

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-Q

(Mark One)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended March 31, 2022

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from ____ to ____

Commission File Number: 001-37557

Penumbra, Inc.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of
incorporation or organization)

05-0605598

(I.R.S. Employer
Identification No.)

One Penumbra Place

Alameda, CA 94502

(Address of principal executive offices, including zip code)

(510) 748-3200

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of each class</u>	<u>Trading Symbol</u>	<u>Name of each exchange on which registered</u>
Common Stock, Par value \$0.001 per share	PEN	The New York Stock Exchange

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes: No:

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes: No:

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
Emerging growth company	<input type="checkbox"/>		

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes: No:

As of April 19, 2022, the registrant had 37,677,637 shares of common stock, par value \$0.001 per share, outstanding.

FORM 10-Q
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PART I - FINANCIAL INFORMATION
ITEM 1. CONDENSED CONSOLIDATED FINANCIAL STATEMENTS.

Penumbra, Inc.
Condensed Consolidated Balance Sheets
(unaudited)
(in thousands)

	March 31, 2022	December 31, 2021
Assets		
Current assets:		
Cash and cash equivalents	\$ 68,163	\$ 59,379
Marketable investments	172,178	195,496
Accounts receivable, net of allowance for credit losses of \$759 and \$2,092 at March 31, 2022 and December 31, 2021, respectively	143,417	133,940
Inventories	274,349	263,504
Prepaid expenses and other current assets	32,219	29,155
Total current assets	690,326	681,474
Property and equipment, net	60,327	58,856
Operating lease right-of-use assets	176,892	131,955
Finance lease right-of-use assets	35,550	36,276
Intangible assets, net	88,472	90,618
Goodwill	166,232	166,388
Deferred taxes	70,080	65,698
Other non-current assets	13,694	12,985
Total assets	<u>\$ 1,301,573</u>	<u>\$ 1,244,250</u>
Liabilities and Stockholders' Equity		
Current liabilities:		
Accounts payable	\$ 14,137	\$ 13,421
Accrued liabilities	105,533	99,796
Current operating lease liabilities	8,660	8,267
Current finance lease liabilities	1,769	1,713
Total current liabilities	130,099	123,197
Non-current operating lease liabilities	182,438	137,045
Non-current finance lease liabilities	26,122	26,523
Other non-current liabilities	3,612	3,558
Total liabilities	342,271	290,323
Commitments and contingencies (Note 10)		
Stockholders' equity:		
Common stock	38	37
Additional paid-in capital	919,251	910,614
Accumulated other comprehensive (loss) income	(5,972)	(2,630)
Retained earnings	45,985	45,906
Total stockholders' equity	959,302	953,927
Total liabilities and stockholders' equity	<u>\$ 1,301,573</u>	<u>\$ 1,244,250</u>

See accompanying notes to the unaudited condensed consolidated financial statements

Penumbra, Inc.
Condensed Consolidated Statements of Operations
(unaudited)
(in thousands, except share and per share amounts)

	Three Months Ended March 31,	
	2022	2021
Revenue	\$ 203,895	\$ 169,204
Cost of revenue	76,477	57,867
Gross profit	127,418	111,337
Operating expenses:		
Research and development	20,564	18,076
Sales, general and administrative	110,900	79,798
Total operating expenses	131,464	97,874
(Loss) income from operations	(4,046)	13,463
Interest (expense) income, net	(47)	480
Other expense, net	(1,011)	(1,476)
(Loss) income before income taxes	(5,104)	12,467
(Benefit from) provision for income taxes	(5,183)	1,541
Consolidated net income	\$ 79	\$ 10,926
Net loss attributable to non-controlling interest	—	(910)
Net income attributable to Penumbra, Inc.	\$ 79	\$ 11,836
Net income attributable to Penumbra, Inc. per share:		
Basic	\$ 0.00	\$ 0.32
Diluted	\$ 0.00	\$ 0.32
Weighted average shares outstanding:		
Basic	37,646,122	36,455,712
Diluted	38,708,657	37,533,520

See accompanying notes to the unaudited condensed consolidated financial statements

Penumbra, Inc.
Condensed Consolidated Statements of Comprehensive (Loss) Income
(unaudited)
(in thousands)

	Three Months Ended March 31,	
	2022	2021
Consolidated net income	\$ 79	\$ 10,926
Other comprehensive loss, net of tax:		
Foreign currency translation adjustments, net of tax	(868)	(2,695)
Net change in unrealized losses on available-for-sale securities, net of tax	(2,474)	(271)
Total other comprehensive loss, net of tax	(3,342)	(2,966)
Consolidated comprehensive (loss) income	\$ (3,263)	\$ 7,960
Net loss attributable to non-controlling interest	—	(910)
Comprehensive (loss) income attributable to Penumbra, Inc.	\$ (3,263)	\$ 8,870

See accompanying notes to the unaudited condensed consolidated financial statements

Penumbra, Inc.
Condensed Consolidated Statements of Stockholders' Equity
(unaudited)
(in thousands, except share amounts)

	Common Stock		Additional Paid-in Capital	Accumulated Other Comprehensive (Loss) Income	Retained Earnings	Total Penumbra, Inc. Stockholders' Equity	Non-Controlling Interest	Total Stockholders' Equity
	Shares	Amount						
Balance at December 31, 2021	37,578,483	\$ 37	\$ 910,614	\$ (2,630)	\$ 45,906	\$ 953,927	\$ —	\$ 953,927
Issuance of common stock	103,984	1	1,102	—	—	1,103	—	1,103
Shares held for tax withholdings	(14,243)	—	(3,181)	—	—	(3,181)	—	(3,181)
Stock-based compensation	—	—	10,716	—	—	10,716	—	10,716
Other comprehensive loss	—	—	—	(3,342)	—	(3,342)	—	(3,342)
Net income (loss)	—	—	—	—	79	79	—	79
Balance at March 31, 2022	<u>37,668,224</u>	<u>\$ 38</u>	<u>\$ 919,251</u>	<u>\$ (5,972)</u>	<u>\$ 45,985</u>	<u>\$ 959,302</u>	<u>\$ —</u>	<u>\$ 959,302</u>

Penumbra, Inc.
Condensed Consolidated Statements of Stockholders' Equity
(unaudited)
(in thousands, except share amounts)

	Common Stock		Additional Paid-in Capital	Accumulated Other Comprehensive Loss	Retained Earnings	Total Penumbra, Inc. Stockholders' Equity	Non-Controlling Interest	Total Stockholders' Equity
	Shares	Amount						
Balance at December 31, 2020	36,414,732	\$ 36	\$ 598,299	\$ 2,541	\$ 40,622	\$ 641,498	\$ (3,710)	\$ 637,788
Issuance of common stock	79,080	—	666	—	—	666	—	666
Shares held for tax withholdings	(11,955)	—	(3,036)	—	—	(3,036)	—	(3,036)
Stock-based compensation	—	—	7,093	—	—	7,093	—	7,093
Other comprehensive loss	—	—	—	(2,966)	—	(2,966)	—	(2,966)
Net income	—	—	—	—	11,836	11,836	(910)	10,926
Balance at March 31, 2021	<u>36,481,857</u>	<u>\$ 36</u>	<u>\$ 603,022</u>	<u>\$ (425)</u>	<u>\$ 52,458</u>	<u>\$ 655,091</u>	<u>\$ (4,620)</u>	<u>\$ 650,471</u>

See accompanying notes to the unaudited condensed consolidated financial statements

Penumbra, Inc.
Condensed Consolidated Statements of Cash Flows
(unaudited)
(in thousands)

	Three Months Ended March 31,	
	2022	2021
CASH FLOWS FROM OPERATING ACTIVITIES:		
Consolidated net income	\$ 79	\$ 10,926
Adjustments to reconcile consolidated net income to net cash used in operating activities:		
Depreciation and amortization	5,726	3,471
Stock-based compensation	8,893	6,395
Inventory write-downs	593	991
Deferred taxes	(4,378)	1,223
Other	(1,012)	886
Changes in operating assets and liabilities:		
Accounts receivable	(8,710)	(12,943)
Inventories	(11,764)	(31,608)
Prepaid expenses and other current and non-current assets	(3,809)	(3,463)
Accounts payable	1,389	1,272
Accrued expenses and other non-current liabilities	8,249	8,482
Proceeds from lease incentives	230	—
Net cash used in operating activities	<u>(4,514)</u>	<u>(14,368)</u>
CASH FLOWS FROM INVESTING ACTIVITIES:		
Purchases of marketable investments	—	(12,266)
Proceeds from maturities of marketable investments	20,668	19,497
Purchases of property and equipment	(4,957)	(3,991)
Other	—	(150)
Net cash provided by investing activities	<u>15,711</u>	<u>3,090</u>
CASH FLOWS FROM FINANCING ACTIVITIES:		
Proceeds from exercises of stock options	1,102	666
Payment of employee taxes related to vested stock	(3,181)	(3,036)
Payments of finance lease obligations	(425)	(337)
Other	(137)	93
Net cash used in financing activities	<u>(2,641)</u>	<u>(2,614)</u>
Effect of foreign exchange rate changes on cash and cash equivalents	228	(146)
NET INCREASE (DECREASE) IN CASH AND CASH EQUIVALENTS	8,784	(14,038)
CASH AND CASH EQUIVALENTS—Beginning of period	59,379	69,670
CASH AND CASH EQUIVALENTS—End of period	<u>\$ 68,163</u>	<u>\$ 55,632</u>
NONCASH INVESTING AND FINANCING ACTIVITIES:		
Right-of-use assets obtained in exchange for operating lease obligations	\$ 47,678	\$ 803
Right-of-use assets obtained in exchange for finance lease obligations	\$ 81	\$ 428
Purchase of property and equipment funded through accounts payable and accrued liabilities	\$ 1,626	\$ 2,184
SUPPLEMENTAL CASH FLOW INFORMATION:		
Cash paid for income taxes	\$ 1,798	\$ 132

See accompanying notes to the unaudited condensed consolidated financial statements

Penumbra, Inc.
Notes to Condensed Consolidated Financial Statements
(unaudited)

1. Organization and Description of Business

Penumbra, Inc. (the “Company”) is a global healthcare company focused on innovative therapies. The Company designs, develops, manufactures and markets novel products and has a broad portfolio that addresses challenging medical conditions in markets with significant unmet need. The Company focuses on developing, manufacturing and marketing novel products for use by specialist physicians and other healthcare providers to drive improved clinical and health outcomes. The Company believes that the cost-effectiveness of our products is attractive to our customers.

2. Summary of Significant Accounting Policies

Basis of Presentation and Consolidation

The accompanying condensed consolidated balance sheet as of March 31, 2022, the condensed consolidated statements of operations, the condensed consolidated statements of comprehensive (loss) income, and the condensed consolidated statements of stockholders’ equity for the three months ended March 31, 2022 and 2021, and the condensed consolidated statements of cash flows for the three months ended March 31, 2022 and 2021 are unaudited. The unaudited condensed consolidated financial statements included herein have been prepared by the Company in accordance with accounting principles generally accepted in the United States of America (“U.S. GAAP”) and the applicable rules and regulations of the U.S. Securities and Exchange Commission (the “SEC”) for interim financial information. Accordingly, they do not include all of the information and notes required by U.S. GAAP for complete financial statements. The condensed consolidated balance sheet data as of December 31, 2021 was derived from the audited financial statements as of that date.

The unaudited condensed consolidated financial statements have been prepared on the same basis as the audited consolidated financial statements and, in the opinion of management, reflect all adjustments of a normal recurring nature considered necessary to state fairly the Company’s financial position as of March 31, 2022, the results of its operations for the three months ended March 31, 2022 and 2021, the changes in comprehensive income (loss) and stockholders’ equity for the three months ended March 31, 2022 and 2021, and the cash flows for the three months ended March 31, 2022 and 2021. The results for the three months ended March 31, 2022 are not necessarily indicative of the results that may be expected for the year ending December 31, 2022 or for any other future annual or interim period.

The information included in this Quarterly Report on Form 10-Q should be read in conjunction with the audited consolidated financial statements and notes thereto for the year ended December 31, 2021, included in the Company’s Annual Report on Form 10-K. There have been no changes to the Company’s significant accounting policies during the three months ended March 31, 2022, as compared to the significant accounting policies described in the Company’s Annual Report on Form 10-K for the fiscal year ended December 31, 2021.

The condensed consolidated financial statements include the accounts of the Company and its wholly-owned subsidiaries. All intercompany balances and transactions have been eliminated in consolidation.

Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities and equity accounts; disclosure of contingent assets and liabilities at the date of the financial statements; and the reported amounts of revenues and expenses during the reporting period. On an ongoing basis, the Company evaluates its estimates, including those related to marketable investments, allowances for credit losses, the amount of variable consideration included in the transaction price, warranty reserve, valuation of inventories, useful lives of property and equipment, operating and financing lease right-of-use (“ROU”) assets and liabilities, income taxes, contingent consideration and other contingencies, among others. The Company bases its estimates on historical experience and on various other assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other data. Actual results could differ from those estimates.

Segments

The Company determined its operating segment on the same basis that it uses to evaluate its performance internally. The Company has one business activity: the design, development, manufacturing and marketing of innovative medical products, and operates as one operating segment. The Company’s chief operating decision-maker, its Chief Executive Officer, reviews its consolidated operating results for the purpose of allocating resources and evaluating financial performance.

Penumbra, Inc.
Notes to Condensed Consolidated Financial Statements
(unaudited)

3. Investments and Fair Value of Financial Instruments
Marketable Investments

The Company's marketable investments have been classified and accounted for as available-for-sale. The following table presents the Company's marketable investments as of March 31, 2022 and December 31, 2021 (in thousands):

	March 31, 2022				
	Securities with net gains or losses in accumulated other comprehensive income (loss)				Fair Value
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Allowance for Credit Loss	
Commercial paper	\$ 9,993	\$ —	\$ (33)	\$ —	\$ 9,960
U.S. treasury	14,468	—	(392)	—	14,076
U.S. agency and government sponsored securities	11,552	—	(153)	—	11,399
U.S. states and municipalities	39,347	9	(510)	—	38,846
Corporate bonds	99,886	3	(1,992)	—	97,897
Total	<u>\$ 175,246</u>	<u>\$ 12</u>	<u>\$ (3,080)</u>	<u>\$ —</u>	<u>\$ 172,178</u>

	December 31, 2021				
	Securities with net gains or losses in accumulated other comprehensive income (loss)				Fair Value
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Allowance for Credit Loss	
Commercial paper	\$ 20,286	\$ —	\$ (10)	\$ —	\$ 20,276
U.S. treasury	14,464	—	(77)	—	14,387
U.S. agency and government sponsored securities	11,553	1	(19)	—	11,535
U.S. states and municipalities	39,436	39	(89)	—	39,386
Corporate bonds	110,354	49	(491)	—	109,912
Total	<u>\$ 196,093</u>	<u>\$ 89</u>	<u>\$ (686)</u>	<u>\$ —</u>	<u>\$ 195,496</u>

As of March 31, 2022, the total amortized cost basis of the Company's impaired available-for-sale securities exceeded its fair value by \$3.1 million, which was primarily attributable to widening credit spreads and rising interest rates since purchase. The Company reviewed its impaired available-for-sale securities and concluded that the decline in fair value was not related to credit losses and that it is more likely than not that the entire amortized cost of each impaired security will be recoverable before the Company is required to sell them. Accordingly, during the three months ended March 31, 2022, no allowance for credit losses was recorded and instead the unrealized losses are reported as a component of accumulated other comprehensive (loss) income.

Penumbra, Inc.
Notes to Condensed Consolidated Financial Statements
(unaudited)

The following tables present the gross unrealized losses and the fair value for those marketable investments that were in an unrealized loss position for less than twelve months or for twelve months or more as of March 31, 2022 and December 31, 2021 (in thousands):

	March 31, 2022					
	Less than 12 months		12 months or more		Total	
	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
Commercial paper	\$ 9,960	\$ (33)	\$ —	\$ —	\$ 9,960	\$ (33)
U.S. treasury	14,076	(392)	—	—	14,076	(392)
U.S. agency and government sponsored securities	11,399	(153)	—	—	11,399	(153)
U.S. states and municipalities	34,657	(510)	—	—	34,657	(510)
Corporate bonds	91,774	(1,893)	2,116	(99)	93,890	(1,992)
Total	<u>\$ 161,866</u>	<u>\$ (2,981)</u>	<u>\$ 2,116</u>	<u>\$ (99)</u>	<u>\$ 163,982</u>	<u>\$ (3,080)</u>

	December 31, 2021					
	Less than 12 months		12 months or more		Total	
	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
Commercial paper	\$ 16,977	\$ (10)	\$ —	\$ —	\$ 16,977	\$ (10)
U.S. treasury	14,387	(77)	—	—	14,387	(77)
U.S. agency and government sponsored securities	6,985	(19)	—	—	6,985	(19)
U.S. states and municipalities	21,924	(89)	—	—	21,924	(89)
Corporate bonds	85,513	(491)	—	—	85,513	(491)
Total	<u>\$ 145,786</u>	<u>\$ (686)</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 145,786</u>	<u>\$ (686)</u>

The following table presents the contractual maturities of the Company's marketable investments as of March 31, 2022 (in thousands):

	March 31, 2022	
	Amortized Cost	Fair Value
Due in less than one year	\$ 61,123	\$ 60,878
Due in one to five years	114,123	111,300
Total	<u>\$ 175,246</u>	<u>\$ 172,178</u>

Fair Value of Financial Instruments

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability (an exit price) in an orderly transaction between market participants at the measurement date. The accounting guidance establishes a three-tiered hierarchy, which prioritizes the inputs used in the valuation methodologies in measuring fair value:

Level 1 - Quoted prices in active markets for identical assets or liabilities.

Level 2 - Inputs other than Level 1 that are observable, either directly or indirectly, such as quoted prices in markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 - Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities.

The categorization of a financial instrument within the valuation hierarchy is based on the lowest level of input that is significant to the fair value measurement.

Penumbra, Inc.
Notes to Condensed Consolidated Financial Statements
(unaudited)

The Company classifies its cash equivalents and marketable investments within Level 1 and Level 2, as it uses quoted market prices or alternative pricing sources and models utilizing market observable inputs.

The Company determined the fair value of its Level 1 financial instruments, which are traded in active markets, using quoted market prices for identical instruments.

Marketable investments classified within Level 2 of the fair value hierarchy are valued based on other observable inputs, including broker or dealer quotations or alternative pricing sources. When quoted prices in active markets for identical assets or liabilities are not available, the Company relies on non-binding quotes from its investment managers, which are based on proprietary valuation models of independent pricing services. These models generally use inputs such as observable market data, quoted market prices for similar instruments, historical pricing trends of a security as relative to its peers. To validate the fair value determination provided by its investment managers, the Company reviews the pricing movement in the context of overall market trends and trading information from its investment managers. In addition, the Company assesses the inputs and methods used in determining the fair value in order to determine the classification of securities in the fair value hierarchy.

The Company did not hold any Level 3 marketable investments as of March 31, 2022 or December 31, 2021. During the three months ended March 31, 2022 and 2021, the Company did not have any transfers between Level 1, Level 2 or Level 3 of the fair value hierarchy. Additionally, the Company did not have any financial assets and liabilities measured at fair value on a non-recurring basis as of March 31, 2022 or December 31, 2021.

The following tables set forth the Company's financial assets measured at fair value by level within the fair value hierarchy as of March 31, 2022 and December 31, 2021 (in thousands):

	As of March 31, 2022			
	Level 1	Level 2	Level 3	Fair Value
Financial Assets				
Cash equivalents:				
Money market funds	\$ 22,284	\$ —	\$ —	\$ 22,284
Marketable investments:				
Commercial paper	—	9,960	—	9,960
U.S. treasury	14,076	—	—	14,076
U.S. agency and government sponsored securities	—	11,399	—	11,399
U.S. states and municipalities	—	38,846	—	38,846
Corporate bonds	—	97,897	—	97,897
Total	\$ 36,360	\$ 158,102	\$ —	\$ 194,462

	As of December 31, 2021			
	Level 1	Level 2	Level 3	Fair Value
Financial Assets				
Cash equivalents:				
Money market funds	\$ 10,509	\$ —	\$ —	\$ 10,509
Marketable investments:				
Commercial paper	—	20,276	—	20,276
U.S. treasury	14,387	—	—	14,387
U.S. agency and government sponsored securities	—	11,535	—	11,535
U.S. states and municipalities	—	39,386	—	39,386
Corporate bonds	—	109,912	—	109,912
Total	\$ 24,896	\$ 181,109	\$ —	\$ 206,005

Penumbra, Inc.
Notes to Condensed Consolidated Financial Statements
(unaudited)

4. Balance Sheet Components**Inventories**

The following table shows the components of inventories as of March 31, 2022 and December 31, 2021 (in thousands):

	March 31, 2022	December 31, 2021
Raw materials	\$ 73,220	\$ 68,374
Work in process	6,838	18,678
Finished goods	194,291	176,452
Inventories	<u>\$ 274,349</u>	<u>\$ 263,504</u>

Accrued Liabilities

The following table shows the components of accrued liabilities as of March 31, 2022 and December 31, 2021 (in thousands):

	March 31, 2022	December 31, 2021
Payroll and employee-related cost	\$ 63,268	\$ 60,015
Accrued expenses	13,053	12,245
Deferred revenue	7,792	5,671
Other accrued liabilities	21,420	21,865
Total accrued liabilities	<u>\$ 105,533</u>	<u>\$ 99,796</u>

The following table shows the changes in the Company's estimated product warranty accrual, included in accrued liabilities, for the three months ended March 31, 2022 and December 31, 2021 (in thousands):

	March 31, 2022	December 31, 2021
Balance at the beginning of the period	\$ 4,310	\$ 2,896
Accruals of warranties issued	753	2,973
Settlements of warranty claims	(386)	(1,559)
Balance at the end of the period	<u>\$ 4,677</u>	<u>\$ 4,310</u>

5. Business Combinations**Acquisition of Sixense Enterprises Inc.***Transaction Overview*

On October 1, 2021 (the "Closing Date"), the Company closed the acquisition of Sixense Enterprises Inc. ("Sixense") pursuant to the Agreement and Plan of Merger, dated September 17, 2021 (the "Merger Agreement"), among the Company, Sixense, Seychelles Merger Corporation, a wholly owned subsidiary of the Company, and a stockholders' agent (the "Merger"). Sixense, a privately held company, specializes in enterprise use of virtual reality hardware and software and has been an integral partner on the development of the Company's REAL Immersive System portfolio. The Merger allows the Company to streamline its efforts and collaborate more closely on its immersive healthcare offerings.

The Company and Sixense formed a joint venture, MVI Health Inc. ("MVI"), in 2017 for the purpose of exploring healthcare applications of virtual reality technology. At the time of MVI's formation, the Company contributed cash and in-kind services to MVI and Sixense contributed an exclusive license to use its technology for healthcare applications, each for a 50% equity interest in MVI. In 2018, the Company acquired 40% of the outstanding shares of MVI from Sixense and consolidated the financial results of MVI into the accompanying consolidated financial statements, with the amounts attributable to the non-controlling interest classified separately. As of the Closing Date, the Company and Sixense owned a 90% and 10% equity interest in MVI, respectively.

