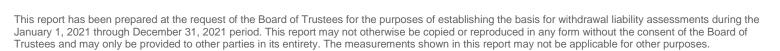
### Sheet Metal Workers' National Pension Fund

Withdrawal Liability Valuation as of December 31, 2020



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Segal





September 29, 2021

Board of Trustees Sheet Metal Workers' National Pension Fund Falls Church, Virginia

Dear Trustees:

This report summarizes and reviews the Plan's status and experience with respect to employer withdrawal liability. It outlines the withdrawal liability method adopted and explains the calculation of the amount of liability of a withdrawn employer. It also establishes the basis for assessments of withdrawal liability for a withdrawal during the period January 1, 2021 through December 31, 2021.

The actuarial calculations were completed under the supervision of Daniel V. Ciner, MAAA, Enrolled Actuary. The basic participant and financial data used in this report are the same as those used in the actuarial valuation as of January 1, 2021. The benefit provisions included in the calculations are those that were in effect on December 31, 2021. The method described in the PBGC Technical Update 10-3 has been used to account for reductions in benefits that occurred as a result of implementation of the Rehabilitation Plan when the Plan was in critical (Red Zone) status.

We look forward to reviewing this report with you at your next meeting and to answering any questions you may have.

Sincerely,

Segal

By:

David A. Dean, MAAA, EA Senior Vice President Daniel V. Ciner, MAAA, EA Senior Vice President and Actuary Jonathan P. Scarpa, FSA, MAAA, EA Vice President and Consulting Actuary Matthew C. Pavesi Senior Vice President and Benefits Consultant

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## Important information about withdrawal liability valuations

A withdrawal liability valuation is prepared to assist in the determination and assessment of withdrawal liability. It is a forecast of future uncertain obligations of a pension plan. As such, the forecast will never precisely match the actual stream of benefits and expenses to be paid.

In order to prepare withdrawal liability valuations, Segal relies on a number of input items. These include:

Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. It is important for the Trustees to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan summary included in our report to confirm that Segal has correctly interpreted the plan of benefits. For an employer withdrawing in a particular plan year, the relevant plan provisions are those in effect at the end of the prior plan year.
The present value of vested benefits, upon which withdrawal liability for an employer is determined, is based on data provided to the actuary by the plan. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is not necessary to have perfect data for a valuation: the valuation is an estimated forecast, not a prediction. Notwithstanding the above, it is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
The withdrawal liability valuation is based on the asset values as of the valuation date, typically reported by the auditor. The allocation of the unfunded present value of vested benefits to an employer is based on its detailed obligated contribution information as well as that for other participating employers, as provided by the plan.
In measuring the present value of vested benefits for withdrawal liability purposes, Segal starts by developing a forecast of the vested benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. This requires actuarial assumptions as to the probability of death and retirement. The forecasted benefits are then discounted to a present value. The actuarial model used to develop the present value of vested benefits for withdrawal liability purposes may use approximations and estimates that will have an immaterial impact on our results. In addition, the actuarial assumptions may change over time, and while this can have a significant impact on the reported results, it does not mean that the previous assumptions or results were unreasonable or wrong.
Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.

Given the above, the user of Segal's withdrawal liability valuation report (or other actuarial calculations) needs to keep the following in mind:

The withdrawal liability valuation report is prepared for use by the Trustees. It includes information relative to the provisions of ERISA pertaining to withdrawal liability. Segal is not responsible for the use or misuse of its report, particularly by any other party.

A withdrawal liability valuation is a measurement as of a specific date — it is not a prediction of a plan's future financial condition. Accordingly, Segal did not perform an analysis of other potential financial measurements.

The measurements in this report are not necessarily appropriate for assessing the sufficiency of Plan assets to cover the estimated cost of settling the Plan's benefit obligations or the need for or the amount of future contributions.

Segal does not provide investment, legal, accounting, or tax advice. This withdrawal liability valuation report is based on Segal's understanding of applicable guidance in these areas and of the plan's provisions, but may be subject to alternative interpretations. The Trustees should look to their other advisors for expertise in these areas.

While Segal maintains extensive quality assurance procedures, a withdrawal liability valuation involves complex computer models and numerous inputs. In the event that an inaccuracy is discovered after presentation of Segal's results, Segal may revise that valuation report or make an appropriate adjustment in the next valuation.

Segal's withdrawal liability report shall be deemed to be final and accepted by the Trustees upon delivery and review. Trustees should notify Segal immediately of any questions or concerns about the final content.

As Segal has no discretionary authority with respect to the management or assets of the Plan, it is not a fiduciary in its capacity as actuaries and consultants with respect to the Plan.



### Significant issues in valuation year

- The unfunded vested liability as of December 31, 2020 is \$4.9 billion excluding Affected Benefits pools, as compared to \$4.7 billion last year. A positive basic pool of \$0.7 billion was established for 2020. The increase in the unfunded vested liability since last year was primarily due to the decrease in the PBGC interest rates partially offset by the greater than expected investment return. In addition, a reallocated pool of \$10.9 million was established for 2020.
- The unamortized balance of the Affected Benefits pools, representing the value of benefit reductions under the Rehabilitation Plan when the Plan was in critical (Red Zone) status, is \$249.8 million.
- The market value investment return for the year ended December 31, 2020 was 11.60%.
- Interest rates used to determine the funded portion of the present value of vested benefits changed from 2.53% for all years to 1.62% for 20 years and 1.40% thereafter (PBGC interest rates).
- Under the Plan's benefit accrual formula, based on applicable 3-year average market value investment returns, the Applicable Percentage changed from 0.75% for the 2019 Plan Year to 0.50% for the 2020 Plan Year.

## **Summary of key results**

		Decemb	er 31,
		2019	2020
Demographic	Number of pensioners and beneficiaries <sup>1</sup>	48,834	49,524
Data:	Number of inactive vested participants <sup>2</sup>	32,750	33,641
	Number of active vested participants	44,600	43,785
	Total number of participants	126,184	126,950
Interest	Valuation (funding) interest rate	7.50%	7.50%
Assumptions:	PBGC interest rates	2.53% for all years	1.62% for 20 years, 1.40% thereafter
Present Value of	Present value of vested benefits at funding interest rate	\$7,654,234,303	\$7,798,392,188
Vested Benefits <sup>3:</sup>	<ul> <li>Present value of vested benefits at PBGC rates, including allowance for expenses</li> </ul>	14,819,774,386	17,686,411,197
	Present value of vested benefits for withdrawal liability purposes	10,455,932,827	11,422,647,631
Unfunded Vested	Market value of assets <sup>4</sup>	\$5,794,474,602	\$6,482,600,001
Liability <sup>3</sup> :	<ul> <li>Unfunded vested liability for withdrawal liability purposes (excluding Affected Benefits pools)</li> </ul>	4,661,458,225	4,940,047,630
	Unamortized balance of Affected Benefits pools	316,527,670	249,811,238
	Unamortized balance of reallocated pools	55,252,663	61,740,537
	Total amount allocable to withdrawing employers	5,033,238,558	5,251,599,405
New Withdrawal	Basic pool	\$315,232,971	\$717,193,372
Liability Pools Established:	Reallocated pool	1,377,958	10,935,730

<sup>1</sup> Excludes alternate payees in pay status (1,359 for 2019 and 1,384 for 2020)

<sup>2</sup> Excludes alternate payees with deferred benefits (472 for 2019 and 477 for 2020)

<sup>3</sup> Includes liabilities for alternate payees4 Includes net withdrawal liability receivable

### **Determination of withdrawal liability**

The Multiemployer Pension Plan Amendments Act of 1980 (MPPAA) requires assessment of withdrawal liability on an employer that withdraws from the Plan. In general, "withdrawal" means the employer has permanently ceased operations under the Plan or has permanently ceased to have an obligation to contribute to the Plan.

