Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation



## **Ironworkers Local Union No. 16 Pension Fund**

Actuarial Valuation Report for Plan Year Beginning January 1, 2017 and Ending December 31, 2017

November, 2017

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation



November 28, 2017

Board of Trustees of Ironworkers Local Union No. 16 Pension Fund c/o Zenith American Solutions 8600 LaSalle Road Oxford Building – Suite 624 Towson, MD 21286

#### Dear Trustees:

This report presents the results of the actuarial valuation of the Ironworkers Local Union No. 16 Pension Fund as of January 1, 2017. The primary purposes of the report are to:

- Determine the minimum funding requirements of ERISA and Sections 412 and 431 of the Internal Revenue Code for the Plan Year ending December 31, 2017.
- Estimate the limitation on maximum deductible contributions.
- Compare the minimum funding requirement to the contributions expected to be paid by the contributing employers.
- Develop information required to be disclosed in accordance with Accounting Standards Codification (ASC) Topic 960 and Schedule MB (Form 5500).
- Calculate the Unfunded Vested Benefit Liability (UVB) for withdrawal liability purposes under the Multiemployer Pension Plan Amendments Act of 1980.
- Report on the Plan's status with respect to the Pension Protection Act of 2006 ("PPA '06"), as amended.

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This valuation has been prepared on an ongoing plan basis and the use of this report for purposes other than those enumerated above may be inappropriate.

To the best of our knowledge and belief, all Plan participants as of January 1, 2017 and all Plan provisions in effect on that date have been reflected in the valuation. Participant data were furnished by the Plan Administrator and financial information was taken from the Plan's audited financial statements.

We hereby certify that all of our calculations have been in conformity with generally accepted actuarial principles and practices, and that the actuarial assumptions which are not mandated by federal law and regulations are reasonable and represent our best estimate of the anticipated experience under the Plan.

We will be pleased to review this report at your convenience.

Respectfully submitted,

James J. McKeogh, F.S.A.

Boris Vaynblat, F.S.A.

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#### PART I

DISCUSSION OF PRINCIPAL VALUATION RESULTS

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#### Section 1.1

#### Valuation Highlights

Minimum Funding Requirement The minimum funding requirement was \$0 for the Plan Year ending December 31, 2016. The minimum funding

requirement for the Plan Year ending December 31, 2017 is also \$0.

PPA '06 Certification The Plan was certified to be in critical & declining status for the Plan Year beginning January 1, 2017. See

Section 1.7 for PPA'06 projections.

Rehabilitation Plan The Trustees originally adopted a Rehabilitation Plan in 2012 that called for reductions in benefits and increases

in the contribution rate. The Rehabilitation Plan was subsequently amended a few times to further reduce benefits and increase contribution rates. Nevertheless, projections indicate that the Plan will become insolvent

during 2033 (see Section 1.7).

The Rehabilitation Plan was last amended on June 21, 2017 to reconfirm that it is in the best interest of all Plan participants to resubmit an application for suspension of benefits with the Department of Treasury in the 2017

calendar year.

Covered Employment Contribution hours for the 2016 Plan Year were about 353,000, including net reciprocated hours of about 88,000.

Contribution hours for the 2017 Plan Year are projected to be about 355,000, including net reciprocated hours of

about 94,000.

**Investments** The return on the actuarial value of assets (net of investment expenses) for the year ending December 31, 2016

was 9.98%, which is above the 7.00% assumption. The return on the market value of assets (net of investment

expenses) for the year ending December 31, 2016 was 8.16%.

Withdrawal Liability Withdrawal liability is based, in part, on the unfunded vested benefit liability and the value of affected benefits.

Affected benefits are reductions in non-forfeitable benefits made in accordance with a Rehabilitation Plan.

The unfunded vested benefit liability increased from \$41.3 million as of December 31, 2015 to \$51.0 million as

of December 31, 2016. The unamortized balance of affected benefits increased from \$5.4 million as of

December 31, 2015 to \$5.6 million as of December 31, 2016 due to additional benefit reductions.

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Section 1.2

Comparison of Key Valuation Results With Those of Prior Valuations

				Plan Yea	ır B	eginning Janu	ıary	1,		
		2017		2016		2015		2014		2013
Contributions	117	4,0								
Minimum Funding Requirement	\$	0	\$	0	\$	0	\$	0	\$	0
Actual Employer Contributions		3,372,500	*	3,144,697		3,829,054		4,039,977		3,942,119
Maximum Deductible Contribution (Estimated)		192,288,901		192,886,289		191,837,444		199,488,457		202,113,108
Liabilities and Normal Cost										
Actuarial Accrued Liability	\$	131,454,298	\$	124,369,630	\$	127,843,692	\$	132,111,460	\$	135,913,896
Normal Cost		704,197		555,450		586,863		909,111		1,111,941
Present Value of Accumulated Plan Benefits		131,454,298		124,369,630		127,843,692		132,111,460		135,913,896
Present Value of Vested Plan Benefits		129,925,351		122,618,327		125,031,800		127,122,248		128,099,706
RPA '94 Current Liability		193,326,125		194,297,552		194,275,554		198,570,648		199,752,266
Assets										
Market Value	\$	78,965,081	\$	81,295,236	\$	86,225,376	\$	88,229,274	\$	82,519,260
Actuarial Value		77,977,641		79,123,179		80,612,110		80,647,479		81,384,100
<b>Participant Counts</b>										
Active		189		233		261		278		284
Persons with Deferred Benefits		244		213		191		181		209
Disabled Persons in Pay Status		30		34		35		37		34
Retirees and Beneficiaries	2	603	200	604		619	10	623	-	610
Total		1,066		1,084		1,106		1,119		1,137
PPA '06 Certification Results										
Plan Status	Cı	ritical & Decl.	C	ritical & Decl.	C	ritical & Decl.		Critical		Critical
Funded Percentage (Actuarial Value Basis)		64.2%		63.6%		62.1%		61.4%		60.2%

<sup>\*</sup> Estimated.

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#### Section 1.3

#### Plan Experience During Prior Year

The plan enjoyed favorable investment experience during the year ended December 31, 2016 as it earned 8.16% on a market value basis and 9.98% on an actuarial value basis as compared to the valuation interest rate assumption of 7.00%.

That "excess" return of 2.98% on an actuarial basis represents a gain in dollars of \$2,225,346 which is combined with a net loss from liabilities of \$168,009. A 5-year history of actuarial gains/(losses) is shown below.

			Plan Ye	ar I	Ending Decei	nbe	r 31,	
		2016	2015		2014		2013	2012
Investment Gain/(Loss) on an Actuarial V	alue	Basis						
In dollars	\$	2,225,346	\$ 1,400,672	\$	2,671,725	\$	1,970,745	\$ (7,939,091)
As a percentage of assets		3.0%	1.8%		3.5%		2.5%	-9.1%
Net Gains/(Losses) from Other Sources								
In dollars	\$	(168,009)	\$ (339,091)	\$	699,347	\$	(888,420)	\$ (1,215,942)
As a percentage of actuarial liability		-0.1%	-0.3%		0.5%		-0.7%	-0.9%
Total Experience Gain/(Loss)	\$	2,057,337	\$ 1,061,581	\$	3,371,072	\$	1,082,325	\$ (9,155,033)

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## Section 1.4 Funded Status Under ASC Topic 960 and PPA '06

During the Plan Year ended December 31, 2016, the plan's funded status for purposes of Accounting Standards Codification Topic 960 (defined as the ratio of the market value of plan assets to the present value of accumulated plan benefits) decreased from 65.4% to 60.1%. In that same year, the plan's funded status for purposes of the Pension Protection Act of 2006 (defined as the ratio of the actuarial value of plan assets to the present value of accumulated plan benefits) decreased from 63.6% to 59.3%. A 13-year history of these measures is shown below.

						Actuarial _	Funded 1	Percentage
January 1	20-	As Market Value	sets	Actuarial Value		resent Value Accumulated lan Benefits	Market Value	(PPA '06) Actuarial Value
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2017	\$	78,965,081	\$	77,977,641	\$	131,454,298	60.1%	59.3%
2016		81,295,236		79,123,179		124,369,630	65.4%	63.6%
2015		86,225,376		80,612,110		127,843,692	67.4%	63.1%
2014		88,229,274		80,647,479		132,111,460	66.8%	61.0%
2013		82,519,260		81,384,100		135,913,896	60.7%	59.9%
2012		82,304,757		91,841,977		141,260,205	58.3%	65.0%
2011		89,220,278		102,602,580		142,696,200	62.5%	71.9%
2010		89,918,019		107,901,622		145,028,413	62.0%	74.4%
2009		92,869,795		111,443,754		145,275,205	63.9%	76.7%
2008		128,329,061		124,708,399		141,251,264	90.9%	88.3%
2007		128,034,557		118,899,595		138,872,165	92.2%	85.6%
2006		120,587,669		116,156,093		133,344,781	90.4%	87.1%
2005		118,949,769		115,920,520		130,123,209	91.4%	89.1%

Note: Values shown prior to January 1, 2007 were determined by the prior actuary and are shown here for comparison purposes only.