As a result of the Merger, Sixense became a wholly owned subsidiary of the Company and the Company acquired, among other things, the remaining 10% equity interest in MVI held by Sixense.

Penumbra, Inc.
Notes to Condensed Consolidated Financial Statements
(unaudited)

The Company accounted for the acquired assets and liabilities assumed from Sixense in accordance with ASC 805 and for its change in ownership interest in MVI as an equity transaction in accordance with ASC 810. The carrying amount of the noncontrolling interest was adjusted to zero, and the difference between the acquisition date fair value of the equity interest acquired of \$4.2 million and its carrying amount of \$(6.2) million was recognized within additional paid in capital.

Fair Value of Consideration Transferred

The following table summarizes the Closing Date fair value of the consideration transferred (in thousands):

Fair value of common stock issued ⁽¹⁾	\$	174,133
Fair value of replacement stock options ⁽²⁾		80,693
Consideration for settlement of pre-existing liabilities due to Sixense ⁽³⁾		(3,810)
Total purchase price	\$	251,016

⁽¹⁾ The fair value of the 661,877 shares of common stock issued as part of consideration transferred was determined based on the acquisition date closing market price of the Company's common stock of \$263.09.

⁽²⁾ Per ASC 805, the replacement of stock options or other share-based payment awards in conjunction with a business combination represents a modification of share-based payment awards that must be accounted for in accordance with ASC 718. As a result of the Company's obligation to issue replacement awards, a portion of the fair-value-based measure of replacement awards is included in measuring the purchase consideration transferred in the business combination. To determine the portion of the replacement awards that is part of the purchase consideration, the Company measured the fair value of both the replacement awards and the historical awards as of the Closing Date, in accordance with ASC 718. The fair value of the replacement awards, whether vested or unvested, was included in the purchase consideration to the extent that pre-acquisition services had been rendered. The fair value of replacement stock options assumed for which pre-acquisition services were rendered of \$80.7 million was allocated to the purchase consideration and \$25.8 million was recognized immediately in the post-combination financial statements during the three months ended December 31, 2021, as pre-acquisition services were not rendered but the vesting of all stock options was accelerated in connection with the Merger.

⁽³⁾ In the connection with the Merger, the Company effectively settled pre-existing liabilities due to or on behalf of Sixense.

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Fair Value of Consideration Transferred

The preliminary allocation of the purchase price was based upon a third party valuation and the Company's estimates and assumptions are subject to change within the measurement period (generally one year from the Closing Date).

The following table presents the preliminary allocation of the purchase price for Sixense as of March 31, 2022 (in thousands):

	<u>Acquisition-Date Fair Value</u>	<u>Estimated Useful Life of Finite-Lived Intangible Assets</u>
Tangible assets acquired and (liabilities) assumed:		
Cash and cash equivalents	\$ 2,919	
Prepaid expenses and other current and non-current assets	2,063	
Deferred tax assets	20,678	
Deferred tax liabilities	(19,398)	
Accrued liabilities and other current liabilities	(1,341)	
Intangible assets acquired:		
Developed technology	62,466	8.75 years
In-process research and development	20,823	
Net assets acquired	<u>88,210</u>	
Fair value of subsidiary stock indirectly acquired through the Merger	<u>4,161</u>	
Total net assets acquired	92,371	
Goodwill	158,645	
Total purchase price	<u><u>\$ 251,016</u></u>	

Further adjustments may be necessary as additional information related to the fair values of assets acquired and liabilities assumed is assessed during the measurement period, which may be up to one year from the acquisition date. The Company will reflect measurement period adjustments, if any, in the period in which the adjustments are recognized with the corresponding offset to goodwill. Any adjustments required after the measurement period are recorded in the consolidated statement of operations. No measurement period adjustments were recorded during the three months ended March 31, 2022.

The intangible assets acquired and the fair value of the privately-held subsidiary stock indirectly acquired are Level 3 fair value measurements for which fair value is derived from valuations using inputs that are unobservable and significant to the overall fair value measurement.

6. Intangible Assets

Acquired Intangible Assets

The following tables present details of the Company's acquired finite-lived intangible assets as of March 31, 2022 and December 31, 2021 (in thousands, except weighted-average amortization period):

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As of March 31, 2022	Weighted-Average Amortization Period	Gross Carrying Amount	Accumulated Amortization	Net
Finite-lived intangible assets:				
Developed technology	8.8 years	\$ 62,466	\$ (3,570)	\$ 58,896
Customer relationships	15.0 years	\$ 6,626	\$ (2,099)	\$ 4,527
Trade secrets and processes	20.0 years	5,256	(1,117)	4,139
Other	5.0 years	1,709	(1,622)	87
Total intangible assets subject to amortization	9.8 years	\$ 76,057	\$ (8,408)	\$ 67,649
Indefinite-lived intangible assets:				
In-process research and development		\$ 20,823	\$ —	\$ 20,823
Total intangible assets		\$ 96,880	\$ (8,408)	\$ 88,472

As of December 31, 2021	Weighted-Average Amortization Period	Gross Carrying Amount	Accumulated Amortization	Net
Finite-lived intangible assets:				
Developed technology	8.8 years	\$ 62,466	\$ (1,784)	\$ 60,682
Customer relationships	15.0 years	\$ 6,762	\$ (2,029)	\$ 4,733
Trade secrets and processes	20.0 years	5,256	(1,051)	4,205
Other	5.0 years	1,744	(1,569)	175
Total intangible assets subject to amortization	9.8 years	\$ 76,228	\$ (6,433)	\$ 69,795
Indefinite-lived intangible assets:				
In-process research and development		20,823	—	20,823
Total intangible assets		\$ 97,051	\$ (6,433)	\$ 90,618

The customer relationships and intangible assets classified as “Other” subject to amortization relate to the acquisition of Crossmed S.p.A., the Company’s wholly-owned subsidiary in Italy, during the third quarter of 2017. The gross carrying amount and accumulated amortization of these intangible assets are subject to foreign currency translation effects.

The Company reviews indefinite-lived intangible assets for impairment annually during the fourth quarter or more frequently if events or circumstances indicate that an impairment loss may have occurred. The Company determined that there were no impairment indicators as of March 31, 2022.

The following table presents the amortization expense recorded related to the Company’s finite-lived intangible assets for the three months ended March 31, 2022 and 2021 (in thousands):

	Three Months Ended March 31,	
	2022	2021
Cost of revenue	\$ 66	\$ 66
Sales, general and administrative	1,982	212
Total	\$ 2,048	\$ 278

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7. Goodwill

The following table presents the changes in goodwill during the three months ended March 31, 2022 (in thousands):

	Total Company
Balance as of December 31, 2021	\$ 166,388
Foreign currency translation	(156)
Balance as of March 31, 2022	\$ 166,232

Goodwill Impairment Review

The Company reviews goodwill for impairment annually during the fourth quarter or more frequently if events or circumstances indicate that an impairment loss may have occurred. The Company determined there were no impairment indicators as of March 31, 2022.

8. Indebtedness**Credit Agreement**

On April 24, 2020, the Company entered into a Credit Agreement (the "Credit Agreement") with JPMorgan Chase Bank, N.A., as administrative agent and lender, and Bank of America, N.A. and Citibank, N.A. as lenders. The Credit Agreement is secured and provides for up to \$100 million in available revolving borrowing capacity with an option, subject to certain conditions, for the Company to increase the aggregate borrowing capacity to up to \$150 million, and was set to mature on April 23, 2021. The Company entered into an amended one-year credit agreement with JPMorgan Chase Bank, N.A., as administrative agent and lender, and Bank of America, N.A. and Citibank, N.A. as lenders during the three months ended March 31, 2021, which extended the maturity date from April 23, 2021 to February 21, 2022 and had substantially the same terms and conditions as the prior credit agreement with certain changes including the exclusion of certain one-time charges and expenses incurred during the fiscal quarters ended September 30, 2020 and December 31, 2020 from the calculation of the financial covenants, reductions in interest rate floors applicable to revolving loans and other changes to borrowing mechanics under the Credit Agreement.

In the first quarter of 2022, the Company entered into a further amended one-year credit agreement with JPMorgan Chase Bank, N.A., as administrative agent and lender, and Bank of America, N.A. and Citibank, N.A. as lenders. The amended Credit Agreement extended the maturity date from February 21, 2022 to February 17, 2023 and has substantially the same terms and conditions as the prior credit agreement with certain changes to the reference benchmark interest rates, applicable margins and borrowing mechanics under the Credit Agreement, having the overall effect of lowering the interest rates payable by the Company on amounts borrowed under the Credit Agreement, and a reduction of the commitment fee payable on the average daily unused amount under the Credit Agreement to 0.25% per annum.

The Credit Agreement requires the Company to maintain a minimum fixed charge coverage ratio and to not exceed a maximum leverage ratio. As of March 31, 2022, the Company was in compliance with these requirements.

As of March 31, 2022 and December 31, 2021, there were no borrowings outstanding under the amended Credit Agreement.

9. Leases**Lease Overview**

As of December 31, 2021 and March 31, 2022, the Company's contracts that contained a lease consisted of real estate, equipment and vehicle leases.

The Company leases real estate for office, research and development, manufacturing, and warehouse space primarily under noncancelable operating leases that expire at various dates through 2036, subject to the Company's option to renew certain leases for an additional five to 15 years. The Company also leases other equipment and vehicles primarily under noncancelable operating leases that expire at various dates through 2035.

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The following table presents the components of the Company's lease cost, lease term and discount rate during the three months ended March 31, 2022 and 2021 (in thousands, except years and percentages):

	Three Months Ended	
	March 31, 2022	March 31, 2021
Lease Cost		
Operating lease cost	\$ 4,882	\$ 1,919
Finance lease cost:		
Amortization of right-of-use assets	805	746
Interest on lease liabilities	362	371
Variable lease cost ⁽¹⁾	2,363	1,469
Total lease costs	\$ 8,412	\$ 4,505
Weighted Average Remaining Lease Term		
Operating leases	14.1 years	8.8 years
Finance leases	12.0 years	13.2 years
Weighted Average Discount Rate		
Operating leases	4.63 %	6.13 %
Finance leases	5.30 %	5.34 %

⁽¹⁾ Variable lease costs represent payments that are dependent on usage, a rate or index. Variable lease cost primarily relates to common area maintenance charges for the Company's real estate leases.

During the third quarter of 2021, the Company signed a lease for approximately thirteen years for additional space located at 620 Roseville Parkway, Roseville, California (the "620 Roseville Parkway Lease"). Per the terms of the lease, improvements will be constructed and permanently affixed to the property in two phases. The first phase ("Phase 1") of the 620 Roseville Parkway Lease commenced once the Phase 1 premises were made ready and available for their intended use, which occurred during the first quarter of 2022. The Company determined that the 620 Roseville Parkway Lease is a non-cancelable operating lease which will expire in 2035. Upon completion of the second phase ("Phase 2") of improvements, the Phase 2 premises will be added to the 620 Roseville Parkway Lease. Phase 2 is not anticipated to be completed in 2022.

Additionally, during the three months ended March 31, 2022, the Company modified existing leases for certain properties that resulted in an increase of right-of-use ("ROU") assets in exchange for operating leases liabilities.

The following table is a schedule, by years, of maturities of the Company's operating and finance lease liabilities as of March 31, 2022 (in thousands):

	Operating Lease Payments	Finance Lease Payments
2022 (excluding the three months ended March 31, 2022)	\$ 12,911	\$ 2,384
2023	17,255	3,223
2024	16,958	3,243
2025	16,676	3,172
2026	16,798	2,803
Thereafter	185,889	23,517
Total undiscounted lease payments	266,487	38,342
Less imputed interest	(75,389)	(10,451)
Present value of lease liabilities	\$ 191,098	\$ 27,891

Penumbra, Inc.
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Supplemental cash flow information related to leases during the three months ended March 31, 2022 and 2021 are as follows (in thousands):

	Three Months Ended	
	March 31, 2022	March 31, 2021
Cash paid for amounts included in the measurement of lease liabilities:		
Operating cash flows from operating leases	\$ 4,266	\$ 1,946
Financing cash flows from finance leases	\$ 425	\$ 337
Right-of-use assets obtained in exchange for lease obligations:		
Operating leases	\$ 47,678	\$ 803
Finance leases	\$ 81	\$ 428

10. Commitments and Contingencies

Royalty Obligations

In March 2005, the Company entered into a license agreement that requires the Company to make minimum royalty payments to the licensor on a quarterly basis. In July 2019, the Company amended the license agreement to extend its term for an additional ten years and to increase the required minimum annual royalty payments by \$0.2 million. As of both March 31, 2022 and December 31, 2021, the amended license agreement required minimum quarterly royalty payments of \$0.3 million. Unless terminated earlier, the term of the amended license agreement shall expire June 30, 2029.

In April 2012, the Company entered into an agreement that requires the Company to pay, on a quarterly basis, a 5% royalty on sales of products covered under applicable patents. The first commercial sale of covered products occurred in April 2014. Unless terminated earlier, the royalty term for each applicable product shall continue for fifteen years following the first commercial sale of such patented product, or when the applicable patent covering such product has expired, whichever is sooner.

Royalty expense included in cost of revenue for the three months ended March 31, 2022 and 2021 was \$0.6 million and \$0.5 million, respectively.

Contingencies

From time to time, the Company may have certain contingent liabilities that arise in the ordinary course of business. The Company accrues a liability for such matters when it is probable that future expenditures will be made and such expenditures can be reasonably estimated.

Indemnification

The Company enters into standard indemnification arrangements in the ordinary course of business. In many such arrangements, the Company agrees to indemnify, hold harmless, and reimburse the indemnified parties for losses suffered or incurred by the indemnified parties in connection with any trade secret, copyright, patent or other intellectual property infringement claim by any third-party with respect to the Company's technology. The Company also agrees to indemnify many indemnified parties for product defect and similar claims. The term of these indemnification agreements is generally perpetual. The maximum potential amount of future payments the Company could be required to make under these agreements is not determinable because it involves claims that may be made against the Company in the future, but have not yet been made.

The Company has entered into indemnification agreements with its directors and officers that may require the Company to indemnify its directors and officers against liabilities that may arise by reason of their status or service as directors or officers, other than liabilities arising from willful misconduct of the individual.

The Company has not incurred costs to defend lawsuits or settle claims related to these indemnification agreements. No liability associated with any of these indemnification requirements has been recorded to date.

Litigation

From time to time, the Company is subject to other claims and assessments in the ordinary course of business. The Company is not currently a party to any such litigation matter that, individually or in the aggregate, is expected to have a material adverse effect on the Company's business, financial condition, results of operations or cash flows.

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11. Stockholders' Equity**Equity Incentive Plans****Stock Options**

Activity of stock options under the Company's 2005 Stock Plan, 2011 Equity Incentive Plan and Amended and Restated 2014 Equity Incentive Plan (collectively, the "Plans") during the three months ended March 31, 2022 is set forth below:

	Number of Shares	Weighted-Average Exercise Price
Balance at December 31, 2021	1,141,814	\$ 27.02
Exercised	(62,724)	17.57
Canceled/Forfeited	(1,000)	22.04
Balance at March 31, 2022	1,078,090	27.58

Restricted Stock Units

Activity of unvested restricted stock units under the Plans during the three months ended March 31, 2022 is set forth below:

	Number of Shares	Weighted -Average Grant Date Fair Value
Unvested at December 31, 2021	409,482	\$ 210.41
Granted	77,830	208.73
Released/Vested	(41,260)	183.95
Canceled/Forfeited	(5,139)	205.99
Unvested at March 31, 2022	440,913	212.64

As of March 31, 2022, 418,704 restricted stock units are expected to vest.

Stock-based Compensation

The following table sets forth the stock-based compensation expense included in the Company's condensed consolidated statements of operations for the three months ended March 31, 2022 and 2021 (in thousands):

	Three Months Ended March 31,	
	2022	2021
Cost of revenue	\$ 856	\$ 798
Research and development	1,386	1,062
Sales, general and administrative	6,651	4,535
Total	\$ 8,893	\$ 6,395

As of March 31, 2022, total unrecognized compensation cost was \$74.6 million related to unvested share-based compensation arrangements which is expected to be recognized over a weighted average period of 3.1 years.

The total stock-based compensation cost capitalized in inventory was \$1.9 million and \$1.8 million as of March 31, 2022 and December 31, 2021, respectively.

12. Accumulated Other Comprehensive Income

Other comprehensive income (loss) consists of two components: unrealized gains or losses on the Company's available-for-sale marketable investments and gains or losses from foreign currency translation adjustments. Until realized and reported as a component of consolidated net income (loss), these comprehensive income (loss) items accumulate and are included within accumulated other comprehensive income. Unrealized gains and losses on the Company's marketable investments are reclassified from accumulated other comprehensive income into earnings when realized upon sale, and are determined based on specific identification of securities sold. Gains and losses from the translation of assets and liabilities denominated in non-U.S. dollar functional currencies are included in accumulated other comprehensive income.

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The following table summarizes the changes in the accumulated balances during the period and includes information regarding the manner in which the reclassifications out of accumulated other comprehensive income into earnings affect the Company's condensed consolidated statements of operations and condensed consolidated statements of comprehensive (loss) income (in thousands):

	Three Months Ended March 31, 2022			Three Months Ended March 31, 2021		
	Marketable Investments	Currency Translation Adjustments	Total	Marketable Investments	Currency Translation Adjustments	Total
Balance, beginning of the period	\$ (595)	\$ (2,035)	\$ (2,630)	\$ 647	\$ 1,894	\$ 2,541
Other comprehensive (loss) income before reclassifications:						
Unrealized (loss) — marketable investments	(2,474)	—	(2,474)	(353)	—	(353)
Foreign currency translation (losses) gains	—	(868)	(868)	—	(2,695)	(2,695)
Income tax effect — expense	—	—	—	82	—	82
Net of tax	(2,474)	(868)	(3,342)	(271)	(2,695)	(2,966)
Amounts reclassified from accumulated other comprehensive income (loss) to consolidated net (loss) income:						
Realized gain (loss) — marketable investments	—	—	—	—	—	—
Income tax effect — expense (benefit)	—	—	—	—	—	—
Net of tax	—	—	—	—	—	—
Net current-year other comprehensive (loss) income	(2,474)	(868)	(3,342)	(271)	(2,695)	(2,966)
Balance, end of the period	\$ (3,069)	\$ (2,903)	\$ (5,972)	\$ 376	\$ (801)	\$ (425)

13. Income Taxes

The Company's income tax expense (benefit), deferred tax assets and liabilities, and reserves for unrecognized tax benefits reflect management's best assessment of estimated current and future taxes to be paid. The Company is subject to income taxes in both the United States and foreign jurisdictions. Significant judgment and estimates are required in determining the consolidated income tax expense.

During interim periods, the Company generally utilizes the estimated annual effective tax rate ("AETR") method which involves the use of forecasted information. Under the AETR method, the provision is calculated by applying the estimated AETR for the full fiscal year to "ordinary" income or loss (pretax income or loss excluding unusual or infrequently occurring discrete items) for the reporting period. Jurisdictions with tax assets for which the Company believes a tax benefit cannot be realized are excluded from the computation of its AETR.

The Company's benefit from income taxes for the three months ended March 31, 2022 was \$5.2 million, which was primarily due to tax benefits attributable to its worldwide losses combined with excess tax benefits from stock-based compensation attributable to its U.S. jurisdiction. The Company's provision for income taxes for the three months ended March 31, 2021 was \$1.5 million, which was primarily due to tax expenses attributable to its worldwide profits offset by excess tax benefits from stock-based compensation attributable to its U.S. jurisdiction.

The Company's effective tax rate was 101.5% for the three months ended March 31, 2022, compared to 12.4% for the three months ended March 31, 2021. The Company's change in effective tax rate was primarily attributable to large tax benefits over relatively small worldwide losses for the three months ended March 31, 2022, when compared to small tax expenses over relatively large worldwide profits for the three months ended March 31, 2021.

Significant domestic deferred tax assets ("DTAs") were generated in recent years, primarily due to excess tax benefits from stock option exercises and vesting of restricted stock. The Company evaluates all available positive and negative evidence, objective and subjective in nature, in each reporting period to determine if sufficient taxable income will be generated to realize the benefits of its DTAs and, if not, a valuation allowance to reduce the DTAs is recorded. As of March 31, 2022 and 2021, the Company maintains a valuation allowance against its Federal Research and Development Tax Credit and California DTAs as the Company could not conclude at the required more-likely-than-not level of certainty, that the benefit of these tax attributes would be realized prior to expiration.

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The Company maintains that all foreign earnings, with the exception of a portion of the earnings of its German subsidiary, are permanently reinvested outside the United States and therefore deferred taxes attributable to such are not provided for in the Company's condensed consolidated financial statements as of March 31, 2022.

14. Net Income Attributable to Penumbra, Inc. Per Share

The Company computed basic net income attributable to Penumbra, Inc. per share based on the weighted average number of shares of common stock outstanding during the period. The Company computed diluted net income attributable to Penumbra, Inc. per share based on the weighted average number of shares of common stock outstanding plus potentially dilutive common stock equivalents outstanding during the period using the treasury stock method. For the purposes of this calculation, stock options, restricted stock units and stock sold through the Company's employee stock purchase plan are considered common stock equivalents.

A reconciliation of the numerator and denominator used in the calculation of the basic and diluted net income attributable to Penumbra, Inc. per share is as follows (in thousands, except share and per share amounts):

	Three Months Ended March 31,	
	2022	2021
<i>Numerator:</i>		
Net income attributable to Penumbra, Inc.	\$ 79	\$ 11,836
<i>Denominator:</i>		
Weighted average shares used to compute net income attributable to common stockholders:		
Basic	37,646,122	36,455,712
Potential dilutive stock-based options and awards	1,062,535	1,077,808
Diluted	38,708,657	37,533,520
Net income attributable to Penumbra, Inc. per share:		
Basic	\$ 0.00	\$ 0.32
Diluted	\$ 0.00	\$ 0.32

For the three months ended March 31, 2022 and 2021, outstanding stock-based awards of 123 thousand and 22 thousand shares, respectively, were excluded from the computation of diluted net income attributable to Penumbra, Inc. per share because their effect would have been anti-dilutive.

15. Revenues

Revenue Recognition

Revenue is recognized in an amount that reflects the consideration the Company expects to be entitled to in exchange for goods or services. All revenue recognized in the condensed consolidated statements of operations is considered to be revenue from contracts with customers.