An employer in the construction industry is considered to have withdrawn from the Plan only if it continues (or within five years resumes) the same type of work in the jurisdiction of the labor contract.

#### **Determination of unfunded vested liability**

The amount of withdrawal liability is based on the Plan's unfunded vested liability at the time of withdrawal. The "unfunded vested liability" refers to the value of vested benefits not covered by assets.

For withdrawal liability purposes, "vested benefits" are the benefits that are considered non-forfeitable if the participant incurs a permanent break in service. The value of these benefits is based on the Plan provisions as of the same date.

Determinations of the value of the liability for vested benefits are based on a set of actuarial assumptions. The law prescribes that the assumptions and methods used must be reasonable in the aggregate and "offer the actuary's best estimate of anticipated experience under the plan." It also authorizes the PBGC to promulgate assumptions and methods for use by the Plan's actuary. However, the PBGC has not yet promulgated any assumptions or methods.

The actuarial assumptions and methods are reasonable (taking into account the experience of the Plan and reasonable expectations) and, in combination, represent the actuary's best estimate of anticipated experience under the Plan to determine the unfunded vested benefits for withdrawal liability purposes.

The interest rate is based on a blend, which includes rates selected based on estimated annuity purchase rates for benefits being settled, because withdrawal liability is a final settlement of an employer's obligations to the Plan. For benefits that could be settled immediately, because assets on hand are sufficient, the annuity purchase rates are those promulgated by PBGC under ERISA Sec. 4044 for multiemployer plans terminating by mass withdrawal on the measurement date. For benefits that cannot be settled immediately because they are not currently funded, the calculation uses rates equal to the interest rate used for plan funding calculations.



#### **Allocation**

The Plan's method of allocation is fully described in *Section 3, Exhibit A*. Briefly, the method involves prorating the unfunded vested liability as of December 31, 1979 plus (or minus) a proration of changes in that figure in each subsequent year before withdrawal. The original unfunded vested liability and each year's change are subject to 5% annual write-downs. This method is known as the "presumptive method" and is the method adopted by the Trustees.

The Trustees have adopted one modification to this method. In any year following a merger, the pools are restarted. Therefore, after the merger of Local 38 effective January 1, 1999, all liability pools established in 1998 or earlier were eliminated. The presumptive method was then reinitiated with a single liability pool set up for 1999 (i.e., the initial pool).

Another amount is added to the total amount to be allocated for possible withdrawal liability, namely, the amounts not collected because of bankruptcy, deductibles subtracted from amounts actually assessed, or other limitations on withdrawal assessments specified by law. These uncollected or nonassessable amounts are reallocated among the employer accounts and are also subject to 5% annual write-downs.

Also, a pool is added to the total amount representing the present value of vested benefits that were eliminated during the year due to implementation of the Rehabilitation Plan. This pool, called the Affected Benefits pool, is amortized over 15 years at the interest rate used for plan funding.

The PBGC has affirmed that a multiemployer plan may assess withdrawal liability to employers that withdraw even if the plan currently has no unfunded vested liability.

#### De minimis

Each withdrawal liability assessment is the total of the unamortized balances of the allocation amounts, as defined above, less a *de minimis* deductible. The deductible is \$50,000 but not more than 3/4% of the Plan's unfunded vested liability. This deductible amount is reduced, dollar for dollar, by the amount by which the total of charges prorated to the employer exceeds \$100,000.



### Payment of withdrawal liability

The total amount of an employer's withdrawal liability is not ordinarily payable in a lump sum. The law sets forth a basis for calculating annual amounts, to be paid in quarterly installments unless the plan has fixed some other schedule, and there is a 20-year payment maximum. The payment schedule adopted by the Trustees is more fully detailed in *Section 3, Exhibit A*.

Under certain circumstances, as allowed by ERISA, the Trustees may require immediate payment of withdrawal liability assessments.

### **Unfunded vested liability**

The determination of the unfunded vested liability is based on the actuarial assumptions and methods and plan of benefits described in *Section 4* of this report.

#### Changes since prior year

The following changes were made since last year's determination:

- PBGC interest rates changed from 2.53% for all years to 1.62% for 20 years and 1.40% thereafter.
- Under the Plan's benefit accrual formula, based on applicable 3-year average market value investment returns, the Applicable Percentage changed from 0.75% for the 2019 Plan Year to 0.50% for the 2020 Plan Year.

#### **Basic pools**

The Plan's unfunded vested liability for withdrawal liability purposes for each of the past 20 plan years is detailed below.

The chargeable change amount is determined as the unfunded vested liability for a given year less the greater of the sum of the previous unamortized balances or zero. The unamortized balance of each chargeable change is equal to the initial amount with a 5% write-down each year since the establishment of said amount.

Basic Pools as of December 31, 2020

Plan Year Ended December 31	Unfunded Vested Liability	Chargeable Change	Unamortized Balance of Chargeable Change
2001	\$1,672,005,971	\$756,448,968	\$37,822,448
2002	2,279,737,125	695,678,342	69,567,834
2003	2,295,768,754	138,762,735	20,814,410
2004	2,556,022,442	389,922,930	77,984,586
2005	2,626,361,805	219,504,752	54,876,188
2006	3,125,995,466	659,774,289	197,932,287
2007	3,283,243,150	350,377,024	122,631,958
2008	2,905,946,043	(166,648,911)	(66,659,564)
2009	3,213,007,196	509,376,896	229,219,603
2010	3,541,489,308	556,266,708	278,133,354
2011	3,875,896,499	590,005,117	324,502,814
2012	4,275,068,600	684,270,284	410,562,170
2013	4,115,908,264	160,151,360	104,098,384
2014	4,407,461,882	618,872,884	433,211,019
2015	4,856,394,008	807,195,035	605,396,276
2016	5,094,416,662	636,645,316	509,316,253
2017	4,896,667,337	232,705,600	197,799,760
2018	4,805,880,634	351,303,507	316,173,156
2019	4,661,458,225	315,232,971	299,471,322
2020	4,940,047,630	717,193,372	717,193,372
Total			\$4,940,047,630

#### **Reallocated amounts**

Withdrawing employers are charged with prorated shares of the "nonassessable" or "uncollectible" liabilities that are reallocated. Reallocation is more fully described in *Section 3, Exhibit A*.

Each annual reallocated amount is written down by 5% of the original amount for each full year from the date that it was originally determined to the end of the plan year preceding withdrawal.

During the 2020 plan year, there was \$178,588 that was non-assessable as a result of de minimis amounts. Additionally, there were \$10,757,142 in withdrawal liability payments that were deemed non-collectible. As a result, a reallocated pool equal to \$10,935,730 was established as of December 31, 2020, as shown in the chart on the following page.