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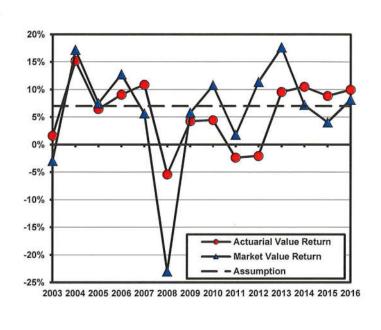
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#### Section 1.5

#### **Summary of Investment Performance**

A summary of the investment returns during the 14 years preceding the valuation date are shown below.

Plan Year		Single-Yea	ar Return	Average Deep S-Ye	
Ending Dec 31,	Valuation Assumption	Actuarial Value	Market Value	Actuarial Value	Market Value
2016	7.00%	9.98%	8.16%	7.25%	9.59%
2015	7.00%	8.84%	4.04%	4.73%	8.26%
2014	7.00%	10.49%	7.21%	3.87%	9.64%
2013	7.00%	9.56%	17.63%	2.67%	9.35%
2012	7.00%	-2.06%	11.37%	-0.30%	0.46%
2011	7.00%	-2.37%	1.78%	2.20%	-0.59%
2010	7.00%	4.45%	10.81%	4.49%	1.47%
2009	7.00%	4.24%	5.79%	4.89%	0.85%
2008	7.00%	-5.39%	-23.00%	7.01%	2.94%
2007	7.00%	10.88%	5.66%	8.55%	7.81%
2006	7.00%	9.07%	12.75%	N/A	N/A
2005	7.00%	6.47%	7.52%	N/A	N/A
2004	7.00%	15.21%	17.19%	N/A	N/A
2003	7.00%	1.61%	-2.95%	N/A	N/A



Note: Values shown prior to January 1, 2007 were determined by the prior actuary and are shown here for comparison purposes only.

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<sup>\*</sup> Time-Weighted Basis

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#### Section 1.6

#### **Statement of Changes from Prior Valuation**

Actuarial Basis -- The following changes in the actuarial basis were made from the prior year:

- 1. The interest rate for RPA '94 Current Liability purposes was changed from 3.28% to 3.05% effective January 1, 2017, for statutory compliance.
- The mortality assumption for RPA '94 Current Liability purposes was updated for statutory compliance, from the RP-2000 Tables for 2016 large plan valuations to the RP-2000 Tables for 2017 large plan valuations, with separate rates for annuitants and non-annuitants.
- The mortality assumption for healthy retirees was changed from GAM 1983 with no mortality improvement to the RP-2014 Blue Collar table with Scale MP-2017 Mortality Improvement generationally projected from 2014, to reflect expected future mortality rates.
- 4. The mortality assumption for disabled retirees was changed from 1971 GAM with no mortality improvement to the RP-2014 Disabled Retiree table with Scale MP-2017 Mortality Improvement generationally projected from 2014, to reflect expected future mortality rates.
- 5. The retirement assumption for current deferred vested participants was changed from age 65 to the age-based table of retirement rates that applies to active participants, as shown in Section 6.2, to better reflect the retirement patterns of the Plan's deferred vested participants.
- 6. The retirement assumption for future terminated vested participants was changed from age 65 to age 60, to better reflect anticipated experience.
- 7. The percent married assumption was changed from 75% to 50% to better reflect underlying plan population characteristics.
- 8. The form of payment election assumption was changed from all unmarried participants electing a straight life annuity and all married participants electing a 50% J&S with pop-up to the following: 15% of all participants elect a 50% J&S with pop-up, 30% of all participants elect a 100% J&S, 20% of all participants elect a 10 C&C, and 35% of all participants elect a straight life annuity. This assumption better reflects the form of payment election rates of retirements occurring over the past few years.
- 9. The administrative expense assumption was changed from \$320,000 to \$490,000 for the 2017 Plan Year. Assumed expenses decrease to \$335,000 for 2018, then decrease again to \$320,000 for 2019, then are assumed to increase by 2% per year from the 2019 administrative expense level. This assumption reflects the Plan's short-term increase of consulting fees due to special projects and a long-term inflation rate of 2%.

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Plan of Benefits -- There were no changes to the plan of benefits for the Plan Year Beginning January 1, 2017.

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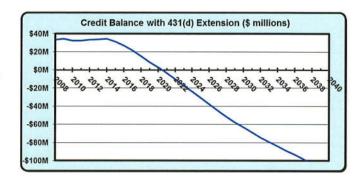
#### Section 1.7

#### **Projections**

#### Credit Balance Projection

The Funding Standard Account Credit Balance is a measure of compliance with ERISA's minimum funding standards. A non-negative Credit Balance indicates that minimum funding standards have been met. A negative Credit Balance indicates that minimum funding standards have not been met.

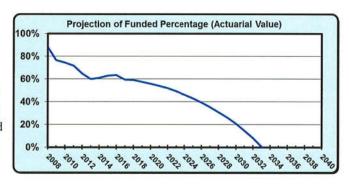
The graph to the right shows an anticipated funding deficiency (negative credit balance) by the end of the 2020 Plan Year. The graph reflects the amortization extension under Section 431(d)(1) of the Internal Revenue Code.



This graph is based on the Projection Assumptions shown below. Actual future credit balance values will differ from those projected to the extent that future experience deviates from the Projection Assumptions.

#### Funded Percentage Projection

The funded percentage is an important concept under funding reform. Under the Pension Protection Act of 2006, a plan is generally considered "critical" (in the Red Zone) if there is a funding deficiency projected within 4 years if the funded percentage exceeds 65%, or within 5 years if the funded percentage falls below 65% (other factors may apply). The funded percentage is measured by the actuarial value of assets divided by the present value of accrued benefits (determined using funding assumptions). The graph to the right illustrates that the Plan's funded percentage is currently below 65% (59%) and is anticipated to significantly decrease resulting in plan insolvency in 2033.



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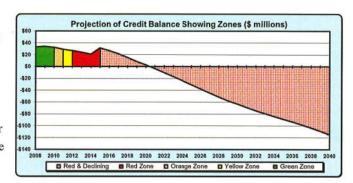
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Section 1.7

Projections (Continued)

#### Zone Projections

As shown by the red checkered area on the graph to the right, the plan is in critical and declining status as of 2017 and is projected to remain at that level for the duration of the projection period. A plan is generally in critical and declining status if it is in critical status and is projected to become insolvent within 15-20 years. In accordance with the Multiemployer Pension Reform Act of 2014, the Section 431(d)(1) amortization extension has been reflected for Plan Years beginning January 1, 2010 for bases established on or before January 1, 2010, although the extension will not improve the Plan's funded status nor affect the Plan's projected insolvency date. Actual future credit balance values will differ from those projected to the extent that future



experience deviates from the Projection Assumptions. Again, this graph is based on the Projection Assumptions shown below.

#### Projection Assumptions

The Plan's assets, liabilities and funding standard account credit balance were projected forward from the January 1, 2017 valuation based on the following assumptions:

- All valuation assumptions, other than investment return, are met during the projection period. The Plan's investment return (net of investment expenses) reflects a preliminary unaudited annualized 2017 investment return on the market value of assets of 9.47% and the assumption of 7.00% per year from January 1, 2018 forward.
- 2017 Plan Year contributions of approximately \$3.4 million, based on projected hours of 355,000 during the 2017 Plan Year and an effective hourly contribution rate of \$9.50.
- Expected benefit payments of \$11.5 million during the 2017 plan year, gradually decreasing to \$11.1 million during 2022, to \$10.2 million during 2027, to \$9.1 million during 2032, and to \$7.1 million during 2039. These benefit payments are based on an open group projection, reflecting the

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#### Section 1.7

#### Projections (Continued)

January 1, 2017 actuarial valuation and assuming the active population remains level in future years. Future new hires were assumed to have demographics equal to new hires from the 2015 and 2016 plan years.

- The active plan participant count is assumed to remain level from year to year. The demographic characteristics of the active population as a whole are dependent on the demographic characteristics of the assumed future new hires.
- Administrative expenses of \$490,000 in 2017, \$335,000 in 2018, \$320,000 in 2019, and then increasing 2% per year thereafter.
- Current differences between the market value of assets and the actuarial value of assets are phased in during the projection period in accordance with the regular operation of the asset valuation method.
- Contributions assumed to be made on the following hours of covered employment and the following effective contribution rates:

Plan Year	<u>Hours</u>	Effective Contribution Rate
2017	355,000	\$9.59
2018	330,150	\$9.59
2019	310,341	\$9.59
2020+	294,824	\$9.59

The effective contribution rate is a weighted average of the Local 16 contribution rate and the average contribution rate for hours which are expected to be reciprocated to the Plan (i.e., hours worked by Local 16 members outside of Local 16's geographic area).

• The automatic 5-year extension of amortization periods pursuant to Section 431(d) of the Internal Revenue Code is reflected effective January 1, 2010 for bases established on or before that date.

Actual future valuation results will differ from those projected to the extent that future experience deviates from these projection assumptions.