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The following table presents the Company's revenues disaggregated by geography, based on the destination to which the Company ships its products, for the three months ended March 31, 2022 and 2021 (in thousands):

	Three Months Ended March 31,	
	2022	2021
United States	\$ 144,308	\$ 120,070
International	59,587	49,134
Total	<u>\$ 203,895</u>	<u>\$ 169,204</u>

The following table presents the Company's revenues disaggregated by product category, for the three months ended March 31, 2022 and 2021 (in thousands):

	Three Months Ended March 31,	
	2022	2021
Vascular	\$ 122,809	\$ 89,165
Neuro	81,086	80,039
Total	<u>\$ 203,895</u>	<u>\$ 169,204</u>

China Distribution and Technology Licensing Agreement

In December 2020, the Company entered into a distribution and technology licensing arrangement with its existing distribution partner in China. In addition to modifying the Company's standard distribution agreement with its Chinese partner, the Company agreed to license the technology for certain products to its Chinese partner to permit the manufacturing and commercialization of such products in China as well as provide certain regulatory support. During the three months ended March 31, 2022, the Company further amended the distribution agreement and entered into an additional license agreement, pursuant to which the Company agreed to license the technology for additional products to its Chinese partner on substantially the same terms as the existing license agreement. Apart from the standard distribution agreement, the Company will receive fixed payments upon transferring its distinct licensed technology and providing related regulatory support and receive royalty payments on the down-stream sale of the licensed products.

Performance Obligations

Delivery of products - The Company's contracts with customers typically contain a single performance obligation, delivery of the Company's products. Satisfaction of that performance obligation occurs when control of the promised goods transfers to the customer, which is generally upon shipment for non-consignment sale agreements and upon utilization for consignment sale agreements.

Payment terms - The Company's payment terms vary by the type and location of our customer. The timing between fulfillment of performance obligations and when payment is due is not significant and does not give rise to financing transactions. The Company did not have any contracts with significant financing components as of March 31, 2022.

Product returns - The Company may allow customers to return products purchased at the Company's discretion. The Company estimates the amount of its product sales that may be returned by its customers and records this estimate as a reduction of revenue in the period in which the related product revenue is recognized. The Company currently estimates product return liabilities using its own historic sales information, trends, industry data, and other relevant data points.

Warranties - The Company offers its standard warranty to all customers and it is not available for sale on a standalone basis. The Company's standard warranty represents its guarantee that its products function as intended, are free from defects, and comply with agreed-upon specifications and quality standards. This assurance does not constitute a service and is not a separate performance obligation.

Transaction Price

Revenue is recorded at the net sales price, which includes estimates of variable consideration such as product returns utilizing historical return rates, rebates, discounts, and other adjustments to net revenue. To the extent the transaction price includes variable consideration, the Company estimates the amount of variable consideration that should be included in the transaction price. When determining if variable consideration should be constrained, management considers whether there are

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factors that could result in a significant reversal of revenue and the likelihood of a potential reversal. Variable consideration is included in revenue only to the extent that it is probable that a significant reversal of the revenue recognized will not occur when the uncertainty associated with the variable consideration is subsequently resolved. These estimates are reassessed each reporting period as required. During the three months ended March 31, 2022, the Company made no material changes in estimates for variable consideration. When the Company performs shipping and handling activities after control of goods is transferred to the customer, they are considered as fulfillment activities, and costs are accrued for when the related revenue is recognized. Taxes collected from customers relating to product sales and remitted to governmental authorities are excluded from revenues.

Contract liabilities, net

The following information summarizes the Company's contract assets and liabilities (in thousands):

	March 31, 2022	December 31, 2021
Contract liabilities, net	\$ 7,468	\$ 5,671

Contract liabilities represents amounts that the Company has already invoiced and are ultimately expected to be recognized as revenue, but for which not all revenue recognition criteria have been met and is recognized as the associated performance obligations are satisfied. Contract assets for the periods presented primarily represent the difference between the revenue that was recognized based on the relative standalone selling price of the related performance obligations satisfied and the contractual billing terms in the arrangements. Revenue recognized during the three months ended March 31, 2022 relating to contract liabilities as of December 31, 2021 was \$4.7 million.

ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS.

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with the unaudited condensed consolidated financial statements and the related notes thereto included elsewhere in this Quarterly Report on Form 10-Q and the audited consolidated financial statements and notes thereto and management's discussion and analysis of financial condition and results of operations for the year ended December 31, 2021, included in our Annual Report on Form 10-K filed with the Securities and Exchange Commission ("SEC") on February 22, 2022.

This Quarterly Report on Form 10-Q contains "forward-looking statements" within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). In some cases, you can identify these statements by forward-looking words such as "may," "will," "expect," "believe," "anticipate," "intend," "could," "should," "estimate," or "continue," and similar expressions or variations, but these words are not the exclusive means for identifying such statements. Such forward-looking statements are subject to risks, uncertainties and other factors that could cause actual results and the timing of certain events to differ materially from future results and timing expressed or implied by such forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those identified below, and those discussed in the section titled "Risk Factors" in Part I, Item 1A of our Annual Report on Form 10-K for the year ended December 31, 2021. The forward-looking statements in this Quarterly Report on Form 10-Q represent our views as of the date of this Quarterly Report on Form 10-Q. Except as may be required by law, we assume no obligation to update these forward-looking statements or the reasons that results could differ from these forward-looking statements. You should, therefore, not rely on these forward-looking statements as representing our views as of any date subsequent to the date of this Quarterly Report on Form 10-Q.

Overview

Penumbra is a global healthcare company focused on innovative therapies. We design, develop, manufacture and market novel products and have a broad portfolio that addresses challenging medical conditions in markets with significant unmet need. Our team focuses on developing, manufacturing and marketing novel products for use by specialist physicians and other healthcare providers to drive improved clinical and health outcomes. We believe that the cost-effectiveness of our products is attractive to our customers.

Since our founding in 2004, we have had a strong track record of organic product development and commercial expansion that has established the foundation of our global organization. We have successfully developed, obtained regulatory clearance or approval for, and introduced products into the neurovascular market since 2007, vascular market since 2013, neurosurgical market since 2014, and immersive healthcare market since 2020.

We expect to continue to develop and build our portfolio of products, including our thrombectomy, embolization, access and immersive healthcare technologies, while iterating on our currently available products. Generally, when we introduce a next generation product or a new product designed to replace a current product, sales of the earlier generation product or the product replaced decline. Our research and development activities are centered around the development of new products and clinical activities designed to support our regulatory submissions and demonstrate the effectiveness of our products.

To address the challenging and significant clinical needs of our key markets, we developed products that fall into the following broad product offering families:

Our neuro products fall into four broad product families:

- Neuro thrombectomy - Penumbra System, including Penumbra RED, JET, ACE and the 3D Revascularization Device, Penumbra ENGINE and other components and accessories
- Neuro embolization - Penumbra SMART COIL, Penumbra Coil 400, POD400 and PAC400
- Neuro access - delivery catheters, consisting of Neuron, Neuron MAX, Select, BENCHMARK, BMX96, DDC and PX SLIM
- Neurosurgical - Artemis Neuro Evacuation Device

Our vascular products fall into two broad product families:

- Vascular thrombectomy - INDIGO System designed for mechanical thrombectomy, including aspiration catheters, separators, aspiration pump and accessories and Lightning, our next-generation aspiration system for peripheral thrombectomy
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- Peripheral embolization - RUBY Coil System, Ruby LP, LANTERN Delivery Microcatheter and the POD System (POD and POD Packing Coil)

Our immersive healthcare products fall into one broad product family:

- REAL Immersive System - portfolio of products that leverages immersive computer-based technologies to deliver engaging, immersive therapeutics to promote better health, motor function and cognition

We support healthcare providers, hospitals and clinics in more than 100 countries. In the three months ended March 31, 2022 and 2021, 29.2% and 29.0% of our revenue, respectively, was generated from customers located outside of the United States. Our sales outside of the United States are denominated principally in the euro and Japanese yen, with some sales being denominated in other currencies. As a result, we have foreign exchange exposure but do not currently engage in hedging.

We generated revenue of \$203.9 million and \$169.2 million for the three months ended March 31, 2022 and 2021, respectively, an increase of \$34.7 million. We generated an operating loss of \$4.0 million and operating income of \$13.5 million for the three months ended March 31, 2022 and 2021, respectively.

COVID-19 Pandemic

In March 2020, the World Health Organization declared the outbreak of COVID-19 as a pandemic, which continues to spread throughout the U.S. and the world. In response, governments have issued orders restricting certain activities, and while our business falls within the category of healthcare operations, which are essential businesses permitted to continue operating during the COVID-19 pandemic, we have experienced, and expect to continue to experience, disruptions to our operations as a result of the pandemic. For example, hospital resources have been diverted to fight the pandemic, and many government agencies in conjunction with healthcare systems have recommended the deferral of elective and semi-elective medical procedures during the pandemic. Some of Penumbra's medical devices are used in certain procedures that the United States Centers for Medicare & Medicaid Services ("CMS") has indicated are "high-acuity" procedures that should not be postponed during the pandemic in its March 18, 2020 recommendations, while other Penumbra devices are used in elective procedures that physicians may consider postponing. Many of the procedures in which our vascular products are used are elective in nature, whereas procedures in which our neuro products are used, such as stroke, tend to be more emergent in nature.

The impact of COVID-19 on our business remains fluid, and we continue to actively monitor the dynamic situation. We will continue to undertake the following specific actions and strategic priorities to navigate the pandemic:

- We have made changes to how we manufacture, inspect and ship our products to prioritize the health and safety of our employees and to operate under the protocols mandated by our local and state governments. While we are committed to continue to meet demand for our essential devices, we have implemented social distancing and other measures to protect the health and safety of our employees, which have reduced, and may continue to reduce, our manufacturing capacity.
 - We further strengthened our liquidity position by entering into a Credit Agreement (the "Credit Agreement") on April 24, 2020, with JPMorgan Chase Bank, N.A., as administrative agent and lender, and Bank of America, N.A. and Citibank, N.A. as lenders. The Credit Agreement is secured and provides for up to \$100 million in available revolving borrowing capacity with an option, subject to certain conditions, for us to increase the aggregate borrowing capacity to up to \$150 million. This revolving line of credit provides access to capital beyond the \$240.3 million in cash, cash equivalents and marketable investments on our balance sheet as of March 31, 2022, and we believe this will allow us to both navigate the current environment and emerge in a strong liquidity position after the pandemic. During the three months ended March 31, 2021, we entered into an amended one-year credit agreement with JPMorgan Chase Bank, N.A., as administrative agent and lender, and Bank of America, N.A. and Citibank, N.A. as lenders. The amended Credit Agreement extended the maturity date from April 23, 2021 to February 21, 2022 and had substantially the same terms and conditions as the prior credit agreement with certain changes including the exclusion of certain one-time charges and expenses incurred during the fiscal quarters ended September 30, 2020 and December 31, 2020 from the calculation of the financial covenants, reductions in interest rate floors applicable to revolving loans and other changes to borrowing mechanics under the Credit Agreement. In the first quarter of 2022, the Company subsequently entered into a further amended one-year credit agreement with JPMorgan Chase Bank, N.A., as administrative agent and lender, and Bank of America, N.A. and Citibank, N.A. as lenders. The amended Credit Agreement extended the maturity date from February 21, 2022 to February 17, 2023 and has substantially the same terms and conditions as the prior credit agreement with certain changes to the reference benchmark interest rates, applicable margins and borrowing mechanics under the Credit Agreement, having the overall effect of lowering the interest rates payable by the Company on amounts borrowed under the Credit Agreement, and a reduction of the commitment fee payable on the average daily unused amount under the Credit Agreement to 0.25% per annum. As of March 31, 2022, the
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Company was in compliance with the requirements in the amended Credit Agreement. As of March 31, 2022, there were no borrowings outstanding under the Credit Agreement.

- We will continue to prioritize investments in our production capacity and flexibility, commercial channels, preparation for new product launches, and new product developments to help patients.

While we began to see positive trends in certain areas of our business in May 2020, we remain mindful of the negative impacts on business trends we experienced in April 2020 due to the COVID-19 pandemic. The general impact of COVID-19 on our business has been negative and we are unable to reliably predict the full impact that the COVID-19 pandemic will have on our business due to numerous uncertainties, including the severity and duration of the pandemic, the global resurgences of cases, particularly as new variants of the virus spread, additional actions that may be taken by governmental authorities in response to the pandemic, the impact of the pandemic on the business of our customers, distributors and suppliers, other businesses and worldwide economies in general, our ability to have access to our customers to provide training and case support, and other factors identified in Part I, Item 1A “Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2021. We will continue to evaluate the nature and extent of the impact of COVID-19 on our business, consolidated results of operations, and financial condition.

Factors Affecting Our Performance

There are a number of factors that have impacted, and we believe will continue to impact, our results of operations and growth. These factors include:

- The COVID-19 pandemic and measures taken in response thereto, which have negatively affected, and we expect will continue to negatively affect, our revenues and results of operations. Due to these impacts and measures, we may experience significant and unpredictable fluctuations in demand for certain of our products as hospital customers re-prioritize the treatment of patients and distributors adjust their operations to support the current demand level.
- The rate at which we grow our salesforce and the speed at which newly hired salespeople become fully effective can impact our revenue growth or our costs incurred in anticipation of such growth.
- Our industry is intensely competitive and, in particular, we compete with a number of large, well-capitalized companies. We must continue to successfully compete in light of our competitors’ existing and future products and their resources to successfully market to the specialist physicians and other healthcare providers who use our products.
- We must continue to successfully introduce new products that gain acceptance with specialist physicians and other healthcare providers and successfully transition from existing products to new products, ensuring adequate supply. In addition, as we introduce new products and expand our production capacity, we anticipate additional personnel will be hired and trained to build our inventory of components and finished goods in advance of sales, which may cause quarterly fluctuations in our operating results and financial condition.
- Publications of clinical results by us, our competitors and other third parties can have a significant influence on whether, and the degree to which, our products are used by specialist physicians and other healthcare providers and the procedures and treatments those physicians and other healthcare providers choose to administer for a given condition.
- The specialist physicians who use our interventional products may not perform procedures during certain times of the year, such as those periods when they are at major medical conferences or are away from their practices for other reasons, the timing of which occurs irregularly during the year and from year to year.
- Most of our sales outside of the United States are denominated in the local currency of the country in which we sell our products. As a result, our revenue from international sales can be significantly impacted by fluctuations in foreign currency exchange rates.
- The availability and levels of reimbursement within the relevant healthcare payment system for healthcare providers for procedures in which our products are used.

In addition, we have experienced and expect to continue to experience meaningful variability in our quarterly revenue, gross profit and gross margin percentage as a result of a number of factors, including, but not limited to: the impact of COVID-19, the number of available selling days, which can be impacted by holidays; the mix of products sold; the geographic mix of where products are sold; the demand for our products and the products of our competitors; the timing of or failure to

obtain regulatory approvals or clearances for products; increased competition; the timing of customer orders; inventory write-offs due to obsolescence; costs, benefits and timing of new product introductions; costs, benefits and timing of the acquisition and integration of businesses and product lines we may acquire; the availability and cost of components and raw materials; and fluctuations in foreign currency exchange rates. Additionally, unique and certain macroeconomic and geopolitical factors, including those as a result of the Russian invasion of Ukraine, may cause instability and volatility in the global financial markets and disruptions within the healthcare industry that may negatively impact our business. We may experience quarters in which we have significant revenue growth sequentially followed by quarters of moderate or no revenue growth. Additionally, we may experience quarters in which operating expenses, in particular research and development expenses, fluctuate depending on the stage and timing of product development.

Components of Results of Operations

Revenue. We sell our interventional products directly to hospitals and other healthcare providers and through distributors for use in procedures performed by specialist physicians to treat patients in two key markets: neuro and vascular disease. We sell our products through purchase orders, and we do not have long term purchase commitments from our customers. Revenue from product sales is recognized either on the date of shipment or the date of receipt by the customer, but is deferred for certain transactions when control has not yet transferred. With respect to products that we consign to hospitals, which primarily consist of coils, we recognize revenue at the time hospitals utilize products in a procedure. Revenue also includes shipping and handling costs that we charge to customers.

Cost of Revenue. Cost of revenue consists primarily of the cost of raw materials and components, personnel costs, including stock-based compensation, inbound freight charges, receiving costs, inspection and testing costs, warehousing costs, royalty expense, shipping and handling costs, and other labor and overhead costs incurred in the manufacturing of products. In addition, we record write-downs or write-offs of inventory in the event that a portion of our inventory becomes excess or obsolete.

We manufacture substantially all of our products in our manufacturing facilities in Alameda and Roseville, California.

Operating Expenses

Research and Development (“R&D”). R&D expenses primarily consist of product development, clinical and regulatory expenses, materials, depreciation and other costs associated with the development of our products. R&D expenses also include salaries, benefits and other related costs, including stock-based compensation, for personnel and consultants. We generally expense R&D costs as they are incurred, with the exception of certain costs incurred for the development of computer software for internal use related to our REAL Immersive System offerings. We capitalize certain costs when it is determined that it is probable that the project will be completed and the software will be used to perform the function intended, and the preliminary project stage is completed. Capitalized internal use software development costs are included in property and equipment, net within the condensed consolidated balance sheets.

Sales, General and Administrative (“SG&A”). SG&A expenses primarily consist of salaries, benefits and other related costs, including stock-based compensation, for personnel and consultants engaged in sales, marketing, finance, legal, compliance, administrative, facilities and information technology and human resource activities. Our SG&A expenses also include marketing trials, medical education, training, commissions, generally based on sales, to direct sales representatives, amortization of acquired intangible assets and acquisition-related costs.

(Benefit from) Provision For Income Taxes

We are taxed at the rates applicable within each jurisdiction in which we operate. The composite income tax rate, tax provisions, deferred tax assets (“DTAs”) and deferred tax liabilities will vary according to the jurisdiction in which profits arise. Tax laws are complex and subject to different interpretations by management and the respective governmental taxing authorities, and require us to exercise judgment in determining our income tax provision, our deferred tax assets and deferred tax liabilities and the potential valuation allowance recorded against our net DTAs. Deferred tax assets and liabilities are determined using the enacted tax rates in effect for the years in which those tax assets are expected to be realized. A valuation allowance is established when it is more likely than not that the future realization of all or some of the DTAs will not be achieved.

Results of Operations

The following table sets forth the components of our condensed consolidated statements of operations in dollars and as a percentage of revenue for the periods presented:

	Three Months Ended March 31,			
	2022		2021	
	(in thousands, except for percentages)			
Revenue	\$ 203,895	100.0 %	\$ 169,204	100.0 %
Cost of revenue	76,477	37.5	57,867	34.2
Gross profit	127,418	62.5	111,337	65.8
Operating expenses:				
Research and development	20,564	10.1	18,076	10.7
Sales, general and administrative	110,900	54.4	79,798	47.2
Total operating expenses	131,464	64.5	97,874	57.8
(Loss) income from operations	(4,046)	(2.0)	13,463	8.0
Interest (expense) income, net	(47)	0.0	480	0.3
Other expense, net	(1,011)	(0.5)	(1,476)	(0.9)
(Loss) income before income taxes	(5,104)	(2.5)	12,467	7.4
(Benefit from) provision for income taxes	(5,183)	(2.5)	1,541	0.9
Consolidated net income	\$ 79	— %	\$ 10,926	6.5 %
Net loss attributable to non-controlling interest	—	—	(910)	(0.5)
Net income attributable to Penumbra, Inc.	\$ 79	— %	\$ 11,836	7.0 %

Three Months Ended March 31, 2022 Compared to the Three Months Ended March 31, 2021

Revenue

	Three Months Ended March 31,		Change	
	2022	2021	\$	%
	(in thousands, except for percentages)			
Vascular	\$ 122,809	\$ 89,165	\$ 33,644	37.7 %
Neuro	81,086	80,039	1,047	1.3 %
Total	\$ 203,895	\$ 169,204	\$ 34,691	20.5 %

Revenue increased \$34.7 million, or 20.5%, to \$203.9 million in the three months ended March 31, 2022, from \$169.2 million in the three months ended March 31, 2021. Overall revenue growth is primarily due to an increase in sales of new and existing products within our vascular and neuro businesses.

Revenue from our vascular products increased \$33.6 million, or 37.7%, to \$122.8 million in the three months ended March 31, 2022, from \$89.2 million in the three months ended March 31, 2021. This increase was primarily attributable to increased revenue in China, sales of new products and further market penetration of our existing products. The increase in product sales was driven by sales of our vascular thrombectomy products and peripheral embolization products, which globally increased by 43.2% and 28.8%, respectively in the three months ended March 31, 2022. Prices for our vascular products remained substantially unchanged during the period.

Revenue from our neuro products increased \$1.0 million, or 1.3%, to \$81.1 million in the three months ended March 31, 2022, from \$80.0 million in the three months ended March 31, 2021. This increase in revenue was primarily attributable to sales of new products. The increase in sales of new products was driven by an increase in sales of our neuro thrombectomy products and neuro access products, which globally increased by 2.6% and 1.4%, respectively, partially offset by a decrease in sales of our neuro embolization products, which decreased by 5.5% in the three months ended March 31, 2022. Prices for our neuro products remained substantially unchanged during the period.

Revenue by Geographic Area

The following table presents revenue by geographic area, based on our customers' shipping destinations, for the three months ended March 31, 2022 and 2021:

	Three Months Ended March 31,				Change	
	2022		2021		\$	%
(in thousands, except for percentages)						
United States	\$ 144,308	70.8 %	\$ 120,070	71.0 %	\$ 24,238	20.2 %
International	59,587	29.2 %	49,134	29.0 %	10,453	21.3 %
Total	\$ 203,895	100.0 %	\$ 169,204	100.0 %	\$ 34,691	20.5 %

Revenue from product sales in international markets increased \$10.5 million, or 21.3%, to \$59.6 million in the three months ended March 31, 2022, from \$49.1 million in the three months ended March 31, 2021. Revenue from international sales represented 29.2% and 29.0% of our total revenue for the three months ended March 31, 2022 and 2021, respectively.

Gross Margin

	Three Months Ended March 31,				Change	
	2022		2021		\$	%
(in thousands, except for percentages)						
Cost of revenue	\$ 76,477		\$ 57,867		\$ 18,610	32.2 %
Gross profit	\$ 127,418		\$ 111,337		\$ 16,081	14.4 %
Gross margin %	62.5 %		65.8 %			

Gross margin decreased 3.3 percentage points to 62.5% in the three months ended March 31, 2022, from 65.8% in the three months ended March 31, 2021, primarily due to higher labor and logistics costs as a result of manufacturing transfer activities and higher labor absenteeism due to the Omicron variant at the beginning of the quarter. Gross margin is impacted by our ability to scale production capacity to support our expanding portfolio of products as well as our continued investments in COVID-19 related safety measures. As such, with labor efficiency and productivity improvements, our gross margin may be gradually expanding.

Research and Development ("R&D")

	Three Months Ended March 31,				Change	
	2022		2021		\$	%
(in thousands, except for percentages)						
R&D	\$ 20,564		\$ 18,076		\$ 2,488	13.8 %
<i>R&D as a percentage of revenue</i>	10.1 %		10.7 %			

R&D expenses increased by \$2.5 million, or 13.8%, to \$20.6 million in the three months ended March 31, 2022, from \$18.1 million in the three months ended March 31, 2021. The increase was primarily due to a \$4.3 million increase in personnel-related expenses driven by an increase in headcount and a \$0.7 million increase in infrastructure costs to support our growth, partially offset by a \$2.7 million decrease in product development and testing costs.