### Reallocated Pools as of December 31, 2020

Plan Year Ended December 31	Initial Value	Unamortized Balance
2001	\$1,466,151	\$73,308
2002	754,760	75,476
2003	1,694,632	254,195
2004	4,470,812	894,162
2005	584,963	146,241
2006	1,768,092	530,428
2007	2,740,446	959,156
2008	842,692	337,077
2009	5,087,176	2,289,229
2010	9,185,020	4,592,510
2011	6,839,258	3,761,592
2012	8,571,492	5,142,895
2013	6,629,378	4,309,096
2014	13,269,251	9,288,476
2015	8,756,994	6,567,746
2016	734,153	587,322
2017	10,648,767	9,051,452
2018	705,984	635,386
2019	1,377,958	1,309,060
2020	10,935,730	10,935,730
Total		\$61,740,537

#### Affected benefits pools

The Affected Benefits pools (as described in PBGC Technical Update 10-3) represent the present value of vested benefits that were eliminated each year due to implementation of the Rehabilitation Plan when the Plan was in critical (Red Zone) status. These pools are amortized over 15 years at the interest rate used for plan funding for the plan year for which the pool was established.

No Affected Benefits pools are established for years that the Plan was not certified to be in critical status.

#### Affected Benefits Pools as of December 31, 2020

Plan Year Ended December 31	Initial Value	Unamortized Balance
2008	\$715,689,683	\$210,846,742
2009	97,042	36,821
2010	71,615,261	32,824,649
2011	9,317,175	4,954,435
2012	165,983	99,596
2013	1,580,864	1,048,995
2014	0	0
2015	0	0
2016	0	0
2017	0	0
2018	0	0
2019	0	0
2020	0	0
Total		\$249,811,238

### Method for allocating withdrawal liability

The Plan determines the liability of an employer that has completely withdrawn on the basis of the statutory presumptive method defined in Section 4211(b) of ERISA, modified to restart the pools following a year in which there is a merger. This occurred most recently after Local 38 merged into the Plan effective January 1, 1999.

The liability of an employer for complete withdrawal from the Plan is determined as the sum of the unamortized balances, as of the end of the plan year preceding withdrawal, of the employer's prorated shares of each of the following:

- The Plan's unfunded vested liability as of December 31, 1999
- The change in the Plan's unfunded vested liability as of the end of each subsequent plan year (to the end of the plan year preceding withdrawal)
- Reallocated amounts that would have been payable to the Plan as withdrawal liability payments for withdrawals in preceding years, except that they were nonassessable under certain statutory provisions or not collectible
- Amounts representing the present value of vested benefits eliminated due to implementation of the Rehabilitation Plan (Affected Benefits)

#### **Unamortized balances**

The "unamortized balance" of each of these sources of liability assessment (other than Affected Benefits pools) is determined by reducing each figure by 5% of its original amount for each full year from the end of the plan year as of which the charge was originally determined to the end of the plan year immediately preceding withdrawal. The Affected Benefits pools are amortized over 15 years at the interest rate used for plan funding for the Plan Year for which the pool was established.

#### **Initial amount**

The Plan's unfunded vested liability as of December 31, 1999 was determined by subtracting the market value of Plan assets from the value of vested benefits under the Plan.

#### **Annual changes**

The change in the Plan's unfunded vested liability as of the end of any plan year is generally determined as follows:

- By establishing the Plan's unfunded vested liability as of the end of that plan year, and
- By subtracting the total, not less than zero, of (a) the unamortized balance of the unfunded vested liability as of December 31, 1999 and (b) the unamortized balances of each previous annual change after December 31, 1999

A "positive" change represents an unfunded vested liability greater than the total of the unamortized balances and is an addition to potential liability assessments for future withdrawals. A "negative" change represents an unfunded vested liability lower than the total of unamortized balances and is a credit against amounts that would otherwise determine potential liability assessments for future withdrawals.

#### Reallocated amounts

The total amount, if any, of unfunded vested liability determined in any plan year after December 31, 1999 to be nonassessable or uncollectible with respect to employers that withdrew is established as an amount to be prorated among each of the participating employers as an additional withdrawal liability amount. Nonassessable amounts consist of amounts deducted under the *de minimis* rule (ERISA Section 4209), amounts not payable because of the 20-year limit (ERISA Section 4219(c)(1)), and amounts not payable because of the limitations in the event of sale of all of the employer's assets (ERISA Section 4225). Uncollectible amounts consist of amounts that the Trustees have determined are uncollectible for reasons arising out of cases under federal bankruptcy law or similar proceedings. They also include any other amount of assessed liability determined by the Plan's Trustees to be uncollectible.

Each annual amount of reallocable nonassessables and uncollectibles is written down by 5% of the original amount for each full year from the date as of which it was originally determined to the end of the plan year preceding withdrawal.

#### **Affected benefits**

A pool is added to the total amount representing the value of vested benefits that were eliminated during the year due to implementation of the Rehabilitation Plan when the Plan was in critical (Red Zone) status. This pool, called the Affected Benefits pool, is amortized over 15 years at the interest rate used for plan funding for the plan year for which the pool is established.

#### Proration to the employer

For determining the amount of its liability in the event of its complete withdrawal, the initial amount of unfunded vested liability, each annual change in the unfunded vested liability and, each annual reallocable amount of nonassessable and uncollectible amounts is prorated to an employer on the basis of a ratio of contributions. The ratio is the employer's obligated contributions to the Plan to total employer contributions made to the Plan during an "apportionment base period," consisting of the 5 years ending with the end of the plan year as of which each of the amounts was determined.

The total of employer contributions with respect to an apportionment base period is reduced by any contributions otherwise included in the total that were made by a significant employer that withdrew from the Plan in or before the plan year in which the change or reallocation arose. The total is also reduced by any employer surcharges paid to a plan that resulted from the plan being in critical status under PPA '06. MPRA provides that contribution increases that go into effect after December 31, 2014 pursuant to a Funding Improvement or Rehabilitation Plan are also disregarded in determining the allocation of unfunded vested liability, unless the additional contributions are used to provide an increase in benefits.

#### Payment of withdrawal liability

A withdrawn employer's withdrawal liability assessment is payable in quarterly installments. The quarterly installment is calculated as one-fourth of the product of:

- The average base units in the three consecutive years that produce the highest average within the 10-year period ending before the plan year of withdrawal
- The highest contribution rate in the 10-year period ending with the plan year of withdrawal

Per MPRA, increases in the contribution rate required under a Funding Improvement or a Rehabilitation Plan that go into effect after December 31, 2014 are excluded from the determination of the highest rate in the 10-year period described above, unless the additional contributions are used to provide an increase in benefits.

The number of quarterly installments is calculated on the basis of the amount of withdrawal liability and interest at the actuarial valuation rate used for funding purposes. Payments are limited to a maximum of 20 years.

#### Maintenance of allocations

Even if no employer withdrawal had occurred, an annual determination of the Plan's unfunded vested liability, and of any reallocable uncollectible withdrawal liability amounts, is required. The Plan must be in a position to allocate liability to any particular employer based on its contribution history. These procedures and records are necessary in order to be able to determine an assessment should withdrawal occur and also to respond to an inquiry from a participating employer as to the amount of its potential liability.

#### Partial withdrawal

The withdrawal may also be partial. A "partial withdrawal" occurs if there is a 70% decline in the number of contribution base units or there is a partial cessation of the employer's obligation to contribute. A 70% decline occurs if the contribution base units in the plan year and the preceding two plan years (the testing period) are less than 30% of contribution base units for the high base year. The "high base year" is the average of the base units in the two plan years in which the base units were the highest within the five plan years preceding the testing period. A partial withdrawal may also occur if an employer ceases to have an obligation to contribute under one or more, but not all of its collective bargaining agreements, and continues work in the jurisdiction, or if the employer permanently ceases to be obligated to contribute for work performed at one or more, but not all, of the facilities covered but continues the work at that facility.