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#### PART II

**VALUATION RESULTS** 

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#### Section 2.1

#### **Summary Statistics**

					Plan Ye	ar l	Beginning Jan	uar	y 1,	
		2017			2016		2015		2014	2013
Number of Plan Participants										
Active		189			233		261		278	284
Persons with Deferred Benefits		244			213		191		181	209
All Persons In Pay Status	_	633		_	638	_	654		660	644
Total		1,066			1,084		1,106		1,119	1,137
Assets										
Market Value	\$	78,965,081		\$	81,295,236	\$	86,225,376	\$	88,229,274	\$ 82,519,260
Actuarial Value		77,977,641			79,123,179		80,612,110		80,647,479	81,384,100
Liabilities and Normal Cost										
Funding Method		Unit Credit			Unit Credit		Unit Credit		Unit Credit	Unit Credit
Actuarial Accrued Liability	\$	131,454,298		\$	124,369,630	\$	127,843,692	\$	132,111,460	\$ 135,913,896
Normal Cost		704,197			555,450		586,863		909,111	1,111,941
RPA '94 Current Liability		193,326,125			194,297,552		194,275,554		198,570,648	199,752,266
Unfunded Actuarial Accrued Liability										
Market Value Basis	\$	52,489,217		\$	43,074,394	\$	41,618,316	\$	43,882,186	\$ 53,394,636
Actuarial Value Basis		53,476,657			45,246,451		47,231,582		51,463,981	54,529,796
Contributions										
Minimum Funding Requirement	\$	0		\$	0	\$	0	\$	0	\$ 0
Actual Employer Contributions		3,372,500	*		3,144,697		3,829,054		4,039,977	3,942,119
Maximum Deductible Contribution (Estimated)		192,288,901			192,886,289		191,837,444		199,488,457	202,113,108
* Estimated										

\* Estimated.

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## Section 2.2 Actuarial Accrued Liability and Current Liability as of January 1, 2017

	Number	,	Actuarial Accrued Liability		RPA '94 Current Liability	-
Liabilities						
Active	189	\$	11,869,811	\$	22,560,127	*
Inactive Vested	244		11,509,436		23,201,854	
All Persons in Pay Status	633		108,075,051	-	147,564,144	
Total	1,066	\$	131,454,298	\$	193,326,125	
Expected Changes in Liabilities						
Expected Increase in Liability Due to Benefits Accru	ing During Year	\$	704,197	\$	1,002,358	
Expected Disbursements During Year		\$	11,977,626	\$	11,977,626	
Assumptions						
Assumed Interest Rate			7.00%		3.05%	
Assumed Mortality			014 Blue Collar, cale MP-2017		000, for 2017 large lan valuations	
Assets and RPA '94 Funded Percentage						
Actuarial Value of Assets as of January 1, 2017				\$	77,977,641	
RPA '94 Funded Current Liability Percentage					40.3%	10000

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<sup>\*</sup> Vested portion of RPA '94 Current Liability for Actives is \$19,682,895.

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Section 2.3

Development of Minimum Required Contribution - Summary

Plan Year Ending December 31.

					Plan Y	ear	Ending Decem	iber	31,		
		7	2017		2016		2015		2014		2013
1.	Normal Cost	\$	704,197	\$	555,450	\$	586,863	\$	909,111	\$	1,111,941
2.	Net Amortization		9,958,150		9,165,767		9,366,653		7,829,206		4,562,916
3.	Interest		746,364	_	680,485		696,746	_	611,682	_	397,240
4.	Total Net Charges	\$	11,408,711	\$	10,401,702	\$	10,650,262	\$	9,349,999	\$	6,072,097
5.	Credit Balance with Interest	\$	23,158,113	\$	28,791,282	\$	33,596,446	\$	36,568,772	\$	36,169,988
6.	Full Funding Credit (See Section 2.5)	\$	0	\$	0	\$	0	\$	0	\$	0
7.	Minimum Required Contribution	\$	0	\$	0	\$	0	\$	0	\$	0

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Section 2.4

Development of Minimum Required Contribution - Amortization Record

			 Initial Amount	Date of First Charge or Credit	Remaining Period*	utstanding Balance eg. of Year	mortization Charge or Credit
1.	Am	ortization Charges					
	a.	Combined Bases	\$ 35,873,400	1/1/1989	2.000	\$ 2,889,443	\$ 1,493,579
	b.	1991 Benefit Change	4,915,400	1/1/1991	9.000	2,048,411	293,835
	c.	1994 Assumption Change	1,093,800	1/1/1994	12.000	592,401	69,705
	d.	1994 Benefit Change	3,785,300	1/1/1994	12.000	2,050,034	241,218
	e.	1995 Benefit Change	563,976	1/1/1995	13.000	326,562	36,518
	f.	1996 Benefit Change	12,056,033	1/1/1996	14.000	7,407,588	791,608
	g.	1997 Benefit Change	3,069,392	1/1/1997	15.000	1,988,477	204,042
	h.	1998 Benefit Change	9,903,744	1/1/1998	16.000	6,728,044	665,622
	i.	1999 Assumption Change	6,110,025	1/1/1999	17.000	4,332,061	414,685
	j.	2000 Benefit Change	6,061,373	1/1/2000	18.000	4,466,764	415,002
	k.	2001 Benefit Change	2,142,636	1/1/2001	19.000	1,635,183	147,858
	1.	2002 Benefit Change	198,863	1/1/2002	20.000	156,673	13,822
	m.	2001 Actuarial Loss	4,022,217	1/1/2002	5.000	1,228,617	280,044
	n.	2002 Actuarial Loss	8,363,701	1/1/2003	6.000	3,127,284	613,169
	0.	2003 Benefit Change	2,219,172	1/1/2003	21.000	1,843,615	159,015
	p.	2003 Actuarial Loss	1,443,554	1/1/2004	7.000	636,349	110,351
	q.	2004 Actuarial Loss	4,850,250	1/1/2005	8.000	2,452,183	383,797
	r.	2005 Benefit Change	1,123,349	1/1/2005	23.000	958,309	79,453
	S.	2005 Actuarial Loss	2,883,606	1/1/2006	9.000	1,637,392	234,877
	t.	2007 Assumption Change	3,258,771	1/1/2007	25.000	2,900,699	232,626
	u.	2008 Plan Change	571,064	1/1/2008	11.000	390,643	48,686
	٧.	2008 Actuarial Loss	17,178,277	1/1/2009	12.000	12,675,809	1,491,504
	w.	2009 Plan Change	1,604,038	1/1/2009	12.000	1,183,612	139,271
	x.	2009 Actuarial Loss	2,680,954	1/1/2010	13.000	2,115,008	236,508

<sup>\*</sup> Remaining periods were increased by 5 years effective January 1, 2010 pursuant to an automatic extension of amortization periods under IRC Section 431(d).

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

Section 2.4

Development of Minimum Required Contribution - Amortization Record

			Initial Amount	Date of First Charge or Credit	Remaining Period	Outstanding Balance Beg. of Year	Amortization Charge or Credit	
1.	Am	ortization Charges (continued)						
	y.	2010 Actuarial Loss	\$ 1,170,736	1/1/2011	9.000	\$ 837,474	\$	120,131
	z.	2011 Actuarial Loss	8,705,794	1/1/2012	10.000	6,713,487		893,317
	aa.	2012 Actuarial Loss	9,155,033	1/1/2013	11,000	7,537,468		939,414
	ab.	2016 Assumption Change	29,896	1/1/2016	14.000	28,706		3,068
	ac.	2017 Assumption Change	9,779,476	1/1/2017	15.000	9,779,476	-	1,003,490
	ad.	Total Charges				\$ 90,667,772	\$	11,756,215
2.	Am	ortization Credits						
	a.	2012 Plan Change	\$ 5,059,966	6/1/2012	10.417	\$ 3,852,368	\$	498,286
	b.	2013 Actuarial Gain	1,082,325	1/1/2014	12.000	943,858		111,059
	c.	2014 Plan Change	2,911,822	1/1/2014	12.000	2,539,297		298,787
	d.	2014 Actuarial Gain	3,371,072	1/1/2015	13.000	3,093,380		345,912
	e.	2015 Assumption Change	685,205	1/1/2015	13.000	628,762		70,310
	f.	2015 Plan Change	571,573	1/1/2015	13.000	524,489		58,650
	g.	2015 Actuarial Gain	1,061,581	1/1/2016	14.000	1,019,336		108,931
	h.	2016 Plan Change	926,045	1/1/2016	14.000	889,192		95,023
	i.	2016 Actuarial Gain	2,057,337	1/1/2017	15.000	2,057,337	-	211,107
	j.	Total Credits				\$ 15,548,019	\$	1,798,065
3.	Cre	dit Balance				\$ 21,643,096		
4.	Bala	ance $Test = (1) - (2) - (3)$				\$ 53,476,657		
5.	Unf	funded Actuarial Accrued Liability				\$ 53,476,657		