We have made investments, and plan to continue to make investments, in the development of our products, which may include hiring additional research and development employees. In addition, we have experienced in the past, and may continue to experience in the future, variability in expenses incurred due to the timing and costs of clinical trials and product development.

Sales, General and Administrative (“SG&A”)

	Three Months Ended March 31,		Change	
	2022	2021	\$	%
	(in thousands, except for percentages)			
SG&A	\$ 110,900	\$ 79,798	\$ 31,102	39.0 %
<i>SG&A as a percentage of revenue</i>	<i>54.4 %</i>	<i>47.2 %</i>		

SG&A expenses increased by \$31.1 million, or 39.0%, to \$110.9 million in the three months ended March 31, 2022, from \$79.8 million in the three months ended March 31, 2021. The increase was primarily due to a \$12.7 million increase in personnel-related expenses driven by an increase in headcount and related expenses to support our growth, a \$4.2 million increase in costs related to marketing events, a \$4.8 million increase in travel and other in-person expenses, a \$2.9 million increase in infrastructure costs, and a \$1.8 million amortization expense of finite lived intangible assets acquired in connection with the Sixense acquisition.

As we continue to invest in our growth, we have expanded and may continue to expand our sales, marketing, and general and administrative teams through the hiring of additional employees. In addition, we have experienced in the past, and may continue to experience in the future, variability in expenses incurred due to the timing and costs of investments in infrastructure to support the business.

(Benefit from)/Provision for Income Taxes

	Three Months Ended March 31,		Change	
	2022	2021	\$	%
	(in thousands, except for percentages)			
(Benefit from) provision for income taxes	\$ (5,183)	\$ 1,541	\$ (6,724)	(436.3)%
<i>Effective tax rate</i>	<i>101.5 %</i>	<i>12.4 %</i>		

Our benefit from income taxes was \$5.2 million for the three months ended March 31, 2022, which was primarily due to tax benefits attributable to our worldwide losses combined with excess tax benefit from stock-based compensation attributable to our U.S. jurisdiction. Our provision for income taxes was \$1.5 million for the three months ended March 31, 2021, which was primarily due to tax expenses attributable to our worldwide profits offset by excess tax benefit from stock-based compensation attributable to our U.S. jurisdiction. The effective tax rate was 101.5% for the three months ended March 31, 2022, compared to 12.4% for the three months ended March 31, 2021. Our change in effective tax rate was primarily attributable to large tax benefits over relatively small worldwide losses for the three months ended March 31, 2022, when compared to small tax expenses over relatively large worldwide profits for the three months ended March 31, 2021.

Prospectively, our effective tax rate will likely be driven by (1) permanent differences in taxable income for tax and financial reporting purposes, (2) tax expense or benefit attributable to our worldwide financial result, and (3) discrete tax adjustments such as excess tax benefits related to stock-based compensation. Our income tax provision is subject to volatility as the amount of excess tax benefits can fluctuate from period to period based on the price of our stock, the volume of share-based grants settled or vested, and the fair value assigned to equity awards under U.S. GAAP.

Liquidity and Capital Resources

As of March 31, 2022, we had \$560.2 million in working capital, which included \$68.2 million in cash and cash equivalents and \$172.2 million in marketable investments. As of March 31, 2022, we held approximately 24.3% of our cash and cash equivalents in foreign entities.

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In addition to our existing cash and cash equivalents and marketable investment balances, our principal source of liquidity is our accounts receivable. In order to further strengthen our liquidity position and financial flexibility during the COVID-19 pandemic, on April 24, 2020 we entered into a Credit Agreement (the "Credit Agreement") with JPMorgan Chase Bank, N.A., as administrative agent and lender, and Bank of America, N.A. and Citibank, N.A. as lenders. The Credit Agreement is secured and provides for up to \$100 million in available revolving borrowing capacity with an option, subject to certain conditions, for us to increase the aggregate borrowing capacity to up to \$150 million, and was set to mature on April 23, 2021. During the three months ended March 31, 2021, we entered into an amended one-year credit agreement with JPMorgan Chase Bank, N.A., as administrative agent and lender, and Bank of America, N.A. and Citibank, N.A. as lenders. The amended Credit Agreement extended the maturity date from April 23, 2021 to February 21, 2022 and had substantially the same terms and conditions as the prior credit agreement with certain changes including the exclusion of certain one-time charges and expenses incurred during the fiscal quarters ended September 30, 2020 and December 31, 2020 from the calculation of the financial covenants, reductions in interest rate floors applicable to revolving loans and other changes to borrowing mechanics under the Credit Agreement. In the first quarter of 2022, the Company entered into a further amended one-year credit agreement with JPMorgan Chase Bank, N.A., as administrative agent and lender, and Bank of America, N.A. and Citibank, N.A. as lenders. The amended Credit Agreement extended the maturity date from February 21, 2022 to February 17, 2023 and has substantially the same terms and conditions as the prior credit agreement with certain changes to the reference benchmark interest rates, applicable margins and borrowing mechanics under the Credit Agreement, having the overall effect of lowering the interest rates payable by the Company on amounts borrowed under the Credit Agreement, and a reduction of the commitment fee payable on the average daily unused amount under the Credit Agreement to 0.25% per annum. See Note "8. Indebtedness" to our condensed consolidated financial statements in Part I, Item 1 of this Quarterly Report on Form 10-Q for more information.

We believe our sources of liquidity will be sufficient to meet our liquidity requirements for at least the next 12 months. Our principal liquidity requirements are to fund our operations, expand manufacturing operations which includes, but is not limited to, maintaining sufficient levels of inventory to meet the anticipated demand of our customers, fund research and development activities and fund our capital expenditures. We may also lease or purchase additional facilities to facilitate our growth. We expect to continue to make investments as we launch new products, expand our manufacturing operations and information technology infrastructures and further expand into international markets. We may, however, require or elect to secure additional financing as we continue to execute our business strategy. If we require or elect to raise additional funds, we may do so through equity or debt financing, which may not be available on favorable terms, could result in dilution to our stockholders, could result in changes to our capital structure, and could require us to agree to covenants that limit our operating flexibility.

While we have strengthened our liquidity position, we cannot reliably estimate the extent to which the COVID-19 pandemic may impact our cash flow from operations in the second quarter and beyond.

The following table summarizes our cash and cash equivalents, marketable investments and selected working capital data as of March 31, 2022 and December 31, 2021:

	March 31, 2022	December 31, 2021
	(in thousands)	
Cash and cash equivalents	\$ 68,163	\$ 59,379
Marketable investments	172,178	195,496
Accounts receivable, net	143,417	133,940
Accounts payable	14,137	13,421
Accrued liabilities	105,533	99,796
Working capital ⁽¹⁾	560,227	558,277

⁽¹⁾ Working capital consists of total current assets less total current liabilities.

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The following table sets forth, for the periods indicated, our beginning balance of cash and cash equivalents, net cash flows provided by (used in) operating, investing and financing activities and our ending balance of cash and cash equivalents:

	Three Months Ended March 31,	
	2022	2021
	(in thousands)	
Cash and cash equivalents and restricted cash at beginning of period	\$ 59,379	\$ 69,670
Net cash used in operating activities	(4,514)	(14,368)
Net cash provided by investing activities	15,711	3,090
Net cash used in financing activities	(2,641)	(2,614)
Cash and cash equivalents and restricted cash at end of period	68,163	55,632

Net Cash Used In Operating Activities

Net cash used in operating activities consists primarily of consolidated net income adjusted for certain non-cash items (including depreciation and amortization, stock-based compensation expense, inventory write-downs, and changes in deferred tax balances), and the effect of changes in working capital and other activities.

Net cash used in operating activities was \$4.5 million during the three months ended March 31, 2022 and consisted of consolidated net income of \$0.1 million and non-cash items of \$9.8 million, offset by net changes in operating assets and liabilities of \$14.4 million. The change in operating assets and liabilities includes an increase in inventories of \$11.8 million to support our growth, an increase in accounts receivable of \$8.7 million, and an increase in prepaid expenses and other current and non-current assets of \$3.8 million, and an increase in accounts payable of \$1.4 million. This was partially offset by an increase in accrued expenses and other non-current liabilities of \$8.2 million and proceeds of \$0.2 million received related to lease incentives from operating leases.

Net cash used in operating activities was \$14.4 million during the three months ended March 31, 2021 and consisted of consolidated net income of \$10.9 million and non-cash items of \$13.0 million offset by net changes in operating assets and liabilities of \$38.3 million. The change in operating assets and liabilities includes an increase in inventories of \$31.6 million, an increase in accounts receivable of \$12.9 million and an increase in prepaid expenses and other current and non-current assets of \$3.5 million. This was partially offset by an increase in accrued expenses and other non-current liabilities of \$8.5 million.

Net Cash Provided By Investing Activities

Net cash provided by investing activities relates primarily to proceeds from maturities of marketable investments, net of purchases, and capital expenditures.

Net cash provided by investing activities was \$15.7 million during the three months ended March 31, 2022 and primarily consisted of proceeds from maturities of marketable investments of \$20.7 million, partially offset by capital expenditures of \$5.0 million.

Net cash provided by investing activities was \$3.1 million during the three months ended March 31, 2021 and primarily consisted of proceeds from maturities of marketable investments, net purchases, of \$7.2 million, partially offset by capital expenditures of \$4.0 million.

Net Cash Used In Financing Activities

Net cash used in financing activities primarily relates to payments of employee taxes related to vested restricted stock units, payments towards the reduction of our finance lease obligations and certain acquisition-related payments, and proceeds from exercises of stock options and issuance of common stock.

Net cash used in financing activities was \$2.6 million during the three months ended March 31, 2022 and primarily consisted of \$3.2 million of payments of employee taxes related to vested restricted stock and restricted stock units and \$0.4 million in payments towards finance leases, partially offset by proceeds from exercises of stock options of \$1.1 million.

Net cash used in financing activities was \$2.6 million during the three months ended March 31, 2021 and primarily consisted of \$3.0 million of payments of employee taxes related to vested restricted stock and restricted stock units and \$0.3 million in payments towards finance leases, partially offset by proceeds from exercises of stock options of \$0.7 million.

Contractual Obligations and Commitments

During the three months ended March 31, 2022, the Company entered into new leases and modified existing leases for certain properties. See Note “9. Leases” to our condensed consolidated financial statements in Part I, Item 1 of this Quarterly Report on Form 10-Q for more information regarding our future lease obligations.

There have been no other material changes to our contractual obligations and commitments as of March 31, 2022 from those disclosed in our Annual Report on Form 10-K for the year ended December 31, 2021.

Critical Accounting Policies and Estimates

We have prepared our financial statements in accordance with U.S. GAAP. Our preparation of these financial statements requires us to make estimates, assumptions, and judgments that affect the reported amounts of assets, liabilities, expenses, and related disclosures at the date of the financial statements, as well as revenue and expenses recorded during the reporting periods. We evaluate our estimates and judgments on an ongoing basis. We base our estimates on historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results could therefore differ materially from these estimates under different assumptions or conditions.

There have been no material changes to our critical accounting policies from those described in “Management’s Discussion and Analysis of Financial Condition and Results of Operations” included in our Annual Report on Form 10-K for the year ended December 31, 2021.

Recently Issued Accounting Standards

For information with respect to recently issued accounting standards and the impact of these standards on our condensed consolidated financial statements, see Note “2. Summary of Significant Accounting Policies” to our condensed consolidated financial statements in Part I, Item 1 of this Quarterly Report on Form 10-Q.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.

We are exposed to various market risks, which may result in potential losses arising from adverse changes in market rates, such as interest rates and foreign exchange rates. We do not enter into derivatives or other financial instruments for trading or speculative purposes and do not believe we are exposed to material market risk with respect to our cash and cash equivalents and/or our marketable investments.

Interest Rate Risk. We had cash and cash equivalents of \$68.2 million as of March 31, 2022, which consisted of funds held in money market funds, general checking and savings accounts. In addition, we had marketable investments of \$172.2 million, which consisted primarily of commercial paper, corporate bonds, U.S. agency and government sponsored securities, and U.S. states and municipalities. Our investment policy is focused on the preservation of capital and supporting our liquidity needs. Under the policy, we invest in highly rated securities, while limiting the amount of credit exposure to any one issuer other than the U.S. government. We do not invest in financial instruments for trading or speculative purposes, nor do we use leveraged financial instruments. We utilize external investment managers who adhere to the guidelines of our investment policy. The revolving loans under our Credit Agreement bear interest at: (1) the adjusted EURIBOR rate, plus an applicable rate, for euro currency revolving borrowing; or (2) an alternate base rate, daily simple SOFR, or adjusted term SOFR rate, as applicable, plus an applicable rate, for revolving borrowing in U.S. dollars. As of March 31, 2022, there were no borrowings outstanding under the Credit Agreement. A hypothetical 100 basis point change in interest rates would not have a material impact on the value of our cash and cash equivalents or marketable investments.

Foreign Exchange Risk Management. We operate in countries other than the United States, and, therefore, we are exposed to foreign currency risks. We bill most sales outside of the United States in local currencies, primarily euro and Japanese yen, with some sales being denominated in other currencies. We expect that the percentage of our sales denominated in foreign currencies may increase in the foreseeable future as we continue to expand into international markets. When sales or expenses are not denominated in U.S. dollars, a fluctuation in exchange rates could affect our net income. We do not believe

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our net income attributable to Penumbra, Inc. would be materially impacted by an immediate 10% adverse change in foreign exchange rates. We do not currently hedge our exposure to foreign currency exchange rate fluctuations; however, we may choose to hedge our exposure in the future.

While our gross margin for the three months ended March 31, 2022 was impacted by higher labor and logistics costs as a result of manufacturing transfer activities and higher labor absenteeism due to the Omicron variant at the beginning of the quarter, changes in prices did not have a significant impact on our results of operations for any periods presented on our consolidated financial statements.

ITEM 4. CONTROLS AND PROCEDURES.

Evaluation of Disclosure Controls and Procedures

An evaluation as of March 31, 2022 was carried out under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, of the effectiveness of our “disclosure controls and procedures,” which are defined in Rule 13a-15(e) under the Securities Exchange Act of 1934, as amended (the “Exchange Act”), as controls and other procedures of a company that are designed to ensure that the information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission’s rules and forms, and that such information is accumulated and communicated to the company’s management, including its principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure. Based upon that evaluation, our principal executive officer and principal financial officer concluded that our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) were effective at March 31, 2022.

Changes in Internal Control Over Financial Reporting

There was no change in our internal control over financial reporting (as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) that occurred during the quarterly period ended March 31, 2022 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

Limitations on the Effectiveness of Controls

A control system, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Because of inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues, if any, within a company have been detected. Accordingly, our disclosure controls and procedures are designed to provide reasonable, not absolute, assurance that the objectives of our disclosure control system are met and, as set forth above, our principal executive officer and principal financial officer have concluded, based on their evaluation as of the end of the period covered by this report, that our disclosure controls and procedures were effective to provide reasonable assurance that the objectives of our disclosure control system were met.

PART II - OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS.

For information with respect to Legal Proceedings, see Note “10. Commitments and Contingencies” to our condensed consolidated financial statements in Part I, Item 1 of this Quarterly Report on Form 10-Q.

ITEM 1A. RISK FACTORS.

There have been no material changes to our risk factors reported in, or new factors identified since the filing of, our Annual Report on Form 10-K for the year ended December 31, 2021, which was filed with the SEC on February 22, 2022.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS.

None.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES.

None.

ITEM 4. MINE SAFETY DISCLOSURE.

None.

ITEM 5. OTHER INFORMATION.

None.

ITEM 6. EXHIBITS.

Exhibit Number	Description	Form	File No.	Exhibit(s)	Filing Date
10.1*	Amendment No. 2, dated as of February 18, 2022, to Credit Agreement, dated as of April 24, 2020, by and among Penumbra, Inc. and JPMorgan Chase Bank, N.A., as Administrative Agent and Lender, Citibank, N.A., as Lender, and Bank of America, N.A., as Lender.				
31.1*	Certification of Principal Executive Officer Required Under Rule 13a-14(a) and 15d-14(a) of the Securities Exchange Act of 1934, as amended.				
31.2*	Certification of Principal Financial Officer Required Under Rule 13a-14(a) and 15d-14(a) of the Securities Exchange Act of 1934, as amended.				
32.1**	Certification of Principal Executive Officer and Principal Financial Officer Required Under Rule 13a-14(b) of the Securities Exchange Act of 1934, as amended, and 18 U.S.C. §1350.				
101*	The following materials from the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2022 formatted in Inline Extensible Business Reporting Language (iXBRL) includes: (i) Condensed Consolidated Balance Sheets as of March 31, 2022 and December 31, 2021, (ii) Condensed Consolidated Statements of Operations for the three months ended March 31, 2022 and 2021, (iii) Condensed Consolidated Statements of Comprehensive (Loss) Income for the three months ended March 31, 2022 and 2021, (iv) Condensed Consolidated Statements of Stockholders' Equity for the three months ended March 31, 2022 and 2021, (v) Condensed Consolidated Statements of Cash Flows for the three months ended March 31, 2022 and 2021, and (vi) Notes to Condensed Consolidated Financial Statements.				
104*	Cover Page Interactive Data File (formatted as iXBRL with applicable taxonomy extension information contained in Exhibit 101).				

* Filed herewith.

** Furnished herewith.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: May 3, 2022

PENUMBRA, INC.

By: /s/ Maggie Yuen

Maggie Yuen

Chief Financial Officer

(Principal Financial Officer)

AMENDMENT NO. 2

Dated as of February 18, 2022

to

CREDIT AGREEMENT

Dated as of April 24, 2020

THIS AMENDMENT No. 2 ("Amendment") is entered into as of February 18, 2022 by and among Penumbra, Inc. (the "Borrower"), the financial institutions listed on the signature pages hereof and JPMorgan Chase Bank, N.A., as Administrative Agent (the "Administrative Agent"), under that certain Credit Agreement dated as of April 24, 2020, by and among the Borrower, the Lenders and the Administrative Agent (as amended, restated, supplemented or otherwise modified from time to time prior to the date hereof, the "Credit Agreement"). Capitalized terms used herein and not otherwise defined herein shall have the respective meanings given to them in the Credit Agreement.

WHEREAS, the Borrower has requested that the requisite Lenders and the Administrative Agent agree to certain amendments to the Credit Agreement;

WHEREAS, the Borrower, the Lenders party hereto and the Administrative Agent have so agreed on the terms and conditions set forth herein;

NOW, THEREFORE, in consideration of the premises set forth above, the terms and conditions contained herein, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Borrower, the Lenders party hereto and the Administrative Agent hereby agree to enter into this Amendment.

1. Amendments to the Credit Agreement. Effective as of the date of satisfaction of the conditions precedent set forth in Section 2 below, the parties hereto agree the Credit Agreement is hereby amended to delete the stricken text (indicated textually in the same manner as the following example: ~~stricken text~~) and to add the double-underlined text (indicated textually in the same manner as the following example: double-underlined text) as set forth in the pages of the Credit Agreement attached as Exhibit A hereto.

2. Condition of Effectiveness. The effectiveness of this Amendment is subject to the satisfaction of the following conditions precedent:

(a) The Administrative Agent shall have received counterparts of this Amendment duly executed by the Borrower, each Lender and the Administrative Agent.

(b) The Administrative Agent shall have received a favorable written opinion (addressed to the Administrative Agent and the Lenders and dated the date hereof) of Johanna Roberts, General Counsel of the Loan Parties, covering such matters relating to the Loan Parties, the Loan Documents or the Transactions as the Administrative Agent shall reasonably request.

(c) The Administrative Agent shall have received a certificate, dated the date hereof and signed by the President, a Vice President or a Financial Officer of the Borrower, certifying (i) that the representations and warranties contained in Article III of the Credit Agreement are true and correct in all material respects (provided that any representation or warranty that is qualified by materiality or Material Adverse Effect shall be true and correct in all respects) as of such date except to the extent that such representations and warranties specifically refer to an earlier date, in which case they are true and correct in all material respects (or, in the case of any representation or warranty qualified by materiality or

Material Adverse Effect in all respects) as of such earlier date and (ii) that no Default or Event of Default has occurred and is continuing as of such date.

(d) The Administrative Agent shall have received a certificate of the Secretary or an Assistant Secretary of each Loan Party certifying (i) that there have been no changes in the Articles of Incorporation or other charter document of such Loan Party since the Effective Date, (ii) the By-Laws or other applicable organizational document delivered on the Effective Date remain in effect on the date of such certification, (iii) resolutions of the Board of Directors or other governing body of such Loan Party authorizing the execution, delivery and performance of this Amendment to which it is a party, and (iv) the names and true signatures of the incumbent officers of each Loan Party authorized to sign the Loan Documents to which it is a party, and (in the case of the Borrower) authorized to request a Borrowing or the issuance of a Letter of Credit under the Credit Agreement.

(e) The Administrative Agent shall have received all fees and other amounts due and payable on or prior to the date hereof, including, to the extent invoiced at least one (1) Business Day prior to the date hereof, reimbursement or payment of all reasonable and documented out-of-pocket expenses required to be reimbursed or paid by the Borrower hereunder.

3. Representations and Warranties of the Company. The Borrower hereby represents and warrants as follows:

(a) This Amendment and the Credit Agreement as modified hereby each constitutes a valid and binding agreement of the Borrower enforceable in accordance with its terms, provided that the enforceability hereof and thereof is subject in each case to general principles of equity and to bankruptcy, insolvency and similar laws affecting the enforcement of creditors' rights generally.

(b) As of the date hereof and giving effect to the terms of this Amendment, (i) no Default has occurred and is continuing and (ii) the representations and warranties of the Company set forth in the Credit Agreement, as modified hereby, are true and correct in all material respects (without duplication of any materiality qualifier contained therein).

4. Reference to and Effect on the Credit Agreement.

(a) Upon the effectiveness hereof, each reference to the Credit Agreement in the Credit Agreement or any other Loan Document shall mean and be a reference to the Credit Agreement as modified hereby.

(b) Each Loan Document and all other documents, instruments and agreements executed and/or delivered in connection therewith shall remain in full force and effect and are hereby ratified and confirmed.

(c) Except as expressly set forth herein, the execution, delivery and effectiveness of this Amendment shall not operate as a waiver of any right, power or remedy of the Administrative Agent or the Lenders, nor constitute a waiver of any provision of the Credit Agreement, the Loan Documents or any other documents, instruments and agreements executed and/or delivered in connection therewith.

(d) This Amendment is a Loan Document.

5. Governing Law. This Amendment shall be construed in accordance with and governed by the law of the State of New York.

6. Headings. Section headings in this Amendment are included herein for convenience of reference only and shall not constitute a part of this Amendment for any other purpose.