For a construction-industry plan, a partial withdrawal occurs only if the employer is obligated to contribute to the plan for only an insubstantial portion of its continuing work of the type covered by the plan within the jurisdiction of the labor agreement.

Under a partial withdrawal, the amount of liability is equal to the amount of withdrawal liability for a complete withdrawal (net of any deductible), multiplied by a fraction, which is one minus a ratio. The ratio is that of the employer's contribution base units in the plan year following the year of the partial withdrawal to the employer's average contribution base units in the five plan years preceding the year of the partial withdrawal.

#### Plan reentry

PBGC has issued regulations describing the procedure to be followed in the event an employer reenters the Plan after incurring withdrawal liability. Withdrawal liability will be abated if the post-reentry level of contribution base units exceed 30% of the average of the contribution

base units in the two plan years in which the base units were the highest within the five plan years preceding the plan year of withdrawal, provided the employer posts a bond or escrow account equal to 70% of the withdrawal liability payments otherwise due. In the event of a withdrawal following reentry, the withdrawal liability is adjusted to reflect prior withdrawal liability payments.

### Employer withdrawal liability worksheet for withdrawals from January 1, 2021 through December 31, 2021

**Employer Name:** 

	_	Inamortized Baland ithdrawal Liability			5-Year Period Ending With I Established	Liability Alloc	ated:
Year Ended December 31 <sup>1</sup>	Basic Pools <sup>2</sup>	Reallocated Pools <sup>3</sup>	Affected Benefits Pools <sup>4</sup>	Total Plan Contributions⁵	Obligated Employer Contributions <sup>6</sup>	$[(6) \div (5)]$ $[(2) + (3) + (3)$	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
2001	\$37,822,448	\$73,308	\$0	\$1,108,035,485	\$	\$	
2002	69,567,834	75,476	0	1,156,086,641			
2003	20,814,410	254,195	0	1,180,264,191			
2004	77,984,586	894,162	0	1,193,749,349			
2005	54,876,188	146,241	0	1,210,189,788			
2006	197,932,287	530,428	0	1,275,299,752			
2007	122,631,958	959,156	0	1,367,978,490			
2008	-66,659,564	337,077	210,846,742	1,498,738,835			
2009	229,219,603	2,289,229	36,821	1,579,997,694			
2010	278,133,354	4,592,510	32,824,649	1,618,194,282			
2011	324,502,814	3,761,592	4,954,435	1,654,151,482			
2012	410,562,170	5,142,895	99,596	1,689,780,634			
2013	104,098,384	4,309,096	1,048,995	1,706,299,106			
2014	433,211,019	9,288,476	0	1,791,923,116			
2015	605,396,276	6,567,746	0	1,947,039,073			
2016	509,316,253	587,322	0	2,112,433,865			
2017	197,799,760	9,051,452	0	2,284,129,430			
2018	316,173,156	635,386	0	2,491,259,424			
2019	299,471,322	1,309,060	0	2,672,928,838			
2020	717,193,372	10,935,730	0	2,758,301,968			
. Gross Allocabl	le Share of Unfunde	d Vested Liability: (	Sum of Column 7)			\$	
. De minimis		•	,			\$	50,00
Deductible: \$1	00,000 + (B) - (A), I	but not greater than	(B) nor less than zero			\$	
				ro and without regard to ar	nnual payment limitations	\$	

<sup>1</sup> Years not shown have no withdrawal liability component.



<sup>2</sup> Original value of changes in unfunded vested liability, written down 5% per year.

<sup>3</sup> Original value of nonassessable and uncollectible withdrawal liability, written down 5% per year.

<sup>4</sup> Original value of Plan's vested benefits eliminated each year due to the Rehabilitation Plan when the Plan was in critical (Red Zone) status, amortized over 15 years at the interest rate used for plan funding for the Plan Year for which the pool was established.

<sup>5</sup> Total Fund contributions for the Plan year listed and the four preceding years, excluding contributions from significant withdrawn employers who withdrew on or before the date the pool was established and disregarding certain contribution rate increases per MPRA, if applicable.

<sup>6</sup> Obligated employer contributions for the Plan year listed and the four preceding years, including contributions owed but not yet paid and disregarding certain contribution rate increases per MPRA, if applicable.

<sup>7</sup> Does not reflect impact of partial withdrawal, limitation on annual payments or sale of assets.

September 29, 2021

#### Actuarial Certification of Withdrawal Liability

This is to certify that Segal has prepared an Actuarial Valuation to calculate the pools used to assess withdrawal liability to employers who withdraw during the year beginning January 1, 2021. The calculations were performed in accordance with generally accepted actuarial principles and practices. This valuation report may not otherwise be copied or reproduced in any form without the consent of the Board of Trustees and may only be provided to other parties in its entirety.

The valuation was based on draft information supplied by the auditor with respect to contributions and assets and by the Plan Administrator with respect to the data required on participants. We have not verified and customarily would not verify such information, but we have no reason to doubt its substantial accuracy.

I am a member of the American Academy of Actuaries and I meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of my knowledge, the information supplied in this Actuarial Valuation is complete and accurate, except as noted in *Exhibit A*, and in my opinion the assumptions used, in the aggregate, (a) are reasonable (taking into account the experience of the Plan and reasonable expectations) and (b) represent my best estimate of anticipated experience under the Plan.

Daniel V. Ciner, MAAA

Senior Vice President and Actuary Enrolled Actuary No. 20-05773

## **Exhibit A: Calculation of Unfunded Vested Liability**

The valuation was made with respect to the following data supplied to us by the Plan Administrator:

Pensioners as of the valuation date (including 9,533 beneficiaries in pay status and 84 pensioners and 9 beneficiaries in suspended status)	49,524
Participants inactive during year ended December 31, 2020 with vested rights (including 112 beneficiaries with rights to deferred pensions and 60 participants with unknown age)	33,641
Participants active with vested rights (including 53 participants with unknown age)	43,785
Total participants	126,950
he actuarial factors as of the valuation date are as follows:	
Present value of vested benefits at funding interest rate <sup>1</sup>	\$7,798,392,188
Present value of vested benefits at PBGC interest rates, including allowance for expenses1	17,686,411,197
Market value of assets	6,482,600,001
Funded ratio at PBGC interest rates	0.366530
Present value of vested benefits for withdrawal liability purposes	\$11,422,647,631
Unfunded vested liability (excluding Affected Benefits pools)	4,940,047,630
Unamortized balance of Affected Benefits pools	249,811,238
Unamortized balance of reallocated pools	61,740,537



<sup>1</sup> Includes liabilities for 1,384 alternate payees in pay status and 477 alternate payees with deferred benefits who are excluded from the above counts.