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

## Section 2.5 Development of Minimum Required Contribution - Full Funding Limitation

			ERISA Accrued Liability		RPA '94 Current Liability
1.	Liability (Beginning of Year)	\$	131,454,298	\$	193,326,125
2.	Normal Cost	\$	704,197	\$	1,002,358
3.	Expected Disbursements During Year	\$	11,977,626	\$	11,977,626
4.	Assumed Interest Rate	37.	7.00%	7	3.05%
5.	Projected Liability (End of Year)	\$	129,019,837	\$	188,096,589
6.	Applicable Percentage		100%		90%
7.	Assets				
	a. Market Value	\$	78,965,081		N/A
	b. Actuarial Value	\$	77,977,641	\$	77,977,641
	c. Lesser of (a) and (b)	\$	77,977,641	\$	77,977,641
8.	Credit Balance	\$	21,643,096		N/A
9.	Assets Projected to End of Year	\$	47,888,211	\$	71,046,324
10.	Initial Full Funding Limitation (FFL)	\$	81,131,626	\$	98,240,606
	$= (5) \times (6) - (9)$				
11.	Full Funding Limitation, not less than RPA '94 FFL	\$	98,240,606		N/A
12.	Total Net Charges from Section 2.3	\$	11,408,711		N/A
13.	Full Funding Credits	\$	0		N/A

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

Section 2.6
Funding Standard Account Information

		-			Plan Ye	ar E	nding Decemb	ber 3	31,		
		_	2017		2016	_	2015	_	2014	_	2013
Charges	Prior Year Funding Deficiency Normal Cost for Plan Year Amortization Charges Interest Other Charges	\$	0 704,197 11,756,215 872,229 0		\$ 0 555,450 10,752,725 791,572 0	\$	0 586,863 10,749,657 793,556 0	\$	0 909,111 10,749,657 816,114 0	\$	0 1,111,941 10,749,657 830,312 0
	Total Charges	\$	13,332,641		\$ 12,099,747	\$	12,130,076	\$	12,474,882	\$	12,691,910
Credits	Prior Year Credit Balance Employer Contributions Amortization Credits Interest Full Funding Limitation Credit	\$	21,643,096 3,372,500 1,798,065 1,757,583		\$ 26,907,740 3,144,697 1,586,958 2,103,448	\$	31,398,548 3,829,054 1,383,004 2,427,210 0	\$	34,176,422 4,039,977 2,920,451 2,736,580	\$	33,803,727 3,942,119 6,186,741 2,935,745 0
	Other Credits		0		0		0		0		0
	Total Credits	\$	28,571,244	*	\$ 33,742,843	\$	39,037,816	\$	43,873,430	\$	46,868,332
Balance	Credit Balance as of December 31 = Credits Less Charges	\$	15,238,603	*	\$ 21,643,096	\$	26,907,740	\$	31,398,548	\$	34,176,422

<sup>\*</sup> Estimated.

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 2.7

#### **Estimated Maximum Deductible Contribution**

1.	Normal Cost for Plan Year Beginning January 1, 2017	\$ 704,197
2.	Unfunded Accrued Liability as of January 1, 2017, not less than 0	\$ 53,476,657
3.	Ten Year Amortization of Unfunded Accrued Liability	\$ 7,115,769
4.	Interest on (1) and (3) to End of Year	\$ 547,398
5.	Limitation Under Section 404(a)(1)(A)(iii) of Internal Revenue Code = $(1) + (3) + (4)$	\$ 8,367,364
6.	Minimum Required Contribution	\$ 0
7.	Greater of (5) and (6)	\$ 8,367,364
8.	Full Funding Limitation (See Section 2.8)	\$ 98,240,606
9.	Excess of 140% of RPA '94 Current Liability over Actuarial Value of Assets	\$ 192,288,901
10.	Limitation on Maximum Deductible Contribution for Plan Year Beginning January 1, 2017 = Lesser of (7) and (8), but not less than (9)	\$ 192,288,901

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

# Section 2.8 Estimated Maximum Deductible Contribution - Full Funding Limitation

		0	ERISA Accrued Liability		RPA '94 Current Liability
1.	Liability (Beginning of Year)	\$	131,454,298	\$	193,326,125
2.	Normal Cost	\$	704,197	\$	1,002,358
3.	Expected Disbursements During Year	\$	11,977,626	\$	11,977,626
4.	Assumed Interest Rate		7.00%		3.05%
5.	Projected Liability (End of Year)	\$	129,019,837	\$	188,096,589
6.	Applicable Percentage		100%		90%
7.	Assets a. Market Value b. Actuarial Value	\$ \$	78,965,081 77,977,641	\$	N/A 77,977,641
8.	c. Lesser of (a) and (b)	\$	77,977,641 71,046,324	\$ \$	77,977,641
9.	Assets Projected to End of Year  Full Funding Limitation (FFL)  = (5) x (6) - (8)	\$	57,973,513	\$	71,046,324 98,240,606
10.	IRC Section 404 Full Funding Limitation = Greater of ERISA FFL and RPA '94 FFL	\$	98,240,606		

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

Section 2.9

Development of Actuarial Gain/(Loss)

				Plan Ye	ear	Ending Decen	nbe	r 31,	
		_	2016	2015	_	2014		2013	2012*
1.	Unfunded accrued liability at beginning of year	\$	45,246,451	\$ 47,231,582	\$	51,463,981	\$	54,529,796	\$ 49,418,228
2.	Normal Cost for Plan Year	\$	555,450	\$ 586,863	\$	909,111	\$	1,111,941	\$ 1,248,185
3.	Interest on (1) and (2) to end of year	\$	3,206,133	\$ 3,347,291	\$	3,666,116	\$	3,894,922	\$ 3,546,649
4.	Contributions for Plan Year	\$	3,144,697	\$ 3,829,054	\$	4,039,977	\$	3,942,119	\$ 3,651,961
5.	Interest on (4) to end of Plan Year	\$	108,819	\$ 132,501	\$	139,799	\$	136,412	\$ 126,372
6.	Expected unfunded accrued liability at end of year $= (1) + (2) + (3) - (4) - (5)$	\$	45,754,518	\$ 47,204,181	\$	51,859,432	\$	55,458,128	\$ 50,434,729
7.	Unfunded accrued liability as of December 31	\$	43,697,181	\$ 46,142,600	\$	48,488,360	\$	54,375,803	\$ 59,589,762
8.	Gain/(Loss) = (6) - (7)	\$	2,057,337	\$ 1,061,581	\$	3,371,072	\$	1,082,325	\$ (9,155,033)
9.	Change in unfunded accrued liability due to:								
	a. Assumption Change	\$	9,779,476	\$ 29,896	\$	(685,205)	\$	0	\$ 0
	b. Plan Change	\$	0	\$ (926,045)	\$	(571,573)	\$	(2,911,822)	\$ (5,059,966)
	c. Method Change	\$	0	\$ 0	\$	0	\$	0	\$ 0
10.	Unfunded accrued liability as of December 31 = $(7) + (9a) + (9b) + (9c)$	\$	53,476,657	\$ 45,246,451	\$	47,231,582	\$	51,463,981	\$ 54,529,796

<sup>\*</sup> Reflects the changes to the plan of benefits under the Rehabilitation Plan, effective May 1, 2012, which were recognized on a pro rata basis for 2012 funding requirements.

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 2.10

#### Presentation of ASC Topic 960 Disclosures

					A	s of January 1	,			
A	tuarial Present Value of Accumulated Plan Benefits	2017	_	2016	_	2015	_	2014	_	2013
1.	Vested Benefits									
	a. Persons in Pay Status	\$108,075,051	\$	102,506,537	\$	105,879,757	\$	108,137,220	\$	106,722,853
	b. Persons with Deferred Benefits	11,509,436		8,971,582		7,715,856		7,433,239		7,637,772
	c. Active Participants	10,340,864		11,140,208	. 1-2-	11,436,187		11,551,789		13,739,081
	d. Total	\$ 129,925,351	\$	122,618,327	\$	125,031,800	\$	127,122,248	\$	128,099,706
2.	Non-Vested Benefits	\$ 1,528,947	\$	1,751,303	\$	2,811,892	\$	4,989,212	\$	7,814,190
3.	Total Actuarial Present Value of Accum. Plan Benefits	\$ 131,454,298	\$	124,369,630	\$	127,843,692	\$	132,111,460	\$	135,913,896
4.	Market Value of Assets	\$ 78,965,081	\$	81,295,236	\$	86,225,376	\$	88,229,274	\$	82,519,260
1. 2.	Actuarial Present Value of Accumulated Benefits, Beginni Increase (Decrease) During the Year due to:	ing of Year	\$	124,369,630	\$	127,843,692	\$	132,111,460	\$	135,913,896
2.	Increase (Decrease) During the Year due to:			12 1,5 07,000		127,0 13,072	Ψ	152,111,100	Ψ	150,515,050
	a. Benefits Accumulated *		\$	331,451	\$	543,370	\$	(40,198)	\$	1,769,640
	b. Decrease in the Discount Period			8,309,135		8,540,883		8,834,613		9,102,284
	c. Benefits Paid			(11,335,394)		(11,662,166)		(11,805,405)		(11,762,538)
	d. Plan Amendment			0		(926,045)		(571,573)		(2,911,822)
	e. Change in Actuarial Assumptions		-	9,779,476	_	29,896	=	(685,205)	_	0
	f. Net Increase (Decrease)		\$	7,084,668	\$	(3,474,062)	\$	(4,267,768)	\$	(3,802,436)
3.	Actuarial Present Value of Accumulated Benefits, End of	Year	\$	131,454,298	\$	124,369,630	\$	127,843,692	\$	132,111,460
* 1	ncludes the effects of actuarial experience gains and losses.									
161	netides the effects of actualian experience gains and losses.									