7. Counterparts. This Amendment may be executed in counterparts (and by different parties hereto in different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. The words “execution,” “signed,” “signature,” “delivery,” and words of like import in or relating to this Amendment and/or any document to be signed in connection with this Amendment and the transactions contemplated hereby shall be deemed to include Electronic Signatures (as defined below), deliveries or the keeping of records in electronic form, each of which shall be of the same legal effect, validity or enforceability as a manually executed signature, physical delivery thereof or the use of a paper-based recordkeeping system, as the case may be. As used herein, “Electronic Signatures” means any electronic symbol or process attached to, or associated with, any contract or other record and adopted by a person with the intent to sign, authenticate or accept such contract or record.

[Signature Pages Follow]

IN WITNESS WHEREOF, this Amendment has been duly executed as of the day and year first above written.

PENUMBRA, INC.
as the Borrower

By: /s/ Maggie Yuen
Name: Maggie Yuen
Title: Chief Financial Officer

Signature Page to Amendment No. 2 to
Credit Agreement dated as of April 24, 2020
Penumbra, Inc.

JPMORGAN CHASE BANK, N.A.,
individually as a Lender and as Administrative Agent

By: /s/ Ling Li
Name: Ling Li
Title: Executive Director

Signature Page to Amendment No. 2 to
Credit Agreement dated as of April 24, 2020
Penumbra, Inc.

BANK OF AMERICA, N.A., individually as a Lender

By /s/ Sebastian Lurie
Name: Sebastian Lurie
Title: SVP

Signature Page to Amendment No. 2 to
Credit Agreement dated as of April 24, 2020
Penumbra, Inc.

CITIBANK, N.A.,
as a Lender and Issuing Bank

By /s/ Laura Fogarty
Name: Laura Fogarty
Title: Authorized Signer

Signature Page to Amendment No. 2 to
Credit Agreement dated as of April 24, 2020
Penumbra, Inc.

Exhibit A

[Attached]

CONFORMED CREDIT AGREEMENT

J.P.Morgan

CREDIT AGREEMENT

dated as of

April 24, 2020

among

PENUMBRA, INC.

The Lenders Party Hereto

and

JPMORGAN CHASE BANK, N.A.
as Administrative Agent

JPMORGAN CHASE BANK, N.A.
as Sole Bookrunner and Sole Lead Arranger

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CREDIT AGREEMENT (this “Agreement”) dated as of April 24, 2020 among PENUMBRA, INC., the LENDERS from time to time party hereto, and JPMORGAN CHASE BANK, N.A., as Administrative Agent.

The parties hereto agree as follows:

ARTICLE I

Definitions

SECTION 1.01. Defined Terms. As used in this Agreement, the following terms have the meanings specified below:

“ABR”, when used in reference to any Loan or Borrowing, refers to such Loan, or the Loans comprising such Borrowing, bearing interest at a rate determined by reference to the Alternate Base Rate. All ABR Loans shall be denominated in Dollars.

“Acquisition” means any acquisition (whether by purchase, merger, consolidation or otherwise) or series of related acquisitions by the Borrower or any Subsidiary of (i) all or substantially all the assets of (or all or substantially all the assets constituting a business unit, division, product line or line of business of) any Person, or (ii) all or substantially all the Equity Interests in a Person or division or line of business of a Person.

“Acquisition Consideration” means the sum of the cash purchase price for any Permitted Acquisition payable in respect of such Permitted Acquisition (and which, for the avoidance of doubt, shall include any purchase price adjustment, royalty, earnout, contingent payment, progress payments, milestone payments or any other deferred payment of a similar nature) plus the aggregate amount of Indebtedness assumed on such date in connection with such Permitted Acquisition; provided that Acquisition Consideration shall not include any sales-based milestone payments to be made after the closing of any Permitted Acquisition.

“Adjusted Daily Simple RFR” means, (i) with respect to any RFR Borrowing denominated in Sterling, an interest rate per annum equal to (a) the Daily Simple RFR for Sterling, plus (b) 0.0326% and (ii) with respect to any RFR Borrowing denominated in Dollars, an interest rate per annum equal to (a) the Daily Simple RFR for Dollars, plus (b) 0.10%; provided that if the Adjusted Daily Simple RFR Rate as so determined would be less than the Floor, such rate shall be deemed to be equal to the Floor for the purposes of this Agreement.

“Adjusted ~~EURIBO~~EURIBOR Rate” means, with respect to any ~~Eurocurrency~~Term Benchmark Borrowing denominated in ~~euro~~Euros for any Interest Period, an interest rate per annum equal to (a) the ~~EURIBO~~EURIBOR Rate for such Interest Period multiplied by (b) the Statutory Reserve Rate; provided that if the Adjusted EURIBOR Rate as so determined would be less than the Floor, such rate shall be deemed to be equal to the Floor for the purposes of this Agreement.

“Adjusted ~~LIBO~~Term SOFR Rate” means, with respect to any ~~Eurocurrency~~Term Benchmark Borrowing denominated in Dollars ~~or Pounds Sterling~~ for any Interest Period, an interest rate per annum ~~(rounded upwards, if necessary, to the next 1/16 of 1%)~~ equal to (a) the ~~LIBO~~Term SOFR Rate for such Interest Period ~~multiplied by (b) the Statutory Reserve Rate, plus (b) 0.10%; provided that if the Adjusted Term SOFR Rate as so determined would be less than the Floor, such rate shall be deemed to be equal to the Floor for the purposes of this Agreement.~~

“Administrative Agent” means JPMorgan Chase Bank, N.A. ~~(including its branches and/or any of its designated branch offices or affiliates)~~, in its capacity as administrative agent for the Lenders hereunder.

“Administrative Questionnaire” means an Administrative Questionnaire in a form supplied by the Administrative Agent.

“Affected Financial Institution” means (a) any EEA Financial Institution or (b) any UK Financial Institution.

“Affiliate” means, with respect to a specified Person, another Person that directly, or indirectly through one or more intermediaries, Controls or is Controlled by or is under common Control with the Person specified.

“Agent-Related Person” has the meaning assigned to such term in Section 9.04(d).

“Aggregate Commitment” means the aggregate of the Commitments of all of the Lenders, as reduced or increased from time to time pursuant to the terms and conditions hereof. The initial Aggregate Commitment as of the Effective Date is \$100,000,000.

“Agreed Currencies” means (i) Dollars, (ii) euro, (iii) ~~Pounds~~-Sterling and (iv) any other currency (x) that is a lawful currency (other than Dollars) ~~that~~which is readily available, not restricted and freely transferable and convertible into Dollars, ~~and~~ (y) ~~for which a LIBO Screen Rate or other applicable screen rate is available in the Administrative Agent’s determination and~~ (z) that is agreed to by the Administrative Agent and each of the Lenders.

“Agreement” has the meaning assigned to such term in the introductory paragraph.

“Alternate Base Rate” means, for any day, a rate per annum equal to the greatest of (a) the Prime Rate in effect on such day, (b) the NYFRB Rate in effect on such day plus ½ of 1% and (c) the Adjusted ~~LIBO Term SOFR~~ Rate for a one month Interest Period ~~in Dollars on as published two U.S. Government Securities Business Days prior to~~ such day (or if such day is not a Business Day, the immediately preceding Business Day) plus 1%; provided that for the purpose of this definition, the Adjusted ~~LIBO Term SOFR~~ Rate for any day shall be based on the ~~LIBO Screen Rate (or if the LIBO Screen Rate is not available for such one month Interest Period, the LIBO Interpolated Rate)~~ Term SOFR Reference Rate at approximately 11:00:00 a.m. London time on such day (Chicago time) on such day (or any amended publication time for the Term SOFR Reference Rate, as specified by the CME Term SOFR Administrator in the Term SOFR Reference Rate methodology). Any change in the Alternate Base Rate due to a change in the Prime Rate, the NYFRB Rate or the Adjusted ~~LIBO Term SOFR~~ Rate shall be effective from and including the effective date of such change in the Prime Rate, the NYFRB Rate or the Adjusted ~~LIBO Term SOFR~~ Rate, respectively. If the Alternate Base Rate is being used as an alternate rate of interest pursuant to Section 2.14 (for the avoidance of doubt, only until the Benchmark Replacement has been determined pursuant to Section 2.14(b)), then the Alternate Base Rate shall be the greater of clauses (a) and (b) above and shall be determined without reference to clause (c) above. For the avoidance of doubt, if the Alternate Base Rate as determined pursuant to the foregoing would be less than 1.00%, such rate shall be deemed to be 1.00% for purposes of this Agreement.

“Ancillary Document” has the meaning assigned to such term in Section 9.06.

“Anti-Corruption Laws” means all laws, rules, and regulations of any jurisdiction applicable to the Borrower or any of its Subsidiaries from time to time concerning or relating to bribery or corruption.

“Applicable Party” has the meaning assigned to such term in Section 8.03(c).

“Applicable Percentage” means, with respect to any Lender, the percentage of the Aggregate Commitment represented by such Lender’s Commitment; provided that, in the case of Section 2.22 when a Defaulting Lender shall exist, “Applicable Percentage” shall mean the percentage of the Aggregate Commitment (disregarding any Defaulting Lender’s Commitment) represented by such Lender’s Commitment. If the Commitments have terminated or expired, the Applicable Percentages shall be determined based upon the Commitments most recently in effect, giving effect to any assignments and to any Lender’s status as a Defaulting Lender at the time of determination.

“Applicable Rate” means, ~~(i)~~ for any day ~~prior to the First Amendment Effective Date~~, with respect to any ~~Eurocurrency Loan or any~~ ABR Loan ~~or Term Benchmark Loan, RFR Loan~~ or

with respect to the commitment fees payable hereunder, as the case may be, the applicable rate per annum set forth below under the caption “~~Eurocurrency~~ ~~ABR Spread~~”, “~~Term Benchmark~~ Spread”, “~~ABRRFR~~ Spread” or “Commitment Fee Rate”, as the case may be:

<u>ABR Spread</u>	Eurocurrency <u>Term Benchmark</u> Spread	ABRRFR Spread	<u>Commitment Fee Rate</u>
<u>0.70%</u>	2.50 <u>1.70%</u>	1.50 <u>1.70%</u>	0.35 <u>0.25%</u>

~~and (ii) for any day on or after the First Amendment Effective Date, with respect to any Eurocurrency Loan or any ABR Loan or with respect to the commitment fees payable hereunder, as the case may be, the applicable rate per annum set forth below under the caption “Eurocurrency Spread”, “ABR Spread” or “Commitment Fee Rate”, as the case may be:~~

<u>Eurocurrency Spread</u>	<u>ABR Spread</u>	<u>Commitment Fee Rate</u>
<u>2.25%</u>	<u>1.25%</u>	<u>0.35%</u>

“Applicable Time” means, with respect to any Borrowings and payments in any Agreed Currency, the local time in the place of settlement for such Foreign Currency as may be determined by the Administrative Agent or the Issuing Bank, as the case may be, to be necessary for timely settlement on the relevant date in accordance with normal banking procedures in the place of payment.

“Approved Electronic Platform” has the meaning assigned to such term in Section 8.03(a).

“Approved Fund” has the meaning assigned to such term in Section 9.04(b).

“Arranger” means JPMorgan Chase Bank, N.A. in its capacity as sole bookrunner and sole lead arranger hereunder.

“Assignment and Assumption” means an assignment and assumption agreement entered into by a Lender and an assignee (with the consent of any party whose consent is required by Section 9.04), and accepted by the Administrative Agent, in the form of Exhibit A or any other form (including electronic records generated by the use of an electronic platform) approved by the Administrative Agent.

“Augmenting Lender” has the meaning assigned to such term in Section 2.20.

“Availability Period” means the period from and including the Effective Date to but excluding the earlier of the Maturity Date and the date of termination of the Commitments.

“Available Revolving Commitment” means, at any time with respect to any Lender, the Commitment of such Lender then in effect minus the Revolving Credit Exposure of such Lender at such time; it being understood and agreed that any Lender’s Swingline Exposure shall not be deemed to be a component of the Revolving Credit Exposure for purposes of calculating the commitment fee under Section 2.12(a).

“Available Tenor” means, as of any date of determination and with respect to the then-current Benchmark for any Agreed Currency, as applicable, any tenor for such Benchmark (or component thereof) or payment period for interest calculated with reference to such Benchmark (or component thereof), as applicable, that is or may be used for determining the length of an Interest Period for any term rate or otherwise, for determining any frequency of making payments of interest calculated pursuant to this Agreement as of such date and not including, for the avoidance of doubt, any

tenor for such Benchmark that is then-removed from the definition of “Interest Period” pursuant to clause (f) of Section 2.14.

“Bail-In Action” means the exercise of any Write-Down and Conversion Powers by the applicable Resolution Authority in respect of any liability of an Affected Financial Institution.

“Bail-In Legislation” means, (a) with respect to any EEA Member Country implementing Article 55 of Directive 2014/59/EU of the European Parliament and of the Council of the European Union, the implementing law, regulation, rule or requirement for such EEA Member Country from time to time which is described in the EU Bail-In Legislation Schedule and (b) with respect to the United Kingdom, Part I of the United Kingdom Banking Act 2009 (as amended from time to time) and any other law, regulation or rule applicable in the United Kingdom relating to the resolution of unsound or failing banks, investment firms or other financial institutions or their affiliates (other than through liquidation, administration or other insolvency proceedings).

“Banking Services” means each and any of the following bank services provided to the Borrower or any Subsidiary by any Lender or any of its Affiliates: (a) credit cards for commercial customers (including, without limitation, commercial credit cards and purchasing cards), (b) stored value cards, (c) merchant processing services and (d) treasury management services (including, without limitation, controlled disbursement, automated clearinghouse transactions, return items, any direct debit scheme or arrangement, overdrafts and interstate depository network services).

“Banking Services Agreement” means any agreement entered into by the Borrower or any Subsidiary in connection with Banking Services.

“Banking Services Obligations” means any and all obligations of the Borrower or any Subsidiary, whether absolute or contingent and howsoever and whensoever created, arising, evidenced or acquired (including all renewals, extensions and modifications thereof and substitutions therefor) in connection with Banking Services.

“Bankruptcy Code” means Title 11 of the United States Code entitled “Bankruptcy”, as now and hereafter in effect, or any successor statute.

“Bankruptcy Event” means, with respect to any Person, such Person becomes the subject of a voluntary or involuntary bankruptcy or insolvency proceeding, or has had a receiver, conservator, trustee, administrator, custodian, assignee for the benefit of creditors or similar Person charged with the reorganization or liquidation of its business appointed for it, or, in the good faith determination of the Administrative Agent, has taken any action in furtherance of, or indicating its consent to, approval of, or acquiescence in, any such proceeding or appointment or has had any order for relief in such proceeding entered in respect thereof; provided that a Bankruptcy Event shall not result solely by virtue of any ownership interest, or the acquisition of any ownership interest, in such Person by a Governmental Authority or instrumentality thereof, unless such ownership interest results in or provides such Person with immunity from the jurisdiction of courts within the United States or from the enforcement of judgments or writs of attachment on its assets or permits such Person (or such Governmental Authority or instrumentality) to reject, repudiate, disavow or disaffirm any contracts or agreements made by such Person.

“Benchmark” means, initially, with respect to any (i) RFR Loan in any Agreed Currency, the applicable Relevant Rate for such Agreed Currency or (ii) Term Benchmark Loan, the Relevant Rate for such Agreed Currency; *provided* that if a Benchmark Transition Event, ~~a Term SOFR Transition Event, a Term ESTR Transition Event or an Early Opt-in Election, as applicable, and its~~ and the related Benchmark Replacement Date have occurred with respect to the applicable Relevant Rate or the then-current Benchmark for such Agreed Currency, then “Benchmark” means the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to clause (b) ~~or clause (c)~~ of Section 2.14.

“Benchmark Replacement” means, for any Available Tenor, the first alternative set forth in the order below that can be determined by the Administrative Agent for the applicable Benchmark

Replacement Date; *provided* that, in the case of any Loan denominated in ~~an Other Agreed~~ a Foreign Currency, “Benchmark Replacement” shall mean the alternative set forth in ~~(32)~~ below:

~~(1)~~

~~(A) in the case of any Loan denominated in Dollars, the sum of: (a) Term SOFR and (b) the related Benchmark Replacement Adjustment;~~

~~(B) in the case of any Loan denominated in Pounds Sterling, the sum of: (a) Daily Simple SONIA and (b) the related Benchmark Replacement Adjustment;~~

~~(C) in the case of any Loan denominated in euros, the sum of: (a) Term ESTR and (b) the related Benchmark Replacement Adjustment;~~

~~(2)~~

~~(A)1. in the case of any Loan denominated in Dollars, the sum of: (a) Adjusted Daily Simple SOFR and (b) the related Benchmark Replacement Adjustment~~RFR for RFR Borrowings in Dollars;

~~(B) in the case of any Loan denominated in euros, the sum of: (a) Daily Simple ESTR and (b) the related Benchmark Replacement Adjustment;~~

~~(32) the sum of: (a) the alternate benchmark rate that has been selected by the Administrative Agent and the Borrower as the replacement for the then-current Benchmark for the applicable Corresponding Tenor giving due consideration to (i) any selection or recommendation of a replacement benchmark rate or the mechanism for determining such a rate by the Relevant Governmental Body or (ii) any evolving or then-prevailing market convention for determining a benchmark rate as a replacement for the then-current Benchmark for syndicated credit facilities denominated in the applicable Agreed Currency at such time in the United States and (b) the related Benchmark Replacement Adjustment;~~

~~provided that, in the case of clause (1)(A) or (1)(C), such Unadjusted Benchmark Replacement is displayed on a screen or other information service that publishes such rate from time to time as selected by the Administrative Agent in its reasonable discretion; provided further that, (x) solely with respect to a Loan denominated in Dollars, notwithstanding anything to the contrary in this Agreement or in any other Loan Document, upon the occurrence of a Term SOFR Transition Event, and the delivery of a Term SOFR Notice, on the applicable Benchmark Replacement Date the “Benchmark Replacement” shall revert to and shall be deemed to be the sum of (a) Term SOFR and (b) the related Benchmark Replacement Adjustment, as set forth in clause (1)(A) of this definition (subject to the first proviso above); (y) with respect to a Loan denominated in euros, notwithstanding anything to the contrary contained in this Agreement or in any other Loan Document, upon the occurrence of a Term ESTR Transition Event, and the delivery of a Term ESTR Notice, on the applicable Benchmark Replacement Date the “Benchmark Replacement” shall revert to and be deemed to be the sum of (a) Term ESTR and (b) the related Benchmark Replacement Adjustment, as set forth in clause (1)(C) of this definition (subject to the first proviso above);~~

If the Benchmark Replacement as determined pursuant to clause (1); ~~or (2) or (3)~~ above would be less than the Floor, the Benchmark Replacement will be deemed to be the Floor for the purposes of this Agreement and the other Loan Documents.

“Benchmark Replacement Adjustment” means, with respect to any replacement of the then-current Benchmark with an Unadjusted Benchmark Replacement for any applicable Interest Period and Available Tenor for any setting of such Unadjusted Benchmark Replacement:

~~, the spread adjustment, or method for calculating or determining such spread adjustment, (which may be a positive or negative value or zero) that has been selected by (1) for purposes of clauses (1) and (2) of the definition of “Benchmark Replacement,” the first alternative set forth in the order below that can be determined by the Administrative Agent:~~

~~(a) the spread adjustment, or method for calculating or determining such spread adjustment, (which may be a positive or negative value or zero) as of the Reference Time such Benchmark Replacement is first set for such Interest Period that has been selected or recommended by the Relevant Governmental Body for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement for the applicable Corresponding Tenor;~~

~~(b) the spread adjustment (which may be a positive or negative value or zero) as of the Reference Time such Benchmark Replacement is first set for such Interest Period that would apply to the fallback rate for a derivative transaction referencing the ISDA Definitions to be effective upon an index cessation event with respect to such Benchmark for the applicable Corresponding Tenor; and~~

~~(2) for purposes of clause (3) of the definition of “Benchmark Replacement,” the spread adjustment, or method for calculating or determining such spread adjustment, (which may be a positive or negative value or zero) that has been selected by the~~the ~~Administrative Agent and the Borrower for the applicable Corresponding Tenor giving due consideration to (i) any selection or recommendation of a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement by the Relevant Governmental Body on the applicable Benchmark Replacement Date and/or (ii) any evolving or then-prevailing market convention for determining a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement for syndicated credit facilities denominated in the applicable Agreed Currency at such time;~~

~~provided that, in the case of clause (1) above, such adjustment is displayed on a screen or other information service that publishes such Benchmark Replacement Adjustment from time to time as selected by the Administrative Agent in its reasonable discretion.~~

“Benchmark Replacement Conforming Changes” means, with respect to any Benchmark Replacement and/or any Term Benchmark Loan denominated in Dollars, any technical, administrative or operational changes (including changes to the definition of “Alternate Base Rate,” the definition of “Business Day,” the definition of “U.S. Government Securities Business Day,” the definition of “RFR Business Day,” the definition of “Interest Period,” timing and frequency of determining rates and making payments of interest, timing of borrowing requests or prepayment, conversion or continuation notices, length of lookback periods, the applicability of breakage provisions, and other technical, administrative or operational matters) that the Administrative Agent decides in its reasonable discretion may be appropriate to reflect the adoption and implementation of such Benchmark **Replacement** and to permit the administration thereof by the Administrative Agent in a manner substantially consistent with market practice (or, if the Administrative Agent decides that adoption of any portion of such market practice is not administratively feasible or if the Administrative Agent determines that no market practice for the administration of such Benchmark **Replacement** exists, in such other manner of administration as the Administrative Agent decides is reasonably necessary in connection with the administration of this Agreement and the other Loan Documents).

“Benchmark Replacement Date” means, with respect to any Benchmark, the earliest to occur of the following events with respect to such then-current Benchmark:

(1) in the case of clause (1) or (2) of the definition of “Benchmark Transition Event,” the later of (a) the date of the public statement or publication of information referenced therein and (b) the date on which the administrator of such Benchmark (or the published component used in the calculation thereof) permanently or indefinitely ceases to provide all Available Tenors of such Benchmark (or such component thereof); or

(2) in the case of clause (3) of the definition of “Benchmark Transition Event,” the first date of the public on which such Benchmark (or the published component used in the calculation thereof) has been determined and announced by the regulatory supervisor for the administrator of such Benchmark (or such component thereof) to be no longer representative; provided, that such non-representativeness will be determined by reference to the most recent statement or publication ~~of information~~ referenced ~~therein;~~ in such clause (3) and even if any Available Tenor of such Benchmark (or such component thereof) continues to be provided on such date.