**Exhibit B: Withdrawal Liability Pools** 

Pool -		Original Amount		Pool Balan	ce on December	31, 2020 '
Established December 31	Basic Pool	Reallocated Pool	Affected Benefits Pool	Basic Pool	Reallocated Pool	Affected Benefits Pool
2001	\$756,448,968	\$1,466,151	\$0	\$37,822,448	\$73,308	\$0
2002	695,678,342	754,760	0	69,567,834	75,476	0
2003	138,762,735	1,694,632	0	20,814,410	254,195	0
2004	389,922,930	4,470,812	0	77,984,586	894,162	0
2005	219,504,752	584,963	0	54,876,188	146,241	0
2006	659,774,289	1,768,092	0	197,932,287	530,428	0
2007	350,377,024	2,740,446	0	122,631,958	959,156	0
2008	-166,648,911	842,692	715,689,683	-66,659,564	337,077	210,846,742
2009	509,376,896	5,087,176	97,042	229,219,603	2,289,229	36,821
2010	556,266,708	9,185,020	71,615,261	278,133,354	4,592,510	32,824,649
2011	590,005,117	6,839,258	9,317,175	324,502,814	3,761,592	4,954,435
2012	684,270,284	8,571,492	165,983	410,562,170	5,142,895	99,596
2013	160,151,360	6,629,378	1,580,864	104,098,384	4,309,096	1,048,995
2014	618,872,884	13,269,251	0	433,211,019	9,288,476	0
2015	807,195,035	8,756,994	0	605,396,276	6,567,746	0
2016	636,645,316	734,153	0	509,316,253	587,322	0
2017	232,705,600	10,648,767	0	197,799,760	9,051,452	0
2018	351,303,507	705,984	0	316,173,156	635,386	0
2019	315,232,971	1,377,958	0	299,471,322	1,309,060	0
2020	717,193,372	10,935,730	0	717,193,372	10,935,730	0

<sup>1</sup> Basic and reallocated pools are written down annually at the rate of 5% of the original amount. The Affected Benefits pools are amortized over 15 years at the interest rate used for plan funding for the year for which the pool was established.



## **Exhibit C: Actuarial Assumptions and Methods**

Rationale for Demographic Assumptions	The information and analyses used in selecting each demographic assumption that has a significant effect on this actuarial valuation are shown in the experience study report titled: "Demographic Experience Analysis: January 1, 2013 through December 31, 2017," dated April 2, 2019. Current data is reviewed in conjunction with each annual valuation. Based on professional judgment, no assumption changes are warranted at this time.
Investment Return	To the extent the vested benefits are matched by the market value of plan assets on hand: interest assumptions prescribed by the Pension Benefit Guaranty Corporation under 29 C.F.R. Ch. XL, Part 4044, which are in effect for the applicable withdrawal liability valuation date, are used.  PBGC Interest Rates as of December 31, 2020:  — First 20 years 1.62%  — After 20 years 1.40%  To the extent the vested benefits are not matched by plan assets (at market), the interest assumption is the same as used for plan funding:7.50%  The portion of the vested benefits that is matched by readily available assets is determined by comparing the total present value of vested benefits plus expenses — at PBGC rates — with the total market value of assets; each vested benefit is treated as covered by assets to the same extent as all other vested benefits.  The discount rate is based on a blend, which includes rates selected based on estimated annuity purchase rates for benefits being settled, because withdrawal liability is a final settlement of an employer's obligations to the Plan. For benefits that could be settled immediately, because assets on hand are sufficient, the annuity purchase rates are those promulgated by PBGC under ERISA Sec. 4044 for multiemployer plans terminating by mass withdrawal on the measurement date. For benefits that cannot be settled immediately because they are not currently funded, the calculation uses rates equal to the discount rate used for plan funding calculations. Affected Benefits liabilities are valued at the same interest rate assumption used for plan funding for the plan year for which the pool is established.

#### **Mortality Rates**

- Healthy Male Employee: 103% of the RP-2006 Blue Collar Healthy Male Employee Mortality Table, projected generationally from 2006 with scale MP-2018
- Healthy Female Employee: 108% of the RP-2006 Blue Collar Healthy Female Employee Mortality Table, projected generationally from 2006 with scale MP-2018
- Healthy Male Pensioner or Beneficiary: 103% of the RP-2006 Blue Collar Male Healthy Annuitant Mortality Table, projected generationally from 2006 with scale MP-2018
- Healthy Female Pensioner or Beneficiary: 108% of the RP-2006 Blue Collar Female Healthy Annuitant Mortality
   Table, projected generationally from 2006 with scale MP-2018
- Disabled Male: 90% of the RP-2006 Disabled Male Retiree Mortality Table, projected generationally from 2006 with scale MP-2018
- Disabled Female: 100% of the RP-2006 Disabled Female Retiree Mortality Table, projected generationally from 2006 with scale MP-2018

The above tables with generational projections to the ages of participants as of the measurement date reasonably reflect the mortality experience of the Plan as of the measurement date. The mortality tables were then adjusted to future years using the generational projection to reflect future mortality improvement between the measurement date and those years.

## Annuitant Mortality Rates

	Rate (%) <sup>1</sup>			
	Heal	Healthy		bled
Age	Male	Female	Male	Female
55	0.62%	0.46%	2.11%	1.54%
60	0.92%	0.70%	2.53%	1.92%
65	1.40%	1.01%	3.07%	2.22%
70	2.10%	1.52%	3.76%	2.84%
75	3.30%	2.50%	4.97%	4.13%
80	5.46%	4.28%	7.05%	6.33%
85	9.24%	7.53%	10.53%	9.69%
90	15.67%	13.05%	16.18%	14.33%

<sup>&</sup>lt;sup>1</sup> Mortality rates are projected on a generational basis using Scale MP-2018. Rates above are sample rates in 2021.

Employee Mortality Rates		Rate	(%)
		Morta	ılity <sup>1</sup>
	Age	Male	Female
	20	0.06%	0.02%
	25	0.08%	0.03%
	30	0.08%	0.03%
	35	0.09%	0.04%
	40	0.11%	0.06%

45 50

55 60 0.14%

0.23%

0.37%

0.66%

## Retirement Rates for Active Participants

#### **Annual Retirement Rates**

0.08%

0.13%

0.22%

0.33%

Age	Not Eligible for Special Early	Eligible for Special Early but not for 55/30 (60/30) Pension	Eligible for 55/30 (60/30) Pension <sup>1</sup>
55	5%	5%	30%
56-57	5	5	15
58	5	5	15
59	5	8	15
60	6	10	25
61	9	14	25
62	22	33	40
63	13	21	25
64	16	24	25
65-66	25	35	40
67-69	25	35	30
70	100	100	100

<sup>&</sup>lt;sup>1</sup> Rate at first eligibility for 55/30 (60/30, if applicable) Pension is 30% or above rate at applicable age, if higher

<sup>&</sup>lt;sup>1</sup> Mortality rates are projected on a generational basis using Scale MP-2018. Rates above are sample rates in 2021.

Retirement Rates for Inactive Vested						
Participants		Age	Not Eligible for Special Early	Eligible for Special Early but not for 55/30 (60/30) Pension	Eligible for 55/30 (60/30) Pension	
		55	5%	15%	65%	
		56	5	10	40	
		57	5	10	45	
		58	5	15	40	
		59	5	15	25	
		60	5	15	30	
		61	5	20	30	
		62	10	50	50	
		63	10	30	50	
		64	15	30	50	
		65	35	35	50	
		66-79	25	50	50	
		80	100	100	100	
Unknown Data for Participants		Same as those exhibited by participants with similar known characteristics. If not specified, participants are assumed to be male.				ipants are assumed to
Percent Married	80%					
Age and Sex of Spouse	is assu	Spouse of male participant is assumed to be three years younger than the participant and spouse of female participant is assumed to be three years older than the participant. If the spouse's sex is not provided, the spouse is assumed to be the opposite sex of the participant.				
Benefit Election	50% of participants are assumed to elect a single life annuity, 20% of participants are assumed to elect a 50% joint and survivor annuity (with popup, if available), and 30% of participants are assumed to elect a 100% joint and survivor annuity (with popup, if available).					
Annual Administrative Expenses	\$10,000, plus \$200 per vested participant, plus a percentage (defined by statute) of the excess of the value of plan benefits over \$200,000, and is applicable to the portion of benefits that is matched by assets.					
Value of Assets	At Market Value					
Allocation Method	Presumptive, with fresh start in the year following a merger (most recently in 1999)					