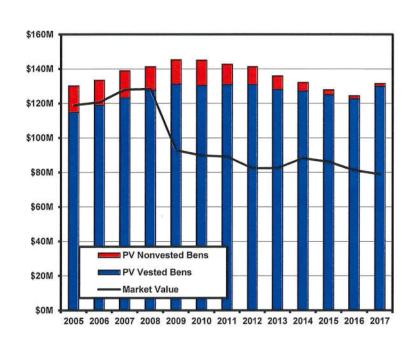
The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

Section 2.11
Historical ASC Topic 960 Information

	Actuarial Pr	eser	nt Value of	nlue of Market					
January 1,	Vested Benefits		Accum. Plan Benefits	_	Value of Assets				
2017	\$ 129,925,351	\$	131,454,298	\$	78,965,081				
2016	122,618,327		124,369,630		81,295,236				
2015	125,031,800		127,843,692		86,225,376				
2014	127,122,248		132,111,460		88,229,274				
2013	128,099,706		135,913,896		82,519,260				
2012	130,942,916		141,260,205		82,304,757				
2011	130,956,177		142,696,200		89,220,278				
2010	130,382,882		145,028,413		89,918,019				
2009	131,170,874		145,275,205		92,869,795				
2008	127,594,958		141,251,264		128,329,061				
2007	123,233,745		138,872,165		128,034,557				
2006	118,912,190		133,344,781		120,587,669				
2005	114,870,187		130,123,209		118,949,769				



Note: Values shown prior to January 1, 2007 were determined by the prior actuary and are shown here for comparison purposes only.

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

# PART III WITHDRAWAL LIABILITY INFORMATION

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

## Section 3.1 Withdrawal Liability Information

						A	As o	f December 31	ι,			
1.	Pres	sent Value of Vested Benefits	-	2016		2015		2014		2013		2012
	a. b.	Active Participants Persons with Deferred Benefits	\$	10,340,864 11,509,436	\$	11,140,208 8,971,582	\$	11,436,187 7,715,856	\$	11,551,789 7,433,239	\$	13,739,081 7,637,772
	c.	Retirees and Beneficiaries	_	108,075,051	_	102,506,537		105,879,757	_	108,137,220	_	106,722,853
	d.	Total	\$	129,925,351	\$	122,618,327	\$	125,031,800	\$	127,122,248	\$	128,099,706
2.	Mar	ket Value of Assets	\$	78,965,081	\$	81,295,236	\$	86,225,376	\$	88,229,274	\$	82,519,260
3.	Unf	funded Vested Benefit Liability (UVB)	\$	50,960,270	\$	41,323,091	\$	38,806,424	\$	38,892,974	\$	45,580,446
4.	Una	mortized Balance of Affected Benefits										
	a.	2012 Base	\$	3,309,612	\$	3,505,581	\$	3,688,730	\$	3,859,897	\$	4,019,866
	b.	2014 Base		1,764,237		1,846,103		1,922,612		0		0
	c.	2016 Base		507,423		0	_	0		0		0
	d.	Total	\$	5,581,272	\$	5,351,684	\$	5,611,342	\$	3,859,897	\$	4,019,866

Withdrawal liabilities are determined using the presumptive method as described in ERISA Section 4211(b). PBGC Regulations require that plans in critical status disregard certain benefit reductions (adjustable benefits) in determining withdrawal liability and prescribe simplified methods for making these calculations. Therefore, for purposes of calculating withdrawal liability, the UVB shown above should be increased by the amortized balance of affected benefits also shown above.

The plan of benefits for the December 31, 2016 calculation are the same as those described in Section 7.1 except as noted below:

- 1. Benefits which are first effective January 1, 2017 or later are not reflected in the UVB as of December 31, 2016.
- 2. Death benefits unrelated to pension benefits and disability benefits other than those in pay status are not included in the UVB.

The actuarial basis used in the calculation of the December, 31, 2016 UVB is the same as used in the January 1, 2017 actuarial valuation of the plan as described in Section 6 except that, as indicated, the market value of assets is used in the determination of UVB.

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

# Section 3.2 Basic Withdrawal Liability Pools

	Unfunded				Unfunded			
Year	Vested	Basic	Pools	Year	Vested	Basic Pools		
Ended	Benefit	Original	Unamortized	Ended	Benefit	Original	Unamortized	
December 31	Liability	Balance	Balance	December 31	Liability	Balance	Balance	
1997	0	0	0	2007	0	0	0	
1998	0	0	0	2008	38,301,079	38,301,079	22,980,647	
1999	0	0	0	2009	40,075,544	3,689,519	2,398,187	
2000	0	0	0	2010	41,338,363	3,362,349	2,353,644	
2001	0	0	0	2011	48,236,529	9,165,813	6,874,360	
2002	0	0	0	2012	45,580,446	69,855	55,884	
2003	0	0	0	2013	38,892,974	(3,958,041)	(3,364,335)	
2004	0	0	0	2014	38,806,424	2,444,979	2,200,481	
2005	0	0	0	2015	41,323,091	5,170,445	4,911,922	
2006	0	0	0	2016	50,960,270	12,549,479	12,549,479	

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

# Section 3.3 Reallocated Withdrawal Liability Pools

Year	Realloca	ited Pools	Year	Realloca	ated Pools
Ended December 31	Original Balance	Unamortized Balance	Ended December 31	Original Balance	Unamortized Balance
1997	0	0	2007	0	0
1998	0	0	2008	0	0
1999	0	0	2009	0	0
2000	0	0	2010	0	0
2001	0	0	2011	0	0
2002	0	0	2012	0	0
2003	0	0	2013	0	0
2004	0	0	2014	0	0
2005	0	0	2015	0	0
2006	0	0	2016	0	0

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 3.4

#### **Contribution History**

Year Ended December 31	Total Plan Contribs	Withdrawn Employer Contribs	Adjusted Contribs*	5-Year Adjusted Contribs**	Year Ended December 31	Total Plan Contribs	Withdrawn Employer Contribs	Adjusted Contribs*	5-Year Adjusted Contribs**
1993	0	0	0	n/a	2005	2,964,018	0	2,964,018	n/a
1994	0	0	0	n/a	2006	3,016,400	0	3,016,400	n/a
1995	0	0	0	n/a	2007	4,271,053	0	4,271,053	n/a
1996	0	0	0	n/a	2008	4,918,127	0	4,918,127	18,259,336
1997	0	0	0	n/a	2009	4,248,121	0	4,248,121	19,417,719
1998	0	0	0	n/a	2010	2,961,780	0	2,961,780	19,415,481
1999	0	0	0	n/a	2011	3,556,900	0	3,556,900	19,955,981
2000	0	0	0	n/a	2012	3,651,961	0	3,651,961	19,336,889
2001	0	0	0	n/a	2013	3,942,119	0	3,942,119	18,360,881
2002	0	0	0	n/a	2014	4,039,977	0	4,039,977	18,152,737
2003	0	0	0	n/a	2015	3,829,054	0	3,675,665	18,866,622
2004	3,089,738	0	3,089,738	n/a	2016	3,144,697	0	2,983,417	18,293,139

<sup>\*</sup> Total Plan contributions, adjusted for withdrawn employer contributions and starting January 1, 2015 adjusted for limitations placed by Section 109 of MPRA.

<sup>\*\*</sup> Total adjusted Plan contributions during the 5-year period ending with the December 31 of the year shown.