~~(3) in the case of a Term SOFR Transition Event, or a Term ESTR Transition Event, as applicable, the date that is thirty (30) days after the date a Term SOFR Notice or a Term ESTR Notice, as applicable, is provided to the Lenders and the Borrower pursuant to Section 2.14(c); or~~

~~(4) in the case of an Early Opt-in Election, the sixth (6th) Business Day after the date notice of such Early Opt-in Election is provided to the Lenders, so long as the Administrative Agent has not received, by 5:00 p.m., New York City time, on the fifth (5th) Business Day after the date notice of such Early Opt-in Election is provided to the Lenders, written notice of objection to such Early Opt-in Election from Lenders comprising the Required Lenders;~~

For the avoidance of doubt, (i) if the event giving rise to the Benchmark Replacement Date occurs on the same day as, but earlier than, the Reference Time in respect of any determination, the Benchmark Replacement Date will be deemed to have occurred prior to the Reference Time for such determination and (ii) the “Benchmark Replacement Date” will be deemed to have occurred in the case of clause (1) or (2) with respect to any Benchmark upon the occurrence of the applicable event or events set forth therein with respect to all then-current Available Tenors of such Benchmark (or the published component used in the calculation thereof).

“Benchmark Transition Event” means, with respect to any Benchmark, the occurrence of one or more of the following events with respect to such then-current Benchmark:

(1) a public statement or publication of information by or on behalf of the administrator of such Benchmark (or the published component used in the calculation thereof) announcing that such administrator has ceased or will cease to provide all Available Tenors of such Benchmark (or such component thereof), permanently or indefinitely, provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide any Available Tenor of such Benchmark (or such component thereof);

(2) a public statement or publication of information by the regulatory supervisor for the administrator of such Benchmark (or the published component used in the calculation thereof), the Federal Reserve Board, the NYFRB, the CME Term SOFR Administrator, the central bank for the Agreed Currency applicable to such Benchmark, an insolvency official with jurisdiction over the administrator for such Benchmark (or such component), a resolution authority with jurisdiction over the administrator for such Benchmark (or such component) or a court or an entity with similar insolvency or resolution authority over the administrator for such Benchmark (or such component), in each case which states that the administrator of such Benchmark (or such component) has ceased or will cease to provide all Available Tenors of such Benchmark (or such component thereof) permanently or indefinitely; provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide any Available Tenor of such Benchmark (or such component thereof); or

(3) a public statement or publication of information by the regulatory supervisor for the administrator of such Benchmark (or the published component used in the calculation thereof) announcing that all Available Tenors of such Benchmark (or such component thereof) are no longer, or as of a specified future date will no longer be, representative.

For the avoidance of doubt, a “Benchmark Transition Event” will be deemed to have occurred with respect to any Benchmark if a public statement or publication of information set forth above has occurred with respect to each then-current Available Tenor of such Benchmark (or the published component used in the calculation thereof).

“Benchmark Unavailability Period” means, with respect to any Benchmark, the period (if any) (x) beginning at the time that a Benchmark Replacement Date pursuant to clauses (1) or (2) of that definition has occurred if, at such time, no Benchmark Replacement has replaced such then-current Benchmark for all purposes hereunder and under any Loan Document in accordance with Section 2.14 and (y) ending at the time that a Benchmark Replacement has replaced such then-current Benchmark for all purposes hereunder and under any Loan Document in accordance with Section 2.14.

“Beneficial Ownership Certification” means a certification regarding beneficial ownership or control as required by the Beneficial Ownership Regulation.

“Beneficial Ownership Regulation” means 31 C.F.R. § 1010.230.

“Benefit Plan” means any of (a) an “employee benefit plan” (as defined in Section 3(3) of ERISA) that is subject to Title I of ERISA, (b) a “plan” as defined in Section 4975 of the Code to which Section 4975 of the Code applies, and (c) any Person whose assets include (for purposes of the Plan Asset Regulations or otherwise for purposes of Title I of ERISA or Section 4975 of the Code) the assets of any such “employee benefit plan” or “plan”.

“BHC Act Affiliate” of a party means an “affiliate” (as such term is defined under, and interpreted in accordance with, 12 U.S.C. 1841(k)) of such party.

“Borrower” means Penumbra, Inc., a Delaware corporation.

“Borrowing” means (a) Revolving Loans of the same Type and Agreed Currency, made, converted or continued on the same date and, in the case of Eurocurrency Term Benchmark Loans, as to which a single Interest Period is in effect or (b) a Swingline Loan.

“Borrowing Request” means a request by the Borrower for a Borrowing in accordance with Section 2.03, which shall be substantially in the form attached hereto as Exhibit G-1 or any other form approved by the Administrative Agent.

“Burdensome Restrictions” means any consensual encumbrance or restriction of the type described in clause (a) or (b) of Section 6.09.

“Business Day” means, any day ~~that is not (other than a Saturday, or a Sunday or other day)~~ on which ~~commercial banks are open for business~~ in New York City ~~are authorized or required by law to remain closed or Chicago~~; provided that ~~when used in connection with (a) a Eurocurrency Loan denominated in Dollars, the term “Business Day” shall also exclude any day~~ mean (a) in relation to Loans denominated in Sterling, any day (other than a Saturday or a Sunday) on which banks are not open for dealings in Dollar deposits in the business in London interbank market, (b) any Borrowings or LC Disbursements that are the subject of a borrowing, drawing, payment, reimbursement or rate selection denominated in euro, the term “Business Day” shall also exclude any day on which the TARGET2 payment system is not open for the settlement of payments in euro and (c) a Eurocurrency Loan or Letter of Credit denominated in a Foreign Currency other than euro, the term “Business Day” shall also exclude any day on which banks are not open for dealings in deposits in such Foreign Currency in the interbank market in the principal financial center of the country whose lawful currency is such Foreign Currency in relation to Loans denominated in Euros and in relation to the calculation or computation of the EURIBOR Rate, any day which is a TARGET Day and (c) in relation to RFR Loans and any interest rate settings, fundings, disbursements, settlements or payments of any such RFR Loan, or any other dealings in the applicable Agreed Currency of such RFR Loan, any such day that is only an RFR Business Day.

“Capital Lease Obligations” of any Person means the obligations of such Person to pay rent or other amounts under any lease of (or other arrangement conveying the right to use) real or personal property, or a combination thereof, which obligations are required to be classified and accounted for as capital leases or financing leases on a balance sheet of such Person under GAAP, and the amount of such obligations shall be the capitalized amount thereof determined in accordance with GAAP; provided that the lease obligations listed on Schedule 6.00 shall be excluded from the definition of Capital Lease Obligations.

“CBR Loan” means a Loan that bears interest at a rate determined by reference to the Central Bank Rate.

“CBR Spread” means the Applicable Rate, applicable to such Loan that is replaced by a CBR Loan.

“Central Bank Rate” means, (A) the greater of (i) for any Loan denominated in (a) Sterling, the Bank of England (or any successor thereto)’s “Bank Rate” as published by the Bank of England (or any successor thereto) from time to time, (b) Euro, one of the following three rates as may be selected by the Administrative Agent in its reasonable discretion: (1) the fixed rate for the main refinancing operations of the European Central Bank (or any successor thereto), or, if that rate is not published, the minimum bid rate for the main refinancing operations of the European Central Bank (or any successor thereto), each as published by the European Central Bank (or any successor thereto) from time to time, (2) the rate for the marginal lending facility of the European Central Bank (or any successor thereto), as published by the European Central Bank (or any successor thereto) from time to time or (3) the rate for the deposit facility of the central banking system of the Participating Member States, as published by the European Central Bank (or any successor thereto) from time to time and (c) any other Foreign Currency, a central bank rate as determined by the Administrative Agent in its reasonable discretion and (ii) the Floor; plus (B) the applicable Central Bank Rate Adjustment.

“Central Bank Rate Adjustment” means, for any day, for any Loan denominated in (a) Euro, a rate equal to the difference (which may be a positive or negative value or zero) of (i) the average of the Adjusted EURIBOR Rate for the five most recent Business Days preceding such day for which the EURIBOR Screen Rate was available (excluding, from such averaging, the highest and the lowest Adjusted EURIBOR Rate applicable during such period of five Business Days) minus (ii) the Central Bank Rate in respect of Euro in effect on the last Business Day in such period, (b) Sterling, a rate equal to the difference (which may be a positive or negative value or zero) of (i) the average of Adjusted Daily Simple RFR for Sterling Borrowings for the five most recent RFR Business Days preceding such day for which SONIA was available (excluding, from such averaging, the highest and the lowest such Adjusted Daily Simple RFR applicable during such period of five RFR Business Days) minus (ii) the Central Bank Rate in respect of Sterling in effect on the last RFR Business Day in such period and (c) any other Foreign Currency determined after the Effective Date, a Central Bank Rate Adjustment as determined by the Administrative Agent in its reasonable discretion. For purposes of this definition, (x) the term Central Bank Rate shall be determined disregarding clause (B) of the definition of such term and (y) the EURIBOR Rate on any day shall be based on the EURIBOR Screen Rate on such day at approximately the time referred to in the definition of such term for deposits in for a maturity of one month.

“Change in Control” means (a) the acquisition of ownership, directly or indirectly, beneficially or of record, by any Person or group (within the meaning of the Securities Exchange Act of 1934 and the rules of the SEC thereunder as in effect on the date hereof), of Equity Interests representing more than 40% of the aggregate ordinary voting power represented by the issued and outstanding Equity Interests of the Borrower; or (b) occupation at any time of a majority of the seats (other than vacant seats) on the board of directors of the Borrower by Persons who were not (i) directors of the Borrower on the date of this Agreement or (ii) nominated or appointed by the board of directors of the Borrower.

“Change in Law” means the occurrence after the date of this Agreement of (a) the adoption of or taking effect of any law, rule, regulation or treaty, (b) any change in any law, rule, regulation or treaty or in the administration, interpretation, implementation or application thereof by any

Governmental Authority or (c) compliance by any Lender or Issuing Bank (or, for purposes of Section 2.15(b), by any lending office of such Lender or by such Lender's or Issuing Bank's holding company, if any) with any request, rule, guideline or directive (whether or not having the force of law) of any Governmental Authority made or issued after the date of this Agreement; provided that, notwithstanding anything herein to the contrary, (x) the Dodd-Frank Wall Street Reform and Consumer Protection Act and all requests, rules, guidelines or directives thereunder or issued in connection therewith or in the implementation thereof and (y) all requests, rules, guidelines or directives promulgated by the Bank for International Settlements, the Basel Committee on Banking Supervision (or any successor or similar authority) or the United States or foreign regulatory authorities, in each case pursuant to Basel III, shall, in each case, be deemed to be a "Change in Law," regardless of the date enacted, adopted, issued or implemented.

"Charges" has the meaning assigned to such term in Section 9.16.

"Class", when used in reference to any Loan or Borrowing, refers to whether such Loan, or the Loans comprising such Borrowing, are Revolving Loans or Swingline Loans.

"CME Term SOFR Administrator" means CME Group Benchmark Administration Limited as administrator of the forward-looking term Secured Overnight Financing Rate (SOFR) (or a successor administrator).

"Code" means the Internal Revenue Code of 1986, as amended.

"Collateral" means any and all property owned, leased or operated by a Person covered by the Collateral Documents and any and all other property of any Loan Party, now existing or hereafter acquired, that may at any time be or become subject to a security interest or Lien in favor of the Administrative Agent, on behalf of itself and the Secured Parties, pursuant to the Collateral Documents to secure the Secured Obligations, other than Excluded Assets.

"Collateral Documents" means, collectively, the Security Agreement, and all other agreements, instruments and documents executed in connection with this Agreement that are intended to create, perfect or evidence Liens to secure the Secured Obligations, including, without limitation, all other security agreements, pledge agreements, mortgages, deeds of trust, pledges, assignments or similar agreements, whether heretofore, now, or hereafter executed by the Borrower or any Loan Party and delivered to the Administrative Agent.

"Commitment" means, with respect to each Lender, the amount set forth on Schedule 2.01 opposite such Lender's name under the heading "Commitment", or in the Assignment and Assumption or other documentation or record (as such term is defined in Section 9-102(a)(70) of the New York Uniform Commercial Code) contemplated hereby pursuant to which such Lender shall have assumed its Commitment, as applicable, and giving effect to (a) any reduction in such amount from time to time pursuant to Section 2.09, (b) any increase from time to time pursuant to Section 2.20 and (c) any reduction or increase in such amount from time to time pursuant to assignments by or to such Lender pursuant to Section 9.04; provided that at no time shall the Revolving Credit Exposure of any Lender exceed its Commitment.

"Commodity Exchange Act" means the Commodity Exchange Act (7 U.S.C. § 1 et seq.), as amended from time to time, and any successor statute.

"Communications" means, collectively, any notice, demand, communication, information, document or other material provided by or on behalf of any Loan Party pursuant to any Loan Document or the transactions contemplated therein which is distributed by the Administrative Agent, any Lender or the Issuing Bank by means of electronic communications pursuant to Section 8.03, including through an Approved Electronic Platform.

"Computation Date" has the meaning assigned to such term in Section 2.04.

“Connection Income Taxes” means Other Connection Taxes that are imposed on or measured by net income (however denominated) or that are franchise Taxes or branch profits Taxes.

“Consolidated Capital Expenditures” means, without duplication, any expenditures for any purchase or other acquisition of any asset which would be classified as a fixed or capital asset on a consolidated balance sheet of the Borrower and its Subsidiaries prepared in accordance with GAAP; provided that any purchase or acquisition of any hardware or software by any Loan Party relating to the business of MVI Health Inc. shall not constitute Consolidated Capital Expenditures hereunder.

“Consolidated EBITDA” means, with reference to any period, Consolidated Net Income for such period plus, without duplication and to the extent deducted from revenues in determining Consolidated Net Income for such period, (i) Consolidated Interest Expense, (ii) expense for income taxes paid or accrued, (iii) depreciation, (iv) amortization, (v) extraordinary or non-recurring non-cash expenses or losses incurred other than in the ordinary course of business, (vi) non-cash expenses related to stock based compensation, (vii) cash charges, expenses or losses incurred other than in the ordinary course of business (including, without limitation, any fees and expenses incurred in connection with Permitted Acquisitions and incurrence of Indebtedness or other investments, in each case, permitted by this Agreement and whether or not such transactions are consummated); provided that such charges, expenses or losses added back pursuant to this clause (vii) may not exceed ~~\$5,000,000~~ 10,000,000 during any rolling four-quarter period (excluding from such cap, without duplication, (x) \$20,652,395 of such charges, losses or expenses associated with Lightning launch incurred in the fiscal quarter ending September 30, 2020 and (y) \$18,384,891 of such charges, losses or expenses related to the December 15, 2020 voluntary recall of the Jet 7 Reperfusion Catheter with Xtra Flex incurred in the fiscal quarter ending December 31, 2020), (viii) the amount of “run rate” cost savings, operating enhancements, operating expense reductions and synergies (collectively, the “Cost Savings”) related to Acquisitions, divestitures, other specified transactions, restructurings, cost savings initiatives and other initiatives occurring after the Effective Date, in each case, projected by the Borrower in good faith to result from actions which have been taken or with respect to which substantial steps have been taken or are expected to be taken (in the good faith determination of the Borrower) within six (6) months after such transaction or initiative is consummated (which Cost Savings shall be calculated on a pro forma basis as though such Cost Savings had been realized on the first day of the applicable period), net of the amount of actual benefits realized during such period from such actions; provided that a Financial Officer of the Borrower shall have certified to the Administrative Agent that, in the good faith determination of the Borrower, such Cost Savings are (x) reasonably identifiable and factually supportable and (y) reasonably anticipated to result from actions which have been taken or with respect to which substantial steps have been taken or are expected to be taken within six (6) months after such transaction or initiative is consummated; provided, further, that such Cost Savings added back to Consolidated EBITDA pursuant to this clause (viii) in any period shall not exceed an aggregate amount equal to \$5,000,000 for any rolling four-quarter period, minus, to the extent included in Consolidated Net Income for such period, (1) interest income, (2) income tax credits and refunds (to the extent not netted from tax expense), (3) any cash payments made during such period in respect of items described in clauses (v) or (vi) above subsequent to the fiscal quarter in which the relevant non-cash expenses or losses were incurred and (4) extraordinary, unusual or non-recurring income or gains realized other than in the ordinary course of business, all calculated for the Borrower and its Subsidiaries in accordance with GAAP on a consolidated basis. For the purposes of calculating Consolidated EBITDA for any period of four consecutive fiscal quarters (each such period, a “Reference Period”), (i) if at any time during such Reference Period the Borrower or any Subsidiary shall have made any Material Disposition, the Consolidated EBITDA for such Reference Period shall be reduced by an amount equal to the Consolidated EBITDA (if positive) attributable to the property that is the subject of such Material Disposition for such Reference Period or increased by an amount equal to the Consolidated EBITDA (if negative) attributable thereto for such Reference Period, and (ii) if during such Reference Period the Borrower or any Subsidiary shall have made a Material Acquisition, Consolidated EBITDA for such Reference Period shall be calculated after giving effect thereto on a pro forma basis as if such Material Acquisition occurred on the first day of such Reference Period. As used in this definition, “Material Acquisition” means any acquisition of property or series of related acquisitions of property that (a) constitutes (i) assets comprising all or substantially all or any significant portion of a business or operating unit of a business, or (ii) all or substantially all of the common stock or other Equity Interests of a Person, and (b) involves the payment of consideration by the Borrower and its Subsidiaries in excess of \$50,000,000; and “Material Disposition” means any sale, transfer or disposition of property

or series of related sales, transfers, or dispositions of property that yields gross proceeds to the Borrower or any of its Subsidiaries in excess of \$50,000,000.

“Consolidated Interest Expense” means, with reference to any period, the interest expense (including without limitation interest expense under Capital Lease Obligations that is treated as interest in accordance with GAAP) of the Borrower and its Subsidiaries calculated on a consolidated basis for such period with respect to all outstanding Indebtedness of the Borrower and its Subsidiaries allocable to such period in accordance with GAAP (including, without limitation, all commissions, discounts and other fees and charges owed with respect to letters of credit and bankers acceptance financing and net costs under interest rate Swap Agreements to the extent such net costs are allocable to such period in accordance with GAAP). In the event that the Borrower or any Subsidiary shall have completed a Material Acquisition or a Material Disposition since the beginning of the relevant period, Consolidated Interest Expense shall be determined for such period on a pro forma basis as if such acquisition or disposition, and any related incurrence or repayment of Indebtedness, had occurred at the beginning of such period.

“Consolidated Fixed Charges” means, with reference to any period, without duplication, cash Consolidated Interest Expense (and, for the avoidance of doubt, excludes non-cash interest expense relating to a finance lease), plus expense for taxes paid in cash, plus Consolidated Capital Expenditures, all calculated for the Borrower and its Subsidiaries on a consolidated basis in accordance with GAAP; ~~provided, that non-recurring Consolidated Capital Expenditures in the amounts set forth in the table below for the applicable fiscal quarter set forth below shall not be included as Consolidated Capital Expenditures for purposes of this definition.~~

<u>Fiscal quarter ending</u>	<u>Non-recurring Consolidated Capital Expenditures</u>
<u>September 30, 2019</u>	<u>\$6,615,639</u>
<u>December 31, 2019</u>	<u>\$4,184,799</u>
<u>March 31, 2020</u>	<u>\$7,434,000</u>

“Consolidated Net Income” means, with reference to any period, the net income (or loss) of the Borrower and its Subsidiaries calculated in accordance with GAAP on a consolidated basis (without duplication) for such period; provided that there shall be excluded any income (or loss) of any Person other than the Borrower or a Subsidiary, but any such income so excluded may be included in such period or any later period to the extent of any cash dividends or distributions actually paid in the relevant period to the Borrower or any wholly-owned Subsidiary of the Borrower.

“Consolidated Total Assets” means, as of the date of any determination thereof, total assets of the Borrower and its Subsidiaries calculated in accordance with GAAP on a consolidated basis as of such date.

“Consolidated Total Indebtedness” means, as of the date of any determination thereof, the sum, without duplication, of (a) the aggregate Indebtedness of the Borrower and its Subsidiaries (other than intercompany Indebtedness among the Borrower and its Subsidiaries) calculated on a consolidated basis as of such date in accordance with GAAP, (b) the aggregate amount of Indebtedness of the Borrower and its Subsidiaries relating to the maximum drawing amount of all letters of credit outstanding and bankers acceptances and (c) Indebtedness of the type referred to in clauses (a) or (b) hereof of another Person guaranteed by the Borrower or any of its Subsidiaries.

“Consolidated Total Net Indebtedness” means at any date the difference (if positive) between (i) Consolidated Total Indebtedness minus (ii) Liquidity in excess of \$75,000,000, in each case as of such date.

“Control” means the possession, directly or indirectly, of the power to direct or cause the direction of the management or policies of a Person, whether through the ability to exercise voting power, by contract or otherwise. The terms “Controlling” and “Controlled” have meanings correlative thereto.

“Corresponding Tenor” with respect to any Available Tenor means, as applicable, either a tenor (including overnight) or an interest payment period having approximately the same length (disregarding business day adjustment) as such Available Tenor.

“Covered Entity” means any of the following:

- (i) a “covered entity” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 252.82(b);
- (ii) a “covered bank” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 47.3(b); or
- (iii) a “covered FSI” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 382.2(b).

“Covered Matters” means (i) the execution or delivery of this Agreement, any other Loan Document, or any agreement or instrument contemplated hereby or thereby, the performance by the parties hereto of their respective obligations hereunder or thereunder or the consummation of the Transactions or any other transactions contemplated hereby, (ii) any Loan or Letter of Credit or the use of the proceeds therefrom (including any refusal by the Issuing Bank to honor a demand for payment under a Letter of Credit if the documents presented in connection with such demand do not strictly comply with the terms of such Letter of Credit), (iii) any actual or alleged presence or release of Hazardous Materials on or from any property owned or operated by the Borrower or any of its Subsidiaries, or any Environmental Liability related in any way to the Borrower or any of its Subsidiaries, or (iv) any actual or prospective Proceeding relating to any of the foregoing, regardless of whether or not such Proceeding is brought by the Borrower or any other Loan Party or its or their respective equity holders, Affiliates, creditors or any other third Person and whether or not based on contract, tort or any other theory and regardless of whether any Agent-Related Person, Lender-Related Person or Indemnitee is a party thereto.

“Covered Party” has the meaning assigned to it in Section 9.19.

“Credit Event” means a Borrowing, the issuance, amendment or extension of a Letter of Credit, an LC Disbursement or any of the foregoing.

“Credit Party” means the Administrative Agent, the Issuing Bank, the Swingline Lender or any other Lender.

“Cross-Default Reference Obligation” has the meaning assigned to such term in the definition of “Permitted Convertible Indebtedness”.

“Daily Simple ~~ESTR~~RFR” means, for any day, ~~ESTR, with the conventions for this rate (which may include a lookback) being established by the Administrative Agent in accordance with the conventions for this rate selected or recommended by the Relevant Governmental Body for determining “Daily Simple ESTR” for business loans; provided that, if the Administrative Agent decides that any such convention is not administratively feasible for the Administrative Agent, then the Administrative Agent may establish another convention in its reasonable discretion. (an “RFR Interest Day”), an interest rate per annum equal to, for any RFR Loan denominated in (i) Sterling, SONIA for the day that is 5 RFR Business Days prior to (A) if such RFR Interest Day is an RFR Business Day, such RFR Interest Day or (B) if such RFR Interest Day is not an RFR Business Day,~~

the RFR Business Day immediately preceding such RFR Interest Day and (ii) Dollars, Daily Simple SOFR.

