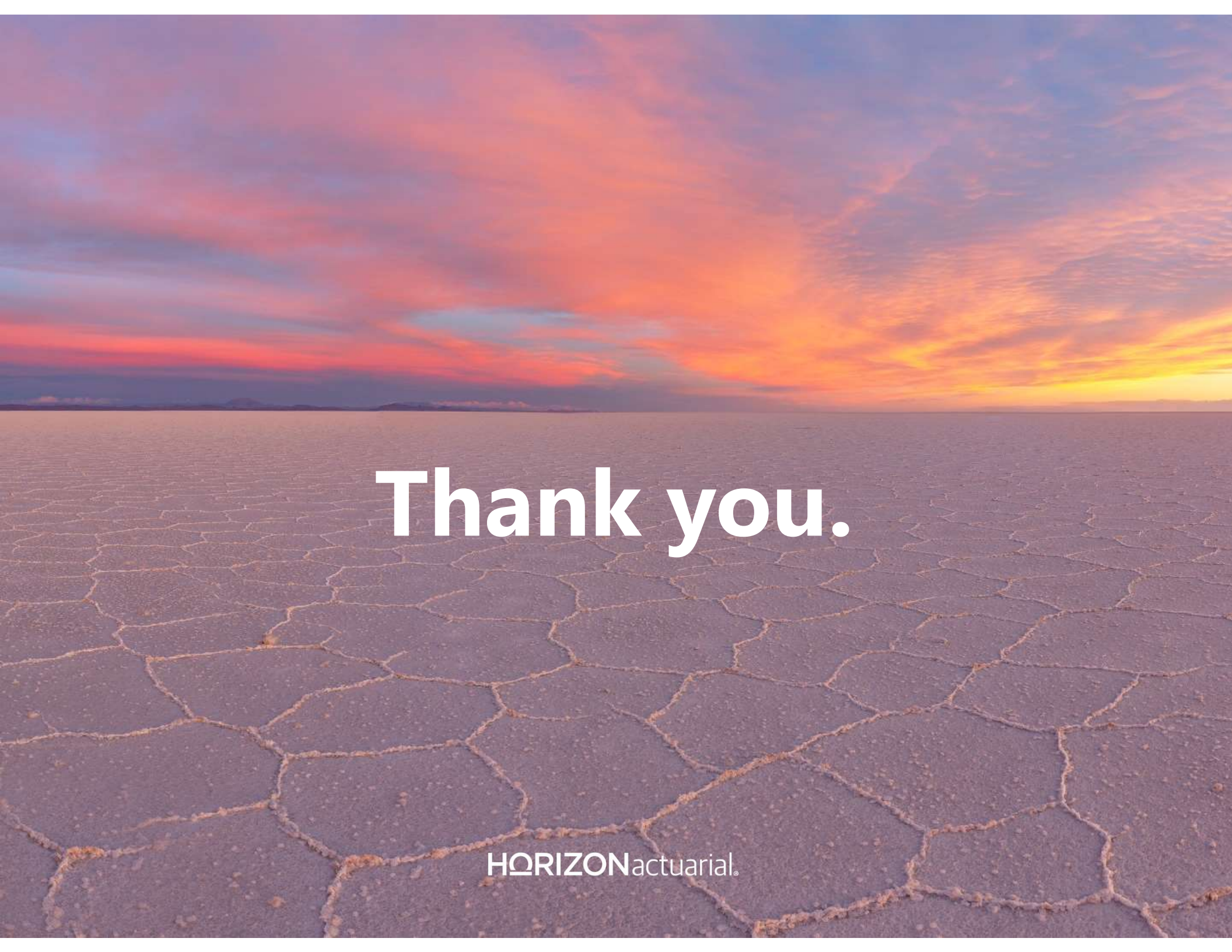
In our opinion, all methods, assumptions, and calculations are in accordance with the applicable provisions of the Internal Revenue Code and ERISA, and the procedures followed and presentation of results conform with generally accepted actuarial principles and practices. The undersigned consultants of Horizon Actuarial Services, LLC with actuarial credentials meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. There is no relationship between the Plan and Horizon Actuarial Services, LLC that affects our objectivity.



Mary Ann Dunleavy, ASA, EA, MAAA  
Actuary and Managing Consultant



Peter Bernstein, FSA, EA, MAAA  
Consulting Actuary

A wide-angle photograph of a sunset over a vast, cracked, dry lake bed. The sky is filled with soft, colorful clouds in shades of orange, pink, and blue. The ground is a flat, cracked surface of dry earth, with the cracks forming a pattern of irregular polygons. The horizon line is straight and divides the image into two halves.

# Thank you.

**HORIZON**actuarial.