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

## Section 3.5 Individual Employer Withdrawal Liability Estimate Worksheet

Year	20000000	nortized Balance rawal Liability	345.0303	Unamortized Balance of		s During 5-Year in December 31,	Allocated
Ended	Basic	Reallocated	22 K 2	Affected	Adjusted	Individual	Withdrawal
December 31	Pools	Pools	Total	Benefits	Plan Total	Employer *	Liability
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) = $[(d) + (e)] \times [(g) \div (f)]$
1997	0	0	0	n/a	0 _		
1998	0	0	0	n/a	0 _		
1999	0	0	0	n/a	0 _		
2000	0	0	0	n/a	0 _		
2001	0	0	0	n/a	0 _		
2002	0	0	0	n/a	0 _		
2003	0	0	0	n/a	0 _		
2004	0	0	0	n/a	0 _		
2005	0	0	0	n/a	0 _		
2006	0	0	0	n/a	0		
2007	0	0	0	n/a	0		
2008	22,980,647	0	22,980,647	n/a	18,259,336		
2009	2,398,187	0	2,398,187	n/a	19,417,719		
2010	2,353,644	0	2,353,644	n/a	19,415,481		
2011	6,874,360	0	6,874,360	n/a	19,955,981		
2012	55,884	0	55,884	n/a	19,336,889		
2013	(3,364,335)	0	(3,364,335)	n/a	18,360,881		
2014	2,200,481	0	2,200,481	n/a	18,152,737		
2015	4,911,922	0	4,911,922	n/a	18,866,622		
2016	12,549,479	0	12,549,479	5,581,272	18,293,139		
1.	Gross Liability	(= Sum of Colur	nn (h))				
2.	De minimis An	nount = 0.75% of	UVB but not	greater than \$5	0,000		50,000
3.		100,000 + (2) - (1		_			
4.		Net Withdrawal I		0.5			-

\* For plan years ending after Dec. 31, 2014, contributions must be computed by multiplying employment hours by \$9.20, the rate in effect as of Dec. 31, 2014

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### PART IV

ASSET INFORMATION

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

## Section 4.1 Historical Asset Information

	Beginning	Change in Market Value of Assets During Plan Year				20	
Plan Year Ending December 31	of Year Market Value of Assets	Contributions	Net Investment Return	Benefit Payments	Expenses	End of Year Market Value of Assets	End of Year Actuarial Value of Assets
2016	\$ 81,295,236	\$ 3,144,697	\$ 6,283,586	\$ 11,335,394	\$ 423,044	\$ 78,965,081	\$ 77,977,641
2015	86,225,376	3,829,054	3,319,217	11,662,166	416,245	81,295,236	79,123,179
2014	88,229,274	4,039,977	6,071,454	11,805,405	309,924	86,225,376	80,612,110
2013	82,519,260	3,942,119	13,835,458	11,762,538	305,025	88,229,274	80,647,479
2012	82,304,757	3,651,961	8,865,286	12,004,973	297,771	82,519,260	81,384,100
2011	89,220,278	3,556,900	1,516,875	11,715,686	273,610	82,304,757	91,841,977
2010	89,918,019	2,961,780	9,187,530	12,567,902	279,149	89,220,278	102,602,580
2009	92,869,795	4,248,121	5,146,934	12,030,107	316,724	89,918,019	107,901,622
2008	128,329,061	4,918,127	(28,738,463)	11,364,182	274,748	92,869,795	111,443,754
2007	128,034,557	4,271,053	7,054,791	10,755,590	275,750	128,329,061	124,708,399
2006	120,587,669	3,016,400	14,900,190	10,189,387	280,315	128,034,557	118,899,595
2005	118,949,769	2,964,018	8,675,894	9,752,891	249,121	120,587,669	116,156,093
2004	114,115,806	3,089,738	11,622,429	9,192,988	685,216	118,949,769	115,920,520

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The McKeogh Company

Iron Workers Local No. 16

**Pension Plan** 

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

Section 4.2
Summary of Plan Assets\*

	As of January 1,									
	4	2017		2016	-	2015		2014		2013
Pooled Funds	\$	26,016,901	\$	28,469,859	\$	28,357,361	\$	20,969,435	\$	23,119,954
Common and Preferred Stocks		14,621,012		19,053,531		21,597,299		22,056,524		16,620,170
Mutual Funds		0		0		0		5,881,837		5,145,232
Limited Partnerships		25,714,689		22,580,414		24,711,179		25,646,415		20,298,383
Corporate Obligations		8,165,489		6,840,983		7,882,902		8,640,367		9,872,017
U.S. Government Agency Obligations		1,024,338		1,205,941		1,003,061		912,062		2,969,740
Short-term Investments		691,685		826,487		950,716		1,479,486		1,241,808
Cash and Cash Equivalents		2,235,070		1,810,030		1,350,143		2,178,119		2,404,015
Fixed Assets		99,139		101,912		104,685		107,458		110,231
Receivables and Prepaid Expenses		523,491		610,749		531,190		494,261		867,982
Accounts Payable and Other Liabilities	_	(126,733)		(204,670)		(263,160)	_	(136,690)	_	(130,272)
Net Assets Available for Benefits	\$	78,965,081	\$	81,295,236	\$	86,225,376	\$	88,229,274	\$	82,519,260

<sup>\*</sup> Per Auditor's Reports

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

Section 4.3

Changes in Assets from Prior Valuation\*

	Plan Year Ending December 31,									
	-	2016		2015	_	2014		2013		2012
Market Value of Assets at Beginning of Year	\$	81,295,236	\$	86,225,376	\$	88,229,274	\$	82,519,260	\$	82,304,757
Income During Year										
Employer contributions Investment income	\$	3,144,697	\$	3,829,054	\$	4,039,977	\$	3,942,119	\$	3,651,961
Interest and dividends Recognized and unrecognized gains (losses) Investment expenses	\$	918,683 5,712,626 (448,853)	\$	927,524 2,899,216 (519,947)	\$	1,025,083 5,562,222 (533,200)	\$	1,139,955 13,160,234 (481,912)	\$	1,255,472 8,091,645 (494,914)
Total net investment income	\$	6,182,456	\$	3,306,793	\$	6,054,105	\$	13,818,277	\$	8,852,203
Other Income	\$	101,130	\$	12,424	\$	17,349	\$	17,181	\$	13,083
Total Income  Disbursements	\$	9,428,283	\$	7,148,271	\$	10,111,431	\$	17,777,577	\$	12,517,247
Benefits Administrative Expenses Other	\$	11,335,394 423,044 0	\$	11,662,166 416,245 0	\$	11,805,405 309,924 0	\$	11,762,538 305,025 0	\$	12,004,973 297,771 0
Total Disbursements	\$	11,758,438	\$	12,078,411	\$	12,115,329	\$	12,067,563	\$	12,302,744
Market Value of Assets at End of Year	\$	78,965,081	\$	81,295,236	\$	86,225,376	\$	88,229,274	\$	82,519,260
* Per Auditor's Reports										

The McKeogh Company

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 4.4

#### **Development of Actuarial Value of Assets**

1.	Market Value of	Market Value of Assets as of January 1, 2016								
2.	Contributions dur	\$	3,144,697							
3.	Disbursements du	Disbursements during year								
4.	Expected investm per annum, net of		\$	5,394,901						
5.	Expected Market	Value of Assets as	s of December 31	, 201	6	\$	78,076,396			
6.	Actual Market Va	alue of Assets as o	f December 31, 2	016		\$	78,965,081			
7.	Gain/(Loss) durin	ng year				\$	888,685			
8.	Unrecognized Pri	or Gain/(Loss)								
	Year Ending December 31	Original Gain/(Loss)	Unrecognized Percentage		nrecognized Amount					
	2016	\$ 888,685	80%	\$	710,948					
	2015 2014	(2,433,466) 172,471	60% 40%	\$	(1,460,080) 68,988					
	2014	8,337,919	20%	\$	1,667,584					
	Total	0,557,717	2070	Ψ	1,007,304	\$	987,440			
9.	Preliminary Actual = (6) - (8)	arial Value of Asso	ets as of January	1, 20	17	\$	77,977,641			
10.		of Assets as of January than 120% of (6)		% of	(6)	\$	77,977,641			
11.	Actuarial Value o		98.7%							

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

### Section 4.5 **Investment Rates of Return**

		Plan Y	ear	Ending Decen	ber	31,		
	2016	 2015		2014		2013	_	2012
Market Value of Assets								
Market Value as of Beginning of Year	\$ 81,295,236	\$ 86,225,376	\$	88,229,274	\$	82,519,260	\$	82,304,757
Employer Contributions During Year	\$ 3,144,697	\$ 3,829,054	\$	4,039,977	\$	3,942,119	\$	3,651,961
Disbursements During Year	\$ 11,758,438	\$ 12,078,411	\$	12,115,329	\$	12,067,563	\$	12,302,744
Market Value as of End of Year	\$ 78,965,081	\$ 81,295,236	\$	86,225,376	\$	88,229,274	\$	82,519,260
Investment Income (Net of Inv. Exp.)	\$ 6,283,586	\$ 3,319,217	\$	6,071,454	\$	13,835,458	\$	8,865,286
Average Value of Assets	\$ 76,988,366	\$ 82,100,698	\$	84,191,598	\$	78,456,538	\$	77,979,366
Rate of Return During Year	8.16%	4.04%		7.21%		17.63%		11.37%
Actuarial Value of Assets								
Actuarial Value as of Beginning of Year	\$ 79,123,179	\$ 80,612,110	\$	80,647,479	\$	81,384,100	\$	91,841,977
Employer Contributions During Year	\$ 3,144,697	\$ 3,829,054	\$	4,039,977	\$	3,942,119	\$	3,651,961
Disbursements During Year	\$ 11,758,438	\$ 12,078,411	\$	12,115,329	\$	12,067,563	\$	12,302,744
Actuarial Value as of End of Year	\$ 77,977,641	\$ 79,123,179	\$	80,612,110	\$	80,647,479	\$	81,384,100
Investment Income (Net of Inv. Exp.)	\$ 7,468,203	\$ 6,760,426	\$	8,039,983	\$	7,388,823	\$	(1,807,094)
Average Value of Assets	\$ 74,816,309	\$ 76,487,432	\$	76,609,803	\$	77,321,378	\$	87,516,586
Rate of Return During Year	9.98%	8.84%		10.49%		9.56%		-2.06%