~~“Daily Simple SOFR” means, for any day; (a “SOFR, with the conventions for this rate (which may include a lookback) being established by the Administrative Agent in accordance with the conventions for this rate selected or recommended by the Relevant Governmental Body for determining “Daily Simple SOFR” for business loans; provided that, if the Administrative Agent decides that any such convention is not administratively feasible for the Administrative Agent, then the Administrative Agent may establish another convention in its reasonable discretion. Rate Day”), a rate per annum equal to SOFR for the day (such day “SOFR Determination Date”) that is five (5) RFR Business Days prior to (i) if such SOFR Rate Day is an RFR Business Day, such SOFR Rate Day or (ii) if such SOFR Rate Day is not an RFR Business Day, the RFR Business Day immediately preceding such SOFR Rate Day, in each case, as such SOFR is published by the SOFR Administrator on the SOFR Administrator’s Website. Any change in Daily Simple SOFR due to a change in SOFR shall be effective from and including the effective date of such change in SOFR without notice to the Borrower.~~

~~“Daily Simple SONIA” means, for any day, SONIA, with the conventions for this rate (which will include a lookback) being established by the Administrative Agent in accordance with the conventions for this rate selected or recommended by the Relevant Governmental Body for determining “Daily Simple SONIA” for business loans; provided that, if the Administrative Agent decides that any such convention is not administratively feasible for the Administrative Agent, then the Administrative Agent may establish another convention in its reasonable discretion.~~

“Default” means any event or condition which constitutes an Event of Default or which upon notice, lapse of time or both would, unless cured or waived, become an Event of Default.

“Default Right” has the meaning assigned to that term in, and shall be interpreted in accordance with, 12 C.F.R. §§ 252.81, 47.2 or 382.1, as applicable.

“Defaulting Lender” means any Lender that (a) has failed, within two (2) Business Days of the date required to be funded or paid, to (i) fund any portion of its Loans, (ii) fund any portion of its participations in Letters of Credit or Swingline Loans or (iii) pay over to any Credit Party any other amount required to be paid by it hereunder, unless, in the case of clause (i) above, such Lender notifies the Administrative Agent in writing that such failure is the result of such Lender’s good faith determination that a condition precedent to funding (specifically identified and including the particular default, if any) has not been satisfied, (b) has notified the Borrower or any Credit Party in writing, or has made a public statement to the effect, that it does not intend or expect to comply with any of its funding obligations under this Agreement (unless such writing or public statement indicates that such position is based on such Lender’s good faith determination that a condition precedent (specifically identified and including the particular default, if any) to funding a ~~Loan~~ loan under this Agreement cannot be satisfied) or generally under other agreements in which it commits to extend credit, (c) has failed, within three (3) Business Days after request by a Credit Party, acting in good faith, to provide a certification in writing from an authorized officer of such Lender that it will comply with its obligations (and is financially able to meet such obligations as of the date of certification) to fund prospective Loans and participations in then outstanding Letters of Credit and Swingline Loans under this Agreement, provided that such Lender shall cease to be a Defaulting Lender pursuant to this clause (c) upon such Credit Party’s receipt of such certification in form and substance satisfactory to it and the Administrative Agent, or (d) has become the subject of (i) a Bankruptcy Event or (ii) a Bail-In Action.

“Disposition” or “Dispose” means the sale, transfer, license, lease or other disposition (in one transaction or in a series of transactions and whether effected pursuant to a division or otherwise) of any property by any Person (including any Sale and Leaseback Transaction and any issuance of Equity Interests by a Subsidiary of such Person), including any sale, assignment, transfer or other disposal, with or without recourse, of any notes or accounts receivable or any rights and claims associated therewith.

“Disqualified Institution” means (a) Persons that are specifically identified by the Borrower to the Administrative Agent in writing prior to the Effective Date, (b) any Person that is

reasonably determined by the Borrower after the Effective Date to be a competitor of the Borrower or its Subsidiaries and which is specifically identified in a written supplement to the list of “Disqualified Institutions”, which supplement shall become effective three (3) Business Days after delivery thereof to the Administrative Agent and the Lenders in accordance with Section 9.01 and (c) in the case of the foregoing clauses (a) and (b), any of such entities’ Affiliates to the extent such Affiliates (x) are clearly identifiable as Affiliates of such Persons based solely on the similarity of such Affiliates’ and such Persons’ names and (y) are not bona fide debt investment funds. It is understood and agreed that (i) any supplement to the list of Persons that are Disqualified Institutions contemplated by the foregoing clause (b) shall not apply retroactively to disqualify any Persons that have previously acquired an assignment or participation interest in the Loans (but solely with respect to such Loans), (ii) the Administrative Agent shall have no responsibility or liability to determine or monitor whether any Lender or potential Lender is a Disqualified Institution, (iii) the Borrower’s failure to deliver such list (or supplement thereto) in accordance with Section 9.01 shall render such list (or supplement) not received and not effective and (iv) “Disqualified Institution” shall exclude any Person that the Borrower has designated as no longer being a “Disqualified Institution” by written notice delivered to the Administrative Agent from time to time in accordance with Section 9.01.

“Dollar Amount” of any amount of any currency means, at the time of determination thereof, (a) if such amount is expressed in Dollars, such amount, (b) if such amount is expressed in a Foreign Currency, the equivalent of such amount in Dollars determined by using the rate of exchange for the purchase of Dollars with such Foreign Currency last provided (either by publication or otherwise provided to the Administrative Agent) by the applicable Reuters source on the Business Day (New York City time) immediately preceding the date of determination or if such service ceases to be available or ceases to provide a rate of exchange for the purchase of Dollars with such Foreign Currency, as provided by such other publicly available information service which provides that rate of exchange at such time in place of Reuters chosen by the Administrative Agent in its sole discretion (or if such service ceases to be available or ceases to provide such rate of exchange, the equivalent of such amount in Dollars as determined by the Administrative Agent using any method of determination it deems appropriate in its sole discretion) and (c) if such amount is denominated in any other currency, the equivalent of such amount in Dollars as determined by the Administrative Agent using any method of determination it deems appropriate in its sole discretion.

“Dollars” or “\$” refers to lawful money of the United States of America.

“Domestic Subsidiary” means a Subsidiary organized under the laws of a jurisdiction located in the United States of America.

“DQ List” has the meaning assigned to such term in Section 9.04(e)(iv).

“Early Opt-in Election” means, with respect to any Agreed Currency, the occurrence of:

(1) a notification by the Administrative Agent to (or the request by the Borrower to the Administrative Agent to notify) each of the other parties hereto that syndicated credit facilities denominated in the applicable Agreed Currency being executed at such time, or that include language similar to that contained in Section 2.14 are being executed or amended, as applicable, to incorporate or adopt a new benchmark interest rate to replace the Relevant Rate, and

(2) the joint election by the Administrative Agent and the Borrower to declare that an Early Opt-in Election for such Agreed Currency has occurred and the provision, as applicable, by the Administrative Agent of written notice of such election to the Borrower and the Lenders.

“ECP” means an “eligible contract participant” as defined in Section 1(a)(18) of the Commodity Exchange Act or any regulations promulgated thereunder and the applicable rules issued by the Commodity Futures Trading Commission and/or the SEC.

“EEA Financial Institution” means (a) any credit institution or investment firm established in any EEA Member Country which is subject to the supervision of an EEA Resolution Authority, (b) any entity established in an EEA Member Country which is a parent of an institution described in clause (a) of this definition, or (c) any financial institution established in an EEA Member Country which is a subsidiary of an institution described in clauses (a) or (b) of this definition and is subject to consolidated supervision with its parent.

“EEA Member Country” means any of the member states of the European Union, Iceland, Liechtenstein, and Norway.

“EEA Resolution Authority” means any public administrative authority or any Person entrusted with public administrative authority of any EEA Member Country (including any delegee) having responsibility for the resolution of any EEA Financial Institution.

“Effective Date” means the date on which the conditions specified in Section 4.01 are satisfied (or waived in accordance with Section 9.02).

“Electronic Signature” means an electronic sound, symbol, or process attached to, or associated with, a contract or other record and adopted by a Person with the intent to sign, authenticate or accept such contract or record.

“Environmental Laws” means all laws, rules, regulations, codes, ordinances, orders, decrees, judgments, injunctions, written notices or binding agreements issued, promulgated or entered into by any Governmental Authority, relating to pollution or protection of the environment or natural resources, the management, release or threatened release of any Hazardous Material or to the protection of human health and safety from the presence of Hazardous Materials.

“Environmental Liability” means any liability (including any liability for damages, costs of environmental remediation, fines, penalties or indemnities), of the Borrower or any Subsidiary directly or indirectly resulting from or based upon (a) violation of any Environmental Law, (b) the generation, use, handling, transportation, storage, treatment or disposal of any Hazardous Materials, (c) exposure to any Hazardous Materials, (d) the release or threatened release of any Hazardous Materials into the environment or (e) any contract, agreement or other consensual arrangement pursuant to which liability is assumed or imposed with respect to any of the foregoing.

“Equity Interests” means shares of capital stock, partnership interests, membership interests in a limited liability company, beneficial interests in a trust or other equity ownership interests in a Person, and any warrants, options or other similar rights entitling the holder thereof to purchase or acquire any such equity interest, but excluding any debt securities convertible into any of the foregoing.

“ERISA” means the Employee Retirement Income Security Act of 1974, as amended from time to time, and the rules and regulations promulgated thereunder.

“ERISA Affiliate” means any trade or business (whether or not incorporated) that, together with the Borrower, is treated as a single employer under Section 414(b) or (c) of the Code or Section 4001(14) of ERISA or, solely for purposes of Section 302 of ERISA and Section 412 of the Code, is treated as a single employer under Section 414 of the Code.

“ERISA Event” means (a) any “reportable event”, as defined in Section 4043 of ERISA or the regulations issued thereunder with respect to a Plan (other than an event for which the 30 day notice period is waived); (b) the failure to satisfy the “minimum funding standard” (as defined in Section 412 of the Code or Section 302 of ERISA), whether or not waived; (c) the filing pursuant to Section 412(c) of the Code or Section 302(c) of ERISA of an application for a waiver of the minimum funding standard with respect to any Plan; (d) the incurrence by the Borrower or any of its ERISA Affiliates of any liability under Title IV of ERISA with respect to the termination of any Plan; (e) the receipt by the Borrower or any ERISA Affiliate from the PBGC or a plan administrator of any notice relating to an intention to terminate any Plan or Plans or to appoint a trustee to administer any Plan; (f) the incurrence by the Borrower or any of its ERISA Affiliates of any liability with respect to the withdrawal

or partial withdrawal of the Borrower or any of its ERISA Affiliates from any Plan or Multiemployer Plan; or (g) the receipt by the Borrower or any ERISA Affiliate of any notice, or the receipt by any Multiemployer Plan from the Borrower or any ERISA Affiliate of any notice, concerning the imposition upon the Borrower or any of its ERISA Affiliates of Withdrawal Liability or a determination that a Multiemployer Plan is, or is expected to be, insolvent or in reorganization, within the meaning of Title IV of ERISA.

~~“ESTR” means, with respect to any Business Day, a rate per annum equal to the Euro Short Term Rate for such Business Day published by the ESTR Administrator on the ESTR Administrator’s Website.~~

~~“ESTR Administrator” means the European Central Bank (or any successor administrator of the Euro Short Term Rate).~~

~~“ESTR Administrator’s Website” means the European Central Bank’s website, currently at <http://www.ecb.europa.eu>, or any successor source for the Euro Short Term Rate identified as such by the ESTR Administrator from time to time.~~

“EU Bail-In Legislation Schedule” means the EU Bail-In Legislation Schedule published by the Loan Market Association (or any successor Person), as in effect from time to time.

~~“EURIBO Interpolated Rate” means, at any time, with respect to any Eurocurrency Borrowing denominated in euro and for any Interest Period, the rate per annum (rounded to the same number of decimal places as the LIBO Screen Rate) determined by the Administrative Agent (which determination shall be conclusive and binding absent manifest error) to be equal to the rate that results from interpolating on a linear basis between: (a) the EURIBO Screen Rate for the longest period (for which the EURIBO Screen Rate is available for euro) that is shorter than the Impacted EURIBO Rate Interest Period; and (b) the EURIBO Screen Rate for the shortest period (for which the EURIBO Screen Rate is available for euro) that exceeds the Impacted EURIBO Rate Interest Period, in each case, at such time; provided that, if any EURIBO Interpolated Rate shall be less than 0.00%, such rate shall be deemed to be 0.00% for the purposes of this Agreement.~~

~~“EURIBOEURIBOR Rate” means, with respect to any Eurocurrency Term Benchmark Borrowing denominated in euroEuros and for any Interest Period, the EURIBOEURIBOR Screen Rate at approximately 11:00 a.m., Brussels time, on the Quotation Day for euro; provided that, if the EURIBO Screen Rate shall not be available at such time for, two TARGET Days prior to the commencement of such Interest Period (an “Impacted EURIBO Rate Interest Period”) with respect to euro then the EURIBO Rate shall be the EURIBO Interpolated Rate.~~

~~“EURIBOEURIBOR Screen Rate” means, for any day and time, with respect to any Eurocurrency Borrowing denominated in euro and for any Interest Period, the euro interbank offered rate administered by the European Money Markets Institute (or any other person which takes over the administration of such that rate) for euro for the relevant period displayed (before any correction, recalculation or republication by the administrator) on page EURIBOR01 of the Reuters screen (or any replacement Reuters page which displays that rate) or on the appropriate page of such other information service which publishes that rate from time to time in place of Reuters as published at approximately 11:00 a.m. Brussels time two TARGET Days prior to the commencement of such Interest Period. If such page or service ceases to be available, the Administrative Agent may specify another page or service displaying the relevant rate after consultation with the Borrower. ~~If the EURIBO Screen Rate as so determined would be less than 0.00%, such rate shall be deemed to be 0.00% for the purposes of this Agreement.~~~~

“euroEuro” and/or “€” means the single currency of the Participating Member States.

~~“Eurocurrency”, when used in reference to a currency means an Agreed Currency and when used in reference to any Loan or Borrowing, means that such Loan, or the Loans comprising such Borrowing, bears interest at a rate determined by reference to the Adjusted LIBO Rate or the Adjusted EURIBO Rate.~~

~~“Eurocurrency Payment Office” of the Administrative Agent means, for each Foreign Currency, the office, branch, affiliate or correspondent bank of the Administrative Agent for such currency as specified from time to time by the Administrative Agent to the Borrower and each Lender.~~

“Event of Default” has the meaning assigned to such term in Section 7.01.

“Excluded Accounts” shall have the meaning set forth in the Security Agreement.

“Excluded Assets” means, collectively: (a) motor vehicles and other assets subject to a certificate of title statute except to the extent perfection of a security interest therein may be accomplished by filing of financing statements in appropriate form in a central filing office located in the jurisdiction in which the granting Loan Party is organized, (b) leasehold or other occupancy or use (other than ownership) interests in real property, (c) assets subject to a Lien securing Capital Lease Obligations, purchase money debt obligations or other Indebtedness or obligations of the Borrower or any Subsidiary incurred to finance the acquisition, construction, repair, replacement, lease or improvement of any such assets (including any amendments, modifications, extensions, refinancings, renewals and replacements of any of the foregoing), in each case permitted under this Agreement, if the contract or other agreement in which such Lien is granted prohibits the creation of any other Lien on such assets or requires any consent or establishes any other conditions for or would result in the termination of such contract or other because of an assignment thereof, or a grant of a security interest therein (other than to the extent that any such prohibition or other applicable provisions would be rendered ineffective pursuant to the UCC of any relevant jurisdiction or any other applicable law); provided that such asset (i) will be an Excluded Asset pursuant to this clause (c) only to the extent and for so long as the consequences specified above will result and (ii) will cease to be an Excluded Asset pursuant to this clause (c) and will become subject to the Lien granted hereunder (unless otherwise constituting an Excluded Asset), immediately and automatically, at such time as such consequences will no longer result, (d) any lease, license, permit, contract, property right or agreement to which any Loan Party is a party or any of its rights or interests thereunder or property rights are subject if and only for so long as the grant of a Lien hereunder is prohibited by any law, rule or regulation or order of any Governmental Authority or will constitute or result in a breach, termination or default, or requires any consent not obtained, under any such lease, license, permit, contract, property right or agreement, or the grant of a security interest or lien on such right or interest would result in the abandonment, invalidation or unenforceability of such right or interest (other than to the extent that any such applicable law, rule, regulation or term would be rendered ineffective pursuant to the UCC of any relevant jurisdiction or any other applicable law); provided that such lease, license, permit, contract, property right or agreement will be an Excluded Asset only to the extent and for so long as the consequences specified above will result and will cease to be an Excluded Asset and will become subject to the Lien granted hereunder (unless otherwise constituting an Excluded Asset), immediately and automatically, at such time as such consequences will no longer result, (e) any portion of the issued and outstanding Equity Interests of a Subsidiary not required to be subject to a perfected lien in favor of the Administrative Agent in accordance with Section 5.09(b) hereof, (f) any applications for trademarks or service marks filed in the United States Patent and Trademark Office (“PTO”), or any successor office thereto pursuant to 15 U.S.C. §1051 Section 1(b) unless and until evidence of use of the mark in interstate commerce is submitted to the PTO pursuant to 15 U.S.C. §1051 Section 1(c) or Section 1(d), (g) Equity Interests in entities where a Loan Party holds 50% or less of the outstanding Equity Interests of such entity, to the extent a pledge of such Equity Interests is prohibited by the organizational documents or agreements with the other equity holders of such entity, (h) Excluded Accounts, (i) owned real property, and (j) any particular assets if, in the reasonable judgment of the Administrative Agent and the Borrower, the burden, cost or consequences of creating or perfecting such pledges or security interests in such assets is excessive in relation to the benefits to be obtained therefrom by the Lenders under the Loan Documents;

provided that, “Excluded Assets” shall not include any proceeds, products, substitutions or replacements of Excluded Assets (unless such proceeds, products, substitutions or replacements would otherwise constitute Excluded Assets).

“Excluded Subsidiary” means (i) any Subsidiary that is prohibited from guaranteeing the Secured Obligations pursuant to contractual obligations (solely with respect to any Subsidiary acquired

after the Effective Date, to the extent in existence at the time of acquisition but not entered into in contemplation thereof and, in any such case, other than any contractual obligation in favor of the Borrower or any of its Subsidiaries) or by applicable law, rule or regulation or if such Subsidiary guaranteeing the Secured Obligations would require governmental (including regulatory) consent, approval, license or authorization (unless such consent, approval, license or authorization has been obtained) and (ii) any other Subsidiary with respect to which the Administrative Agent and the Borrower reasonably agree that the burden or cost (as reasonably determined by the Borrower in consultation with the Administrative Agent) of guaranteeing the Secured Obligations shall outweigh the benefits to be obtained by the Lenders therefrom.

“Excluded Swap Obligation” means, with respect to any Loan Party, any Specified Swap Obligation if, and to the extent that, all or a portion of the Guarantee of such Loan Party of, or the grant by such Loan Party of a security interest to secure, such Specified Swap Obligation (or any Guarantee thereof) is or becomes illegal under the Commodity Exchange Act or any rule, regulation or order of the Commodity Futures Trading Commission (or the application or official interpretation of any thereof) by virtue of such Loan Party’s failure for any reason to constitute an ECP at the time the Guarantee of such Loan Party or the grant of such security interest becomes or would become effective with respect to such Specified Swap Obligation. If a Specified Swap Obligation arises under a master agreement governing more than one swap, such exclusion shall apply only to the portion of such Specified Swap Obligation that is attributable to swaps for which such Guarantee or security interest is or becomes illegal.

“Excluded Taxes” means any of the following Taxes imposed on or with respect to a Recipient or required to be withheld or deducted from a payment to a Recipient, (a) Taxes imposed on or measured by net income (however denominated), franchise Taxes, and branch profits Taxes, in each case, (i) imposed as a result of such Recipient being organized under the laws of, or having its principal office or, in the case of any Lender, its applicable lending office located in, the jurisdiction imposing such Tax (or any political subdivision thereof) or (ii) that are Other Connection Taxes, (b) in the case of a Lender, U.S. federal withholding Taxes imposed on amounts payable to or for the account of such Lender with respect to an applicable interest in a Loan, Letter of Credit or Commitment pursuant to a law in effect on the date on which (i) such Lender acquires such interest in the Loan, Letter of Credit or Commitment (other than pursuant to an assignment request by the Borrower under Section 2.19(b)) or (ii) such Lender changes its lending office, except in each case to the extent that, pursuant to Section 2.17, amounts with respect to such Taxes were payable either to such Lender’s assignor immediately before such Lender acquired the applicable interest in a Loan, Letter of Credit or Commitment or to such Lender immediately before it changed its lending office, (c) Taxes attributable to such Recipient’s failure to comply with Section 2.17(f) and (d) any withholding Taxes imposed under FATCA.

“Existing Letters of Credit” means those letters of credit more particularly described on Schedule 2.06.

“FATCA” means Sections 1471 through 1474 of the Code, as of the date of this Agreement (or any amended or successor version that is substantively comparable and not materially more onerous to comply with), any current or future regulations or official interpretations thereof, any agreement entered into pursuant to Section 1471(b)(1) of the Code and any fiscal or regulatory legislation, rules or practices adopted pursuant to any intergovernmental agreement, treaty or convention among Governmental Authorities and implementing such Sections of the Code.

“FCA” has the meaning assigned to such term in Section 1.05.

“FDA” has the meaning assigned to such term in Section 3.22(g).

“Federal Funds Effective Rate” means, for any day, the rate calculated by the NYFRB based on such day’s federal funds transactions by depository institutions, as determined in such manner as shall be set forth on the ~~NYRB’s~~**NYFRB’s** Website from time to time, and published on the next succeeding Business Day by the NYFRB as the effective federal funds rate; provided that, if the Federal Funds Effective Rate as so determined would be less than zero, such rate shall be deemed to be zero for the purposes of this Agreement.

“Federal Reserve Board” means the Board of Governors of the Federal Reserve System of the United States of America.

“Final Release Conditions” has the meaning assigned to such term in Section 9.14(c).

“Financial Officer” means the chief financial officer, principal accounting officer, treasurer or controller of the Borrower or any other Person designated as a “Financial Officer” by any of the foregoing officers in writing to the Administrative Agent and reasonably acceptable to the Administrative Agent.

“Financials” means the annual or quarterly financial statements, and accompanying certificates and other documents, of the Borrower and its Subsidiaries required to be delivered pursuant to Section 5.01(a) or 5.01(b).

“First Amendment Effective Date” means February 22, 2021.

“First Tier Foreign Subsidiary” means each Foreign Subsidiary with respect to which any one or more of the Borrower and its Domestic Subsidiaries directly owns or Controls more than 50% of such Foreign Subsidiary’s issued and outstanding Equity Interests.