Contribution Period for Prorating Liabilities	5 years. Contributions from significant withdrawn employers as of the date each pool is established are excluded. Contribution rate increases under the Funding Improvement Plan after December 31, 2014 are recognized if they result in increases in benefits.
De minimis Deductible	\$50,000, or 3/4 of 1% of the unfunded vested liability, if smaller. The deductible is reduced, dollar for dollar, if the gross assessment is in excess of \$100,000
Free Look	An employer that would otherwise incur a complete withdrawal or a partial withdrawal will not be deemed to have withdrawn, despite the cessation of its obligation to contribute to the Plan, if all of the following conditions are met:
	The employer first had an obligation to contribute to the Plan on or after January 1, 2015.
	• The employer had an obligation to contribute to the Plan for no more than 48 consecutive calendar months, starting with the first month for which the employer is obligated to contribute to the Plan.
	The employer was obligated to make Plan contributions for each year through the date of withdrawal in an amount
	that was less than 2% of the sum of all employer contributions made to the Plan for each of such years.
	• The employer has never before avoided full or partial withdrawal liability from the Plan under the Free Look provision.
	<ul> <li>Any past service credit otherwise grantable to participants (other than current pensioners) for employment with the employer is cancelled.</li> </ul>
	• The ratio of the Fund's assets to benefit payments made during the year preceding the first plan year for which the employer was required to contribute to the Plan was at least 8-to-1.
Affected Benefits Pools	The Affected Benefits pools (as described by PBGC Technical Update 10-3) represent the present value of vested benefits that were eliminated each year due to implementation of the Rehabilitation Plan. Each pool is determined using the same interest rate assumption used for plan funding for the plan year for which it is established, and is amortized over 15 years at that interest rate.

## **Exhibit D: Summary of Plan Provisions**

This exhibit summarizes the major provisions of the Plan included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions.

Plan Year	January 1 through December 31				
Pension Credit Year	January 1 through December 31				
Plan Status	Ongoing plan				
Normal Retirement	Age Requirement: 65				
	Service Requirement: Five years of participation in the Plan				
	Amount: Described below.				
	- For service on and after January 1, 2014:				
	Participant's Benefit Rate multiplied by the participant's Contribution Hours for the Plan Year multiplied by the Applicable Percentage for the Plan Year.				
	Participants working under a Collective Bargaining Agreement that qualifies for a 55 the Benefit Rate is the total Contribution Rate less the 55/30 (or 60/30) Rate (30% o periods after December 1, 2007).	fit Rate is the portion of the participant's contribution rate that is subject to benefit accruals. For cipants working under a Collective Bargaining Agreement that qualifies for a 55/30 (or 60/30) Pension, enefit Rate is the total Contribution Rate less the 55/30 (or 60/30) Rate (30% of the Contribution Rate for ds after December 1, 2007).			
	Contribution Hours are the hours for which contributions are required to be made for Covered Employment.	ntribution Hours are the hours for which contributions are required to be made for the participant's work in			
	<ul> <li>Applicable Percentage is based on the average of the Plan's rate of market value investment return for each of the three most recent Plan Years reported in the Actuarial Valuation and Review as of January 1 of the immediately preceding Plan Year and is defined in the following table:</li> </ul>				
	Applicable Average of Market Value Investment Retu Percentage Percentages for 3 Most Recent Plan Yea				
	1.25% 10.0% or higher				
	1.00% 8.5% or higher but less than 10.0%				
	0.75% 6.5% or higher but less than 8.5%				
	0.50% Greater than 0% but less than 6.5%				
	0.00% 0.0% or less				
	The above formula applies unless otherwise stated in a Funding Improvement Plan valuation date, all contribution rate increases pursuant to the Funding Improvement additional benefit accruals based on an increased Benefit Rate and the Applicable Feach Plan Year. The Applicable Personters for the 2020 Plan Year is 0.5%	Plan have resulted in			
	The Applicable Percentage for the 2020 Plan Year is 0.5%.				

## Normal Retirement (continued)

#### - For service and on and after adoption of Rehabilitation Plan Schedule and before January 1, 2014:

- Default Schedule/Persons for Whom Contribution were Not Required to be Made ("Persons for Whom"): 1% of the amount determined by multiplying the participant's Benefit Rate by the participant's Contribution Hours for the Plan Year.
- First Alternative Schedule: Same as accrual for service on and after December 1, 2007 and before adoption of Rehabilitation Plan Schedule.
- Second Alternative Schedule: 1% of the amount determined by multiplying the participant's Benefit Rate by the participant's Contribution Hours for the Plan Year.
- ❖ Formerly Alternative Schedule and Agreement Did Not Include Required Contribution Rate Increases -No Increase Consequences ("NIC"): 1% of the amount determined by multiplying the participant's Benefit Rate by the participant's Contribution Hours for the Plan Year.

#### - For service and on and after December 1, 2007 and before adoption of Rehabilitation Plan Schedule:

- Employers that have not made required contribution rate increases: Same as accrual for service after August 31, 2003.
- Employers that have made required contribution rate increases: 1.5% of the amount determined by multiplying the participant's Benefit Rate by the participant's Contribution Hours for the Plan Year (up to 1,200 hours), plus 0.7% of the amount determined by multiplying the participant's Benefit Rate by the participant's Contribution Hours (over 1,200 hours). The 1.5% multiplier is applied to the first 1,200 hours at the highest Benefit Rate in effect during the Plan Year.

#### - For service and on and after August 31, 2003 and before December 1, 2007:

- 0.8571% of the amount determined by multiplying the participant's Benefit Rate by the participant's Contribution Hours (up to 1,400 hours), plus 0.3% of the amount determined by multiplying the participant's Benefit Rate by the participant's Contribution Hours (over 1,400 hours). For participants in 55/30 Locals, 80% of the total contribution rate is subject to benefit accruals. The 0.8571% multiplier is applied to the first 1,400 hours at the highest Benefit Rate in effect during the Plan Year.
- Supplemental accruals:
  - Locals are required to increase their contribution rates subject to benefit accruals by 10% annually for eligibility. Participants of Locals that make the required increases earn a supplemental accrual that brings the total accrual to twice the normal rate in the year following the increase.
- For service and on and after December 31, 1999 and before September 1, 2003:
  - ❖ 1.7142% of the amount determined by multiplying the participant's Benefit Rate by the participant's Contribution Hours (up to 1,400 hours), plus 0.6% of the amount determined by multiplying the participant's Benefit Rate by the participant's Contribution Hours (over 1,400 hours). The 1.7142% multiplier is applied to the first 1,400 hours at the highest Benefit Rate in effect during the Plan Year.