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

# PART V DEMOGRAPHIC INFORMATION

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

# Section 5.1 Historical Participant Information

January 1	Actives	Terminated w/ Deferred Benefits	Disabled Retirees	All Other Retirees & Beneficiaries	Total	Ratio of Inactives to Actives
2017	189	244	30	603	1,066	464.0%
2016	233	213	34	604	1,084	365.2%
2015	261	191	35	619	1,106	323.8%
2014	278	181	37	623	1,119	302.5%
2013	284	209	34	610	1,137	300,4%
2012	325	181	34	600	1,140	250.8%
2011	351	215	37	599	1,202	242.5%
2010	489	186	38	573	1,286	163.0%
2009	553	187	37	558	1,335	141.4%
2008	505	206	37	548	1,296	156.6%
2007	417	220	37	537	1,211	190.4%
2006	440	208	not available	549	1,197	172.0%
2005	460	148	not available	554	1,162	152.6%

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

Section 5.2

Active Participant Age/Service Distribution as of January 1, 2017

# Age Under 1 1 to 4 5 to 9 10 to 14 15 to 19 20 to 24 25 to 25

Attained Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & Up	Totals
	20-20	2000	15 <del>2</del> 11	0000		1900	n an	11526		10.50	nowe.
Under 25	5	4	0	0	0	0	0	0	0	0	9
25 to 29	0	4	10	2	0	0	0	0	0	0	16
30 to 34	0	14	6	12	0	0	0	0	0	0	32
35 to 39	1	9	9	9	3	0	0	0	0	0	31
40 to 44	1	3	3	5	7	2	0	0	0	0	21
45 to 49	0	4	3	4	8	2	6	0	0	0	27
50 to 54	0	2	3	0	8	2	9	1	0	0	25
55 to 59	0	0	2	1	4	0	11	5	0	0	23
60 to 64	0	0	0	0	0	0	2	2	0	0	4
65 to 69	0	0	0	1	0	0	0	0	0	0	1
70 & Up	0	0 _	0	0	0	0	0	0	0	0	0
Total	7	40	36	34	30	6	28	8	0	0	189

Average Age:

42.1

Average Service:

13.2

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

**Healthy Retirees \*** 

Section 5.3

Inactive Participant Information as of January 1, 2017

**Terminated with Deferred Benefits** 

Age Last Birthday	Count	An	Total nual Benefit		Average ual Benefit	Age Last Birthday	Count	An	Total nual Benefit		verage ual Benefit
						< 55	22	\$	553,677	\$	25,167
< 45	78	\$	858,957	\$	11,012	55 - 59	42		994,137		23,670
45 - 49	23		324,250		14,098	60 - 64	83		1,719,444		20,716
50 - 54	49		720,029		14,694	65 - 69	117		2,409,715		20,596
55 - 59	58		568,394		9,800	70 - 74	98		1,716,233		17,513
60 - 64	27		265,117		9,819	75 - 79	67		1,058,703	90	15,802
> 64	9		95,454		10,606	> 79	80		1,066,394		13,330
Total	244	\$	2,832,201	\$	11,607	Total	509	\$	9,518,303	\$	18,700
		Disa	bled Retirees	ŵ				Be	neficiaries *		
Age Last	52	93	Total		Average	Age Last	500	2%	Total		verage
Birthday	Count	An	nual Benefit	Ann	ual Benefit	Birthday	Count	An	nual Benefit	Ann	ual Benefit
< 55	4	\$	72,828	\$	18,207	< 55	6	\$	23,937	\$	3,990
55 - 59	3		41,232		13,744	55 - 59	8		52,377		6,547
60 - 64	7		126,984		18,141	60 - 64	8		91,420		11,428
65 - 69	4		64,164		16,041	65 - 69	15		144,592		9,639
70 - 74	6		83,388		13,898	70 - 74	20		139,971		6,999
75 - 79	0		0		0	75 - 79	12		72,449		6,037
> 79	6	-	60,202	2	10,034	> 79	25		154,986	8	6,199
		553									

<sup>\*</sup> Does not reflect the 13th check benefit, which totals \$28,342 for disabled retirees, \$590,472 for healthy retirees, and \$67,609 for beneficiaries.

Total

94 \$

Total

30 \$

448,798 \$

14,960

7,231

679,732 \$

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 5.4

#### **Reconciliation of Participants**

	Actives	Terminated With Deferred Benefits	Disabled Participants	Retirees and Beneficiaries	<u>Total</u>
Counts as of January 1, 2016	233	213	34	604	1,084
New Entrants	17	0	0	0	17
Rehired	9	(9)	0	0	0
Terminated without Vesting	(16)	0	0	0	(16)
Terminated with Vesting	(47)	47	0	0	0
Became Disabled	0	0	0	0	0
Retired	(6)	(6)	0	12	0
Died	(1)	(1)	(5)	(19)	(26)
New Beneficiaries	0	0	0	7	7
Certain Period Expiration	0	0	0	(1)	(1)
Data Corrections	0	0	1	0	1
Net Change	(44)	31	(4)	(1)	(18)
Counts as of January 1, 2017	189	244	30	603	1,066

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

# PART VI ACTUARIAL BASIS

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 6.1

#### **Actuarial Methods**

#### **Actuarial Cost Method**

The Actuarial Cost Method for determining the Actuarial Accrued Liability and Normal Cost is the Unit Credit Cost Method and is the same method used in the prior valuation.

In connection with the Plan's then-endangered status, the Trustees applied for and received an automatic 5-year extension of amortization periods pursuant to Section 431(d) of the Internal Revenue Code effective January 1, 2010.

#### **Asset Valuation Method**

The Actuarial Value of Assets (AVA) is determined using an adjusted market value. Under this method, a preliminary AVA is determined as the market value of assets on the valuation date less a decreasing fraction (4/5, 3/5, 2/5, 1/5) of the gain or loss in each of the preceding four years. The gain or loss for a given year is the difference between the actual investment return (on a market-to-market basis) and the assumed investment return based on the market value of assets at the beginning of the year and actual cash flow. The AVA is then the preliminary AVA subject to a minimum and maximum value equal to 20% below and 20% above market value, respectively.

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The McKeogh Company

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 6.2

#### **Actuarial Assumptions**

Interest	Rate (Net	of Investment	Expenses)
----------	-----------	---------------	-----------

For RPA '94 Current Liability 3.05% per year

For All Other Purposes 7.00% per year

Administrative Expenses \$490,000 as of beginning of the year

Mortality -- Healthy lives RP-2014 Blue Collar, sex distinct, with separate rates for annuitants and non-

annuitants

-- Disabled lives RP-2014 Disabled Retiree, sex distinct

-- Mortality improvement Scale MP-2017 for healthy and disabled lives, with projection from 2014

RPA '94 Current Liability Mortality

-- Healthy lives RP-2000 Mortality Tables, with separate rates for annuitants and non-annuitants, as

issued by the IRS for 2017 valuations. Separate tables for males and females.

-- Disabled lives Mortality specified in Revenue Ruling 96-7 for Disabilities occurring post-1994

Retirement Age – Active Participants Age Rate

Age	Rate						
	Less Than 30 Service Credits	30 or More Service Credits					
55	0.15	0.50					
56-59	0.10	0.25					
60-61	0.20	1.00					
62-64	0.25	1.00					
65	1.00	1.00					

Grandfathered Participants are assumed to retire upon completion of 28 years of service.

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 6.2

### Actuarial Assumptions (Continued)

Retirement - Current Terminated Vested Participants	Same as active particip	pants.
Retirement - Future Terminated Vested Participants	Age 60.	
Withdrawal Varying by Age as Illustrated:	Age	Rate
	20	0.0760
	30	0.0441
	40	0.0259
	50	0.0076
Disability Incidence Varying by Age as Illustrated:	Age	Rate
	20	0.0018
	30	0.0033
	40	0.0066
	50	0.0182
Future Benefit Accruals	date (if there are no hor	on the average of the two years of hours prior to the valuation urs in the second year preceding the valuation date, then the on the prior year hours only), multiplied by the accrual rate.
Form of Payment	Form of payment assur	ned election rates for all participants as follows:
	50% J&S with pop-up	
	100% J&S	0.30
	10 Year Certain and C	Continuous 0.20
	Straight Life Annuity	0.35
Percentage Married	50%	
Spouse Age	Spouses of male/female	e Participants 3 years younger/older than the Participant.

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### PART VII

SUMMARY OF PLAN PROVISIONS AND CONTRIBUTION RATES

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 7.1

#### **Plan Provisions**

The following is a brief summary of principal plan provisions as in effect on the valuation date, unless specified. Plan provisions which apply infrequently or to a limited group of participants may be omitted from this summary. The plan document will govern if there is any discrepancy with this summary.

**Effective Date** July 19, 1960; amended and restated effective January 1, 2015. Most recent amendment effective January 1, 2016. Participation A person initially becomes an Active Participant on the earliest January 1 or July 1 following completion of 1,000 Hours of Service in Covered Employment during a twelve consecutive month period. **Definitions** Plan Year Twelve-month period ending December 31. Covered Employment Employment with an Employer who has agreed to contribute to the Fund for the Employee under a collective bargaining agreement. Hours worked in Covered Employment or other hours on behalf of which contributions are required to be made to the Hour of Service Fund. Vesting Service One year for each Plan Year in which the Participant earns 1,000 or more Hours of Service. Normal Retirement Date The date the Participant attains age 65, or if later the fifth anniversary of plan participation.