- For service before January 1, 2000:				
Benefit accrued according to the rules of the Plan in effect on December 31, 1999				
- Past service:				
❖ \$10.00 for each year of Past Service Credit, if any, up to 10 years				
<ul> <li>Post-Normal Retirement Age Adjustment: Regular pension accrued at Normal Retirement Age (NRA), increased by 1.0% for each month greater than NRA, and 1.5% for each month greater than age 70</li> </ul>				
<ul> <li>The following applies to all participants with an effective date of pension on or after February 1, 2014 retiring under are early retirement provision (Standard Early Retirement, Special Early Retirement, Age 62 Pension, 55/30 Pension, and 60/30 Pension).</li> </ul>				
<ul> <li>Previously, the provisions described for benefits accrued before January 1, 2014 were in effect. Participant may be eligible for different early retirement provisions for pre-2014 and post-2013 accrued benefits. Portions of the post-2013 accrued benefits may also be subject different early retirement provisions depending on the classification of employment of the participant's Contribution Hours.</li> </ul>				
Age Requirement: 55				
Service Requirement: Fulfill any one of the following:				
a. 10 years of Pension Credits, including at least five years of Future Service Credit, or				
b. 10 years of Vesting Service, or				
c. 15 years of Pension Credits, including at least 12 months of Future Service Credit				
Amount: Normal Retirement benefit reduced as described below.				
<ul> <li>For benefits accrued on and after January 1, 2014:</li> </ul>				
Reductions based on the participant's Funding Improvement Plan Option, which depends upon the Schedule or Rehabilitation Plan provision which applied to the classification of employment when the Plan was in critical status.				
Default Option	Actuarially from age 65 (Unsubsidized Early Retirement Pension)			
First Alternative Option	6% per year from age 65			
Second Alternative Option	Actuarially from age 65 (Unsubsidized Early Retirement Pension)			
- For benefits accrued before January 1, 2014:				
Reductions based on the participant's Funding Improvement Plan Option, which depends upon the Schedule or Rehabilitation Plan provision which applied to the classification of employment when the Plan was in critical status.				
Detault Schedule/				
Persons for Whom	Actuarially from age 65 (Unsubsidized Early Retirement Pension)			
Persons for Whom  * First Alternative Schedule	Actuarially from age 65 (Unsubsidized Early Retirement Pension)  6% per year from age 65			
Persons for Whom  First Alternative Schedule  Second Alternative Schedule	Actuarially from age 65 (Unsubsidized Early Retirement Pension) 6% per year from age 65 Actuarially from age 65 (Unsubsidized Early Retirement Pension)			
	<ul> <li>Benefit accrued according to the Past service:</li> <li>\$10.00 for each year of Past S</li> <li>Post-Normal Retirement Age Adjustion 1.0% for each month greater than Nion 1.0% for different early retirement 2.013 accrued benefits may also be semployment of the participant's Continuous 1.0% for each participant: 55</li> <li>Service Requirement: Fulfill any one a. 10 years of Pension Credits, incomposition 1.0% for pension Credits, incomposition 1.0% for pension Retirement benefit 1.0% for benefits accrued on and after Reductions based on the participant Rehabilitation Plan provision which the Participant Reductions based on the participant Reductions based on the participant Rehabilitation Plan provision which the Participant Reductions based on the participant Reductions based on the participant Rehabilitation Plan provision which the Participant Reductions based on the participant Reductions Plan provision which the Participant Reductions Plan provision which the Participant Reductions Plan provision which the Participant Reductions Plan provision wh</li></ul>			

## Special Early Retirement

- Age Requirement: 55
- Service Requirement: Fulfill any one of the following:
  - a. 10 years of Pension Credits, including at least five years of Future Service Credit, or
  - b. 10 years of Vesting Service, or
  - c. 15 years of Pension Credits, including at least 12 months of Future Service Credit
- Active Service Requirement: Complete at least 3,500 hours of work in covered employment during the five consecutive calendar years immediately preceding retirement
- Amount: Normal Retirement benefit reduced as described below.
  - For benefits accrued on and after January 1, 2014:

Reductions based on the participant's Funding Improvement Plan Option, which depends upon the Schedule or Rehabilitation Plan provision which applied to the classification of employment when the Plan was in critical status.

Default Option
Unavailable

❖ First Alternative Option 6% per year from age 62

❖ Second Alternative Option Unavailable

For benefits accrued before January 1, 2014:

Reductions based on the participant's Funding Improvement Plan Option, which depends upon the Schedule or Rehabilitation Plan provision which applied to the classification of employment when the Plan was in critical status.

❖ Default Schedule/

Persons for Whom Unavailable

First Alternative Schedule 6% per year from age 62

Second Alternative ScheduleNICUnavailableUnavailable

#### Age 62 Pension

- Age Requirement: 62
- Service Requirement: Same as Special Early Retirement
- · Active Service Requirement: Same as Special Early Retirement
- Amount: Described below.
  - For benefits accrued on and after January 1, 2014:

Reductions based on the participant's Funding Improvement Plan Option, which depends upon the Schedule or Rehabilitation Plan provision which applied to the classification of employment when the Plan was in critical status.

Default OptionFirst Alternative OptionUnavailable

❖ Second Alternative Option Normal Retirement Benefit amount

- For benefits accrued before January 1, 2014:

Amount based on the participant's Home Local Schedule (Rehabilitation Plan Schedule) when the Plan was in critical status.

Default Schedule/

Persons for Whom Unavailable

❖ First Alternative Schedule Unavailable

❖ Second Alternative Schedule
 ❖ NIC
 Normal Retirement Benefit amount
 Normal Retirement Benefit amount

#### 55/30 Pension

- Age Requirement: 55
- Service Requirement: 30 years of Future Service Credit with at least 60 months of the last 120 months of Future Service Credit subject to a 55/30 Rate
- Active Service Requirement: Complete at least 3,500 hours of work in covered employment at 55/30 Rate during the five consecutive calendar years immediately preceding retirement
- Amount: Described below.
  - For benefits accrued on and after January 1, 2014:

Reductions based on the participant's Funding Improvement Plan Option, which depends upon the Schedule or Rehabilitation Plan provision which applied to the classification of employment when the Plan was in critical status.

Default Option
Unavailable

❖ First Alternative Option
Normal Retirement Benefit amount

Second Alternative Option Unavailable

For benefits accrued before January 1, 2014:

Amount based on the participant's Home Local Schedule (Rehabilitation Plan Schedule) when the Plan was in critical status.