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 7.1

### Plan Provisions (Continued)

Service Credits

Service Credits are based on Hours of Service in Covered Employment during a Plan Year, according to the following schedules:

			Hours of Service		
Service Credits	Apr. 1, 1960 – Dec. 31, 1992	Jan. 1, 1993 – Dec. 31, 2007	Jan. 1, 2008 – Dec. 31, 2010	Jan. 1, 2011 – Dec. 31, 2014	Jan. 1, 2015 and later
0.00	Less than 500	Less than 262.50	Less than 300	Less than 500	Less than 400
0.25	500 - 699	262.50 - 524.25	300 - 599	500 - 699	400 - 799
0.50	700 - 999	524.50 - 787.25	600 - 899	700 - 999	800 - 1,199
0.75	1,000 - 1,399	787.50 - 1,049.25	900 - 1,199	1,000 - 1,399	1,200 - 1,599
1.00	1,400 or more	1,050 or more	1,200 or more	1,400 or more	1,600 or more

Hours Bank

A Participant's Hours of Service in excess of 1,600 in a Plan Year earned on or after April 1, 1960 will be credited to the Participant's Hours Bank. A Participant's Hours Bank will be limited to a maximum of 3,500 hours (2,800 hours prior to January 1, 1998).

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 7.1

### Plan Provisions (Continued)

Accrued Monthly Pension

For active participants who retire on and after June 1, 2012, the Participant's Service Credits in each period listed below, times the applicable accrual rates listed below:

	Accrual Rates	
Service Period	Service Credits up to 25	Service Credits in excess of 25
Prior to January 1, 2006	87.00	116.00
January 1, 2006 to December 31, 2010	94.00	125.33
January 1, 2011 to May 31, 2012	94.00	94.00
June 1, 2012 to December 31, 2014	88.50	88.50
After January 1, 2015	50.00	50.00

For participants with at least one quarter Service Credit during 2007 or one full Service Credit on or after January 1, 2008 and prior to June 1, 2012 who retire on or after January 1, 2008 and prior to June 1, 2012, the Participant's Service Credits in each period listed below, times the applicable accrual rates listed below:

	Accrual Rates	
Service Period	Service Credits up to 25	Service Credits in excess of 25
Prior to January 1, 2006	90.00	120.00
January 1, 2006 to December 31, 2010	94.00	125.33
January 1, 2011 to May 31, 2012	94.00	94.00

For Participants who did not earn at least one quarter Service Credit after December 31, 2007, different formulas apply.

The McKeogh Company

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 7.1

### Plan Provisions (Continued)

#### **Eligibility for Benefits**

Normal Pension Retirement on or after NRD. Retirement prior to NRD but after attaining age 55 and earning 10 or more Service Credits. Early Retirement Pension Service Pension Retirement prior to June 1, 2012: Completion of 25 Service Credits if the participant earned at least one Service Credit prior to September 1, 2004. Completion of 30 or more Service Credits and attainment of age 50 for all other participants. Retirement after June 1, 2012: Completion of 30 or more Service Credits and attainment of age 55. If the participant earned at least 25 Service Credits prior to June 1, 2012 (Grandfathered Participant), eligibility determined as described above. Disability Pension The Disability Pension was eliminated for Participants that become totally and permanently disabled on or after January 1, 2014. For onsets prior to January 1, 2014, eligibility was based on fifteen or more Service Credits as well as certain hours and age requirements. Deferred Pension Termination of Covered Employment for reasons other than death or retirement after completing 5 or more years of Vesting Service. Hours Bank At retirement, a Participant may use the Hours Bank to provide full or partial Service Credit for a year in which the Participant did not work sufficient hours to earn one Service Credit in that year. Specific rules and procedures exist in order to calculate such additional Service Credits. Preretirement Surviving Participant dies after completing 5 or more years of Vesting Service and leaves a surviving spouse to Spouse Benefit whom the Participant was married for at least one year at the time of the Participant's death. Participant dies prior to termination and retirement. Available only if the Preretirement Surviving Spouse benefit is not Preretirement Lump Sum Death Benefit payable or has been waived. Pop-Up Benefit Married Participant who retires after January 1, 1996 with a 50% Joint and Survivor Annuity and who is predeceased by his/her spouse.

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The McKeogh Company

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 7.1

#### Plan Provisions (Continued)

#### **Benefits Paid Upon the Following Events**

Normal Pension

Accrued Monthly Pension as of NRD.

Accrued Monthly Pension as of early retirement date, reduced by 6 2/3% for each year that commencement precedes the Participant's NRD.

Service Pension

Accrued Monthly Pension as of normal retirement date, reduced by 6% per year that retirement precedes age 60. For retirements occurring between January 1, 2014 and June 30, 2014, the 6% per year early retirement reduction applied starting at age 57. Grandfathered Participants (i.e., those who have completed at least 25 Service Credits as of June 1, 2012) will be reduced 2% per year prior to age 60, with a maximum reduction of 10%.

Accrued Monthly Pension payable at NRD. A vested participant with at least 10 years of Service Credit may elect to have benefits commence as early as age 55. The benefit shall be reduced by 6 2/3% per year for each year that commencement precedes NRD.

Preretirement Surviving Spouse Benefit

Deferred Pension

Spouse receives a lifetime monthly pension equal to 50% of the benefit that would be payable if the Participant separated from service on the date of death (or separation from service, if earlier), survived to the earliest retirement age, retired with an immediate qualified joint and survivor annuity, and died on the day after the earliest retirement age. Instead of the benefit described above, the surviving spouse may elect to receive the Preretirement Lump Sum Death Benefit.

Preretirement Lump Sum Death Benefit For participants with at least 10 years of Service Credit, \$300 times Service Credits earned on and after April 1, 1960, maximum of \$7,500. Payment shall be made in a single lump sum or in 60 equal monthly installments, at the option of the beneficiary. For all other participants, \$2,500 payable in single lump sum.

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Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 7.1

### Plan Provisions (Continued)

Pop-Up Benefit

The pension amount will be increased to the amount that would have been payable in the single life annuity form of pension. This benefit is available for participants who commence on or after January 1, 1996 and elect the Joint and 50% Survivor Option.

Normal and Optional Forms of Payment The basic pension benefits described above are payable as a single life annuity (single life annuity with 60 monthly payments guaranteed, for those retiring prior to June 1, 2012). Married employees receive a benefit which is the basic benefit actuarially reduced to provide the spouse with a 50% contingent annuity benefit.

Prior to June 1, 2012, certain participants could elect a lump sum payment with respect to the portion of the benefit attributable to Service Credits over 25 years.

Other optional forms of payment are: Joint and 50%, 75% or 100% to Survivor, and life with 60, 120 or 180 monthly payments guaranteed. Married participants must have spousal consent to elect a form of payment other than the Joint and 50% to Surviving Spouse form.

#### Other Benefits

Postretirement Death Benefit At the death of a Participant receiving a pension benefit who dies prior to January 1, 2016, a single sum death benefit shall be paid to the named beneficiary in an amount equal to \$1,500. This benefit has been eliminated for deaths occurring on or after January 1, 2016.

13th Check

Pensioners on the rolls at December 31, 2007 shall be entitled to one additional monthly payment in January of each year equal to the pensioner's current monthly pension payment, with a minimum of \$1,000. Participants who retired between January 1, 2008 and December 31, 2009 were entitled to one additional monthly payment (without the \$1,000 minimum) in January of each year with the last such payment made in January 2013. Participants who retired after December 31, 2009 are not eligible for this benefit. Beneficiaries of participants who retired before January 1, 2010 are also eligible for the 13<sup>th</sup> check, equal to the beneficiary's monthly pension payment (with a minimum of \$1,000 if the deceased pensioner retired prior to January 1, 2008).

**Changes from Prior Year** 

There were no changes to the plan of benefits since the prior valuation.

The McKeogh Company

Exhibit 7.10b (Checklist Item #41) 2017 Actuarial Valuation

#### Section 7.2

#### **Contribution Rates**

#### Contributions

Employers make contributions to fund the plan in accordance with the terms of several collective bargaining agreements. Employee contributions are neither required nor permitted. Recent hourly contribution rates are as follows:

<u>Period</u>	Hourly Rate	<u>Period</u>	Hourly Rate
5/1/2005 - 4/30/2006	\$3.84	4/1/2011 - 3/31/2012	\$7.20
5/1/2006 - 4/30/2007	\$4.24	4/1/2012 - 3/31/2013	\$8.20
5/1/2007 - 4/30/2008	\$4.34	4/1/2013 - 5/31/2014	\$8.70
5/1/2008 - 4/8/2009	\$4.80	6/1/2014 - 3/31/2015	\$9.20
4/9/2009 - 3/31/2010	\$5.70	4/1/2015 & later	\$9.70
4/1/2010 - 3/31/2011	\$6.70		