Default Schedule/

Persons for Whom Unavailable

❖ First Alternative Schedule Normal Retirement Benefit amount

❖ Second Alternative Schedule
 ❖ NIC
 Unavailable
 Unavailable

	s 55/30 Pension r January 1, 2014:				
<ul> <li>Active Service Requirement: Same as</li> <li>Amount: Described below.</li> <li>For benefits accrued on and after Reductions based on the participant</li> </ul>	s 55/30 Pension r January 1, 2014:				
<ul> <li>Amount: Described below.</li> <li>For benefits accrued on and after Reductions based on the participan</li> </ul>	r January 1, 2014:				
<ul> <li>For benefits accrued on and after Reductions based on the participan</li> </ul>	•				
Reductions based on the participan	•				
	nt's Funding Improvement Plan Option, which depends upon the Schedule or				
	Reductions based on the participant's Funding Improvement Plan Option, which depends upon the Schedule or Rehabilitation Plan provision which applied to the classification of employment when the Plan was in critical status.				
❖ Default Option Unavailable					
First Alternative Option	Unavailable				
Second Alternative Option	Normal Retirement Benefit amount				
<ul> <li>For benefits accrued before January 1, 2014:</li> </ul>					
Amount based on the participant's Home Local Schedule (Rehabilitation Plan Schedule) when the Plan was in critical status.					
<ul><li>Default Schedule/ Persons for Whom</li></ul>	Unavailable				
First Alternative Schedule	Unavailable				
Second Alternative Schedule	Normal Retirement Benefit amount				
* NIC	Unavailable				
Age Requirement: None					
Service Requirement: Five years of Vesting Service.					
<ul> <li>Amount: Normal Retirement benefit amount, based on plan in effect when last active</li> </ul>					
Normal Retirement Age: 65					
Age Requirement: None					
<ul> <li>Amount: 50% of the monthly benefit the participant would have received had he/she terminated employment on</li> </ul>					
his/her date of death and survived to his/her Early Retirement Date (or any later date elected by the spouse), retired and elected to receive benefits in the Normal Form of payment.					
<ul> <li>When Paid: Immediately if participant's death occurred after attainment of his/her earliest retirement age, otherwise month in which the participant would have attained his/her earliest retirement age. If surviving spouse elects to receive payments before the month in which participant would have attained his/her earliest retirement age, the monthly benefit will be the actuarial equivalent of the amount described above.</li> </ul>					
	<ul> <li>First Alternative Option</li> <li>Second Alternative Option</li> <li>For benefits accrued before Janual Amount based on the participant's critical status.</li> <li>Default Schedule/ Persons for Whom</li> <li>First Alternative Schedule</li> <li>Second Alternative Schedule</li> <li>NIC</li> <li>Age Requirement: None</li> <li>Service Requirement: Five years of V</li> <li>Amount: Normal Retirement benefit at</li> <li>Normal Retirement Age: 65</li> <li>Age Requirement: Has attained V</li> <li>Amount: 50% of the monthly benefit this/her date of death and survived to and elected to receive benefits in the</li> <li>When Paid: Immediately if participant month in which the participant would receive payments before the month in</li> </ul>				

#### Post-Retirement Death **Benefit**

50% Joint and Survivor: If married, pension benefits are paid in the form of a 50% joint and survivor annuity unless the participant and spouse reject this form. If not rejected, the benefit amount otherwise payable is reduced to reflect the joint and survivor coverage. If not rejected, the spouse predeceases the employee, and the employee retired on March 1, 1999 or later, the employee's benefit amount will subsequently be increased to the unreduced amount payable ("pop-up" feature) had the joint and survivor coverage been rejected. If rejected, or if not married, benefits are payable for the life of the employee, or in any other available optional form elected by the employee in an actuarially equivalent amount.

The "pop-up" feature is only applicable to pre-2014 benefits if the participant's Home Local Schedule/Rehabilitation Plan Schedule as of December 31, 2013 was the First Alternative Schedule or Second Alternative Schedule. It is only applicable to post-2013 benefits attributable to Contribution Hours worked under a collective bargaining agreement satisfying the required contribution rate increases under the Rehabilitation Plan First Alternative Schedule/Funding Improvement Plan First Alternative Option or Rehabilitation Plan Second Alternative Schedule/Funding Improvement Plan Second Alternative Option.

60-Month Certain: If the member has completed at least 15 years of Pension Credits before retirement and died within 5 years after retirement (if married, and taking joint and survivor pension, the spouse also died prior to receiving an amount equal to 60 times the amount of the pension the participant had been entitled), the pension benefit will continue to be paid to the participant's designated beneficiary until a total of 60 months payments had been made.

The 60-month certain is only applicable to pre-2014 benefits if the participant's Home Local Schedule/Rehabilitation Plan Schedule as of December 31, 2013 was the First Alternative Schedule or Second Alternative Schedule. It is only applicable to post-2013 benefits attributable to Contribution Hours worked under a collective bargaining agreement satisfying the required contribution rate increases under the Rehabilitation Plan First Alternative Schedule/Funding Improvement Plan First Alternative Option or Rehabilitation Plan Second Alternative Schedule/Funding Improvement Plan Second Alternative Option.

#### **Forms of Payment**

The normal forms of payment are:

- Single life annuity for single participants, and
- 50% joint and survivor annuity with a "pop-up" feature for married participants (if applicable)

The available optional forms of payment are:

- Single life annuity with 60-month certain (if applicable)
- 50% joint and survivor annuity with a "pop-up" feature and 60-month certain (if applicable)
- 75% joint and survivor annuity with a "pop-up" feature (if applicable)
- 100% joint and survivor annuity with and without a "pop-up" feature (if applicable)

The "pop-up" feature and 60-month certain are only applicable to pre-2014 benefits if the participant's Home Local Schedule/Rehabilitation Plan Schedule as of December 31, 2013 was the First Alternative Schedule or Second Alternative Schedule. They are only applicable to post-2013 benefits attributable to Contribution Hours worked under a collective bargaining agreement satisfying the required contribution rate increases under the Rehabilitation Plan First Alternative Schedule/Funding Improvement Plan First Alternative Option or Rehabilitation Plan Second Alternative Schedule/Funding Improvement Plan Second Alternative Option.

Participation	After completion of 870 hours during a calendar year				
Past Service Credit	<ul> <li>Service granted on the basis of days worked or amount earned in covered employment in calendar years prior to a participant's Contribution Date. For employers with a Contribution Date on or after January 1, 2000, the employer's initial contribution rate must be at least \$0.50 per hour.</li> </ul>				
Future Service Credit	Service granted on the basis of with the following schedule:	f hours of work in a caler  Months of Future  Service Credit	idar year after a Participant's Co Hours of Work in Covered Employment During Calendar Year	ontribution Date in accordance	
		0	Less than 100		
		1	100 - 199		
		2	200 - 299		
		3	300 - 399	-	
		4	400 - 499		
		5	500 - 599	-	
		6	600 - 699		
		7	700 - 799	_	
		8	800 - 899		
		9	900 - 999	_	
		10	1,000 - 1,099		
		11	1,100 - 1,199	_	
		12	1,200 & Over		
Pension Credit	Sum of the Past Service Credit and Future Service Credit (excluding service lost under the Plan's break in service rules)				
Vesting Credit	870 or more hours of work within a Plan year earns one year of Vesting Service				
Contribution Rate	<ul> <li>Varies from \$0.05 to \$20.05 per hour as of the valuation date. The average rate is \$5.26 per hour as of December 31, 2020. 2.5% of certain employer contributions are allocated to 401(h) Medical Accounts but are subject to pension benefit accruals.</li> </ul>				
Required Contribution	Contribution rate increases required under the Funding Improvement Plan Options are described below.				
Increases	• First Alternative Option: None for 2019 through 2020, 2.0% for 2021 and 2022.				
	<ul> <li>Second Alternative Option: None for 2019 through 2020, 1.0% for 2021 and 2022.</li> </ul>				

#### **Cost of Living** Adjustment (COLA)

- Eligibility: Pensioners and beneficiaries whose benefits are based on contribution rates that were increased by the Required Pension Fund Increase and who separated and retired from Covered Employment on or after January 1, 1991 and before December 1, 2001. No payment is made after January 1, 2008 unless the annual supplement had been in effect 60 months before that date (i.e., the benefit must have been payable on the participant's Allocation Date for 2002 - October 31, 2002).
- Amount: An annual supplement equal to 2% of the participant's total monthly payments for the 12 months immediately preceding the Allocation Date, multiplied by the number of whole years preceding the Allocation Date that the participant or beneficiary has received benefits, up to a maximum of 15 years. If the participant had elected a level income option, the 2% factor is applied to the benefit prior to the adjustment for the form of payment.
  - Effective July 1, 1995, no NPF COLA Benefit is payable with respect to any benefits accrued after June 30, 1995.
- A participant who was retired and received an annual supplemental increase under the NPF COLA Benefit for the 2002 Allocation Date will continue to receive the benefit, but it will not exceed the supplement that was paid for the 2002 Allocation Date (i.e., it remains fixed at that amount).

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