“Floor” means the benchmark rate floor, if any, provided in this Agreement initially (as of the execution of this Agreement, the modification, amendment or renewal of this Agreement or otherwise) with respect to the ~~LIBO Rate or the EURIBO~~Adjusted Term SOFR Rate, the Adjusted EURIBOR Rate, each Adjusted Daily Simple RFR or the Central Bank Rate, as applicable. For the avoidance of doubt the initial floor for each of Adjusted Term SOFR Rate, Adjusted EURIBOR Rate, each Adjusted Daily Simple RFR or the Central Bank Rate shall be 0.00%.

“Foreign Currencies” means Agreed Currencies other than Dollars.

~~“Foreign Currency Amount” of any amount of any Foreign Currency means, at the time of determination thereof, (a) if such amount is expressed in such Foreign Currency, such amount and (b) if such amount is expressed in Dollars, the equivalent of such amount in such Foreign Currency determined by using the rate of exchange for the purchase of such Foreign Currency with Dollars last provided (either by publication or otherwise provided to the Administrative Agent) by the applicable Reuters source on the Business Day (New York City time) immediately preceding the date of determination or if such service ceases to be available or ceases to provide a rate of exchange for the purchase of such Foreign Currency with Dollars, as provided by such other publicly available information service which provides that rate of exchange at such time in place of Reuters chosen by the Administrative Agent in its sole discretion (or if such service ceases to be available or ceases to provide such rate of exchange, the equivalent of such amount in such Foreign Currency as determined by the Administrative Agent using any method of determination it deems appropriate in its sole discretion).~~

“Foreign Currency LC Exposure” means, at any time, the sum of (a) the Dollar Amount of the aggregate undrawn and unexpired amount of all outstanding Foreign Currency Letters of Credit at such time plus (b) the aggregate principal Dollar Amount of all LC Disbursements in respect of Foreign Currency Letters of Credit that have not yet been reimbursed at such time.

“Foreign Currency Letter of Credit” means a Letter of Credit denominated in a Foreign Currency.

“Foreign Currency Payment Office” of the Administrative Agent shall mean, for each Foreign Currency, the office, branch, affiliate or correspondent bank of the Administrative Agent for such currency as specified from time to time by the Administrative Agent to the Borrower and each Lender.

“Foreign Currency Sublimit” means \$15,000,000.

“Foreign Lender” means (a) if the Borrower is a U.S. Person, a Lender that is not a U.S. Person, and (b) if the Borrower is not a U.S. Person, a Lender that is resident or organized under the laws of a jurisdiction other than that in which the Borrower is resident for tax purposes.

“Foreign Subsidiary” means any Subsidiary which is not a Domestic Subsidiary.

“GAAP” means generally accepted accounting principles in the United States of America.

“Governmental Authority” means the government of the United States of America, any other nation or any political subdivision thereof, whether state or local, and any agency, authority, instrumentality, regulatory body, court, central bank or other entity exercising executive, legislative, judicial, taxing, regulatory or administrative powers or functions of or pertaining to government.

“Guarantee” of or by any Person (the “guarantor”) means any obligation, contingent or otherwise, of the guarantor guaranteeing or having the economic effect of guaranteeing any Indebtedness or other obligation of any other Person (the “primary obligor”) in any manner, whether directly or indirectly, and including any obligation of the guarantor, direct or indirect, (a) to purchase or pay (or advance or supply funds for the purchase or payment of) such Indebtedness or other obligation or to purchase (or to advance or supply funds for the purchase of) any security for the payment thereof, (b) to purchase or lease property, securities or services for the purpose of assuring the owner of such Indebtedness or other obligation of the payment thereof, (c) to maintain working capital, equity capital or any other financial statement condition or liquidity of the primary obligor so as to enable the primary obligor to pay such Indebtedness or other obligation or (d) as an account party in respect of any letter of credit or letter of guaranty issued to support such Indebtedness or obligation; provided, that the term “Guarantee” shall not include endorsements for collection or deposit in the ordinary course of business. The amount of any Guarantee shall be deemed to be an amount equal to the lesser of (a) the stated or determinable amount of the primary payment obligation in respect of which such Guarantee is made and (b) the maximum amount for which the guaranteeing Person may be liable pursuant to the terms of the instrument embodying such Guarantee, unless such primary payment obligation and the maximum amount for which such guaranteeing Person may be liable are not stated or determinable, in which case the amount of the Guarantee shall be such guaranteeing Person’s maximum reasonably possible liability in respect thereof as reasonably determined by the Borrower in good faith.

“Hazardous Materials” means all explosive or radioactive substances or wastes and all hazardous or toxic substances, wastes or other pollutants, including petroleum or petroleum distillates, asbestos or asbestos containing materials, polychlorinated biphenyls, radon gas, infectious or medical wastes and all other substances or wastes of any nature regulated pursuant to any Environmental Law.

“Health Care Laws” means (a) all laws related to (i) health care fraud and abuse, including the Federal Anti-Kickback Statute (42 U.S.C. § 1320a-7b), the Federal False Claims Act (31 U.S.C. §§ 3729, et seq.), the Federal Civil Monetary Penalties Law (42 U.S.C. § 1320a-7a), the Federal Program Fraud Civil Remedies Act (31 U.S.C. § 3801 et seq.), the Federal Health Care Fraud law (18 U.S.C. § 1347), the criminal false claims statutes (e.g., 18 U.S.C. §§ 287 and 1001), the Physician Payment Sunshine Act (42 U.S.C. § 1320a-7h), the Federal Health Care Program Overpayment Statute (42 U.S.C. § 1320a-7k(d)), the Medicare Secondary Payor Statute (42 U.S.C. § 1395y(b)), the Health Insurance portability and Accountability Act of 1996 (42 U.S.C. § 1320d et seq.), as amended by the Health Information Technology for Economic and Clinical Health Act of 2009 (42 U.S.C. §§ 17921 et seq.), the exclusion laws (42 U.S.C. § 1320a-7) and any similar state laws, (ii) the safety, efficacy, development, manufacture, testing, storage, transportation, distribution, supply, packaging, holding, import or export, or sale of pharmaceutical products, including, without limitation, the U.S. Federal Food, Drug and Cosmetic Act (21 U.S.C. § 301 et seq.), the Controlled Substances Act (21 U.S.C. § 801 et seq.), the Public Health Service Act (42 U.S.C. § 201 et seq.), the Food and Drugs Act, R.S. 1985, c. F-27 and Food and Drug Regulations, C.R.C., ch. 870, and the regulations promulgated thereunder, and (iii) good manufacturing practices and good distribution practices; (b) the Medicare statute (Title XVIII of the Social Security Act); (c) the Medicaid Statute (Title XIX of the Social Security Act) and (d) any similar laws of any Governmental Authority, and the regulations promulgated pursuant to such laws, including the collection and reporting requirements, and the processing of any applicable rebate, chargeback or

adjustment, under applicable rules and regulations relating to the Medicaid Drug Rebate Program (42 U.S.C. § 1396r-8) and any state supplemental rebate program, Medicare average sales price reporting (42 U.S.C. § 1395w-3a), the Public Health Service Act (42 U.S.C. § 256b), the VA Federal Supply Schedule (38 U.S.C. § 8126) or under any state pharmaceutical assistance program or U.S. Department of Veterans Affairs agreement, and any successor government programs.

“Health Care Permits” has the meaning assigned to such term in Section 3.22(b).

“Hostile Acquisition” means (a) the acquisition of the Equity Interests of a Person through a tender offer or similar solicitation of the owners of such Equity Interests which has not been approved (prior to such acquisition) by the board of directors (or any other applicable governing body) of such Person or by similar action if such Person is not a corporation and (b) any such acquisition as to which such approval has been withdrawn.

~~“IBA” has the meaning assigned to such term in Section 1.05.~~

~~“Impacted EURIBO Rate Interest Period” has the meaning assigned to such term in the definition of “EURIBO Rate”.~~

~~“Impacted LIBO Rate Interest Period” has the meaning assigned to such term in the definition of “LIBO Rate”.~~

“Increasing Lender” has the meaning assigned to such term in Section 2.20.

“Incremental Term Loan” has the meaning assigned to such term in Section 2.20.

“Incremental Term Loan Amendment” has the meaning assigned to such term in Section 2.20.

“Indebtedness” of any Person means, without duplication, (a) all obligations of such Person for borrowed money, (b) the principal amount of all obligations of such Person evidenced by bonds, debentures, notes or similar instruments, (c) all obligations of such Person upon which interest charges are customarily paid, (d) all obligations of such Person under conditional sale or other title retention agreements relating to property acquired by such Person, (e) all obligations of such Person in respect of the deferred purchase price of property or services (excluding (x) trade accounts payable in the ordinary course of business, (y) any earn-out, deferred or similar obligations until such obligation becomes a liability on the balance sheet of such Person in accordance with GAAP and if not paid after becoming due and payable and (z) expenses accrued in the ordinary course of business), (f) all Indebtedness of others secured by (or for which the holder of such Indebtedness has an existing right, contingent or otherwise, to be secured by) any Lien on property owned or acquired by such Person, whether or not the Indebtedness secured thereby has been assumed; provided, that, if such Person has not assumed or otherwise become liable in respect of such Indebtedness, such obligations shall be deemed to be in an amount equal to the lesser of (i) the amount of such Indebtedness and (ii) the fair market value of such property at the time of determination (in the Borrower’s good faith estimate), (g) all Guarantees by such Person of Indebtedness of others, (h) all Capital Lease Obligations of such Person, (i) all obligations, contingent or otherwise, of such Person as an account party in respect of letters of credit and letters of guaranty, (j) all obligations, contingent or otherwise, of such Person in respect of bankers’ acceptances, and (k) all obligations of such Person under Sale and Leaseback Transactions. The Indebtedness of any Person shall include the Indebtedness of any other entity (including any partnership in which such Person is a general partner) to the extent such Person is liable therefor by operation of law as a result of such Person’s ownership interest in such entity, except to the extent the terms of such Indebtedness provide that such Person is not liable therefor. The amount of Indebtedness (including any Guarantees constituting Indebtedness) for which recourse is limited either to a specified amount or to an identified asset of such Person shall be deemed to be equal to the lesser of (x) such specified amount and (y) the fair market value of such identified asset as determined by such Person in good faith. Notwithstanding anything to the contrary in this definition, the term “Indebtedness” shall not include (i) deferred or prepaid revenue, (ii) purchase price holdbacks in respect of a portion of the purchase price of an asset to satisfy warranty or other unperformed obligations of the respective seller, (iii) obligations under Sale and

Leaseback Transactions to the extent such obligations are not reflected as a liability on the consolidated balance sheet of the Borrower or (iv) obligations under any Swap Agreements. Notwithstanding anything to the contrary in the foregoing, any Permitted Bond Hedge Transaction, any Permitted Warrant Transaction, and any obligations thereunder, in each case, shall not constitute Indebtedness of Borrower.

“Indemnified Taxes” means (a) Taxes, other than Excluded Taxes, imposed on or with respect to any payment made by or on account of any obligation of any Loan Party under any Loan Document and (b) to the extent not otherwise described in clause (a) hereof, Other Taxes.

“Indemnitee” has the meaning assigned to such term in Section 9.03(c).

“Ineligible Institution” has the meaning assigned to such term in Section 9.04(b).

“Information” has the meaning assigned to such term in Section 9.12.

“Interest Election Request” means a request by the Borrower to convert or continue a Borrowing in accordance with Section 2.08, which shall be substantially in the form attached hereto as Exhibit G-2 or any other form approved by the Administrative Agent.

“Interest Payment Date” means (a) with respect to any ABR Loan (other than a Swingline Loan), the last day of each March, June, September and December and the Maturity Date, (b) with respect to any ~~Eurocurrency~~RFR Loan, (1) each date that is on the numerically corresponding day in each calendar month that is one month after the Borrowing of such RFR Loan (or, if there is no such numerically corresponding day in such month, then the last day of such month) and (2) the Maturity Date, (c) with respect to any Term Benchmark Loan, the last day of each Interest Period applicable to the Borrowing of which such Loan is a part and, in the case of a ~~Eurocurrency~~Term Benchmark Borrowing with an Interest Period of more than three months’ duration, each day prior to the last day of such Interest Period that occurs at intervals of three months’ duration after the first day of such Interest Period and the Maturity Date and ~~(ed)~~ with respect to any Swingline Loan, the day that such Loan is required to be repaid and the Maturity Date.

“Interest Period” means with respect to any ~~Eurocurrency~~Term Benchmark Borrowing, the period commencing on the date of such Borrowing and ending on the numerically corresponding day in the calendar month that is one, ~~two (if available), three or six months thereafter, as the Borrower may elect~~ month thereafter (subject to the availability for the Benchmark applicable to the relevant Loan or Commitment for any Agreed Currency); provided, that (i) if any Interest Period would end on a day other than a Business Day, such Interest Period shall be extended to the next succeeding Business Day unless such next succeeding Business Day would fall in the next calendar month, in which case such Interest Period shall end on the next preceding Business Day ~~and~~, (ii) any Interest Period ~~pertaining to a Eurocurrency Borrowing~~ that commences on the last Business Day of a calendar month (or on a day for which there is no numerically corresponding day in the last calendar month of such Interest Period) shall end on the last Business Day of the last calendar month of such Interest Period ~~and (iii) no tenor that has been removed from this definition pursuant to Section 2.14(e) shall be available for specification in such Borrowing Request or Interest Election Request~~. For purposes hereof, the date of a Borrowing initially shall be the date on which such Borrowing is made and thereafter shall be the effective date of the most recent conversion or continuation of such Borrowing.

“IRS” means the United States Internal Revenue Service.

“ISDA Definitions” means the 2006 ISDA Definitions published by the International Swaps and Derivatives Association, Inc. or any successor thereto, as amended or supplemented from time to time, or any successor definitional booklet for interest rate derivatives published from time to time by the International Swaps and Derivatives Association, Inc. or such successor thereto.

“Issuing Bank” means JPMorgan Chase Bank, N.A., Citibank, N.A. and any other Lender that agrees to act as an Issuing Bank, each in its capacity as the issuer of Letters of Credit hereunder, and its successors in such capacity as provided in Section 2.06(i). Any Issuing Bank may, in its discretion, arrange for one or more Letters of Credit to be issued by Affiliates of such Issuing Bank, in which case

the term “Issuing Bank” shall include any such Affiliate with respect to Letters of Credit issued by such Affiliate. Each reference herein to the “Issuing Bank” in connection with a Letter of Credit or other matter shall be deemed to be a reference to the relevant Issuing Bank with respect thereto, and, further, references herein to “the Issuing Bank” shall be deemed to refer to each of the Issuing Banks or the relevant Issuing Bank, as the context requires.

“LC Collateral Account” has the meaning assigned to such term in Section 2.06(j).

“LC Disbursement” means a payment made by the Issuing Bank pursuant to a Letter of Credit.

“LC Exposure” means, at any time, the sum of (a) the aggregate undrawn ~~Dollar Amount~~ amount of all outstanding Letters of Credit at such time plus (b) the aggregate ~~Dollar Amount~~ amount of all LC Disbursements that have not yet been reimbursed by or on behalf of the Borrower at such time. The LC Exposure of any Lender at any time shall be its Applicable Percentage of the LC Exposure at such time. For all purposes of this Agreement, if on any date of determination a Letter of Credit has expired by its terms but any amount may still be drawn thereunder by reason of the operation of Article 29(a) of the Uniform Customs and Practice for Documentary Credits, International Chamber of Commerce Publication No. 600 (or such later version thereof as may be in effect at the applicable time) or Rule 3.13 or Rule 3.14 of the International Standby Practices, International Chamber of Commerce Publication No. 590 (or such later version thereof as may be in effect at the applicable time) or similar terms of the Letter of Credit itself, or if compliant documents have been presented but not yet honored, such Letter of Credit shall be deemed to be “outstanding” and “undrawn” in the amount so remaining available to be paid, and the obligations of the Borrower and each Lender shall remain in full force and effect until the relevant Issuing Bank and the Lenders shall have no further obligations to make any payments or disbursements under any circumstances with respect to any Letter of Credit.

“Lender Parent” means, with respect to any Lender, any Person as to which such Lender is, directly or indirectly, a subsidiary.

“Lender-Related Person” has the meaning assigned to such term in Section 9.03(b).

“Lenders” means the Persons listed on Schedule 2.01 and any other Person that shall have become a Lender hereunder pursuant to Section 2.20 or pursuant to an Assignment and Assumption or otherwise, other than any such Person that ceases to be a party hereto pursuant to an Assignment and Assumption or otherwise. Unless the context otherwise requires, the term “Lenders” includes the Swingline Lender and the Issuing Bank.

“Letter of Credit” means any letter of credit issued pursuant to this Agreement and shall include the Existing Letters of Credit. A Letter of Credit may be issued in Dollars or in any Foreign Currency.

“Letter of Credit Agreement” has the meaning assigned to such term in Section 2.06(b).

“Leverage Ratio” has the meaning assigned to such term in Section 6.12(a).

“Liabilities” means any losses, claims (including intraparty claims), demands, damages or liabilities of any kind.

~~“LIBO Interpolated Rate” means, at any time, with respect to any Eurocurrency Borrowing denominated in Dollars or Pounds Sterling and for any Interest Period, the rate per annum (rounded to the same number of decimal places as the LIBO Screen Rate) determined by the Administrative Agent (which determination shall be conclusive and binding absent manifest error) to be equal to the rate that results from interpolating on a linear basis between: (a) the LIBO Screen Rate for the longest period (for which the LIBO Screen Rate is available for the applicable currency) that is shorter than the Impacted LIBO Rate Interest Period; and (b) the LIBO Screen Rate for the shortest period (for which the LIBO Screen Rate is available for the applicable currency) that exceeds the Impacted LIBO Rate Interest Period, in each case, at such time;~~

~~provided that if any LIBO Interpolated Rate shall be less than 0.00%, such rate shall be deemed to be 0.00% for the purposes of this Agreement.~~

~~“LIBO Rate” means, with respect to any Eurocurrency Borrowing denominated in Dollars or Pounds Sterling and for any Interest Period, the LIBO Screen Rate at approximately 11:00 a.m., London time, on the Quotation Day for such Agreed Currency; provided that if the LIBO Screen Rate shall not be available at such time for such Interest Period (an “Impacted LIBO Rate Interest Period”) with respect to such Agreed Currency then the LIBO Rate shall be the LIBO Interpolated Rate.~~

~~“LIBO Screen Rate” means, for any day and time, with respect to any Eurocurrency Borrowing denominated in Dollars or Pounds Sterling and for any Interest Period, the London interbank offered rate as administered by ICE Benchmark Administration (or any other Person that takes over the administration of such rate) for such Agreed Currency for a period equal in length to such Interest Period as displayed on such day and time on pages LIBOR01 or LIBOR02 of the Reuters screen that displays such rate (or, in the event such rate does not appear on a Reuters page or screen, on any successor or substitute page on such screen that displays such rate, or on the appropriate page of such other information service that publishes such rate from time to time as selected by the Administrative Agent in its reasonable discretion); provided that if the LIBO Screen Rate as so determined would be less than 0.00%, such rate shall be deemed to be 0.00% for the purposes of this Agreement.~~

“Lien” means, with respect to any asset, (a) any mortgage, deed of trust, lien, pledge, hypothecation, encumbrance, charge or security interest in, on or of such asset, (b) the interest of a vendor or a lessor under any conditional sale agreement, capital lease or title retention agreement (or any financing lease having substantially the same economic effect as any of the foregoing) relating to such asset and (c) in the case of securities, any purchase option, call or similar right of a third party with respect to such securities.

“Liquidity” means, at any time, the sum of all cash, cash equivalents and marketable investments, as reflected on the consolidated balance sheet of the Borrower as of such date.

“LLC” means any Person that is a limited liability company under the laws of its jurisdiction of formation.

“Loan Documents” means this Agreement (including schedules and exhibits hereto), any promissory notes issued pursuant to Section 2.10(e), any Letter of Credit applications, any Letter of Credit Agreement, the Collateral Documents, the Subsidiary Guaranty, and all other agreements, instruments, documents and certificates identified in Section 4.01 executed and delivered to, or in favor of, the Administrative Agent or any Lenders. Any reference in this Agreement or any other Loan Document to a Loan Document shall include all appendices, exhibits or schedules thereto, and all amendments, restatements, supplements or other modifications thereto, and shall refer to this Agreement or such Loan Document as the same may be in effect at any and all times such reference becomes operative.

“Loan Parties” means, collectively, the Borrower and the Subsidiary Guarantors.

“Loans” means the loans made by the Lenders to the Borrower pursuant to this Agreement.

~~“Local Time” means (i) New York City time in the case of a Loan, Borrowing or LC Disbursement denominated in Dollars and (ii) local time in the case of a Loan, Borrowing or LC Disbursement denominated in a Foreign Currency (it being understood that such local time shall mean (a) London, England time with respect to any Foreign Currency (other than euro) and (b) Brussels, Belgium time with respect to euro, in each case of the foregoing clauses (a) and (b) unless otherwise notified by the Administrative Agent).~~

“Margin Stock” means margin stock within the meaning of Regulations T, U and X, as applicable.

“Material Adverse Effect” means a material adverse effect on (a) the business, assets, operations or financial condition of the Borrower and the Subsidiaries taken as a whole, (b) the ability of the Borrower to perform any of its material obligations under this Agreement or, (c) the ability of the Loan Parties (taken as a whole) to perform their respective material obligations under the Loan Documents (taken as a whole) or (d) the validity or enforceability of this Agreement, any Letter of Credit Agreement, the Collateral Documents, the Subsidiary Guaranty or the material rights or remedies of the Administrative Agent and the Lenders thereunder.

“Material Domestic Subsidiary” means each Domestic Subsidiary (i) which, as of the most recent fiscal quarter of the Borrower, for the period of four consecutive fiscal quarters then ended, for which financial statements have been delivered pursuant to Section 5.01(a) or (b) (or, if prior to the date of the delivery of the first financial statements to be delivered pursuant to Section 5.01(a) or (b), the most recent financial statements referred to in Section 3.04(a)), contributed greater than five percent (5.0%) of Consolidated EBITDA for such period or (ii) which contributed greater than five percent (5.0%) of Consolidated Total Assets as of such date.

“Material Foreign Subsidiary” means each Foreign Subsidiary (i) which, as of the most recent fiscal quarter of the Borrower, for the period of four consecutive fiscal quarters then ended, for which financial statements have been delivered pursuant to Section 5.01(a) or (b) (or, if prior to the date of the delivery of the first financial statements to be delivered pursuant to Section 5.01(a) or (b), the most recent financial statements referred to in Section 3.04(a)), contributed greater than five percent (5.0%) of Consolidated EBITDA for such period or (ii) which contributed greater than five percent (5.0%) of Consolidated Total Assets as of such date.

“Material Indebtedness” means Indebtedness (other than the Loans and Letters of Credit), or obligations in respect of one or more Swap Agreements, of any one or more of the Borrower and its Subsidiaries in an aggregate principal amount exceeding \$10,000,000. For purposes of determining Material Indebtedness, the “principal amount” of the obligations of the Borrower or any Subsidiary in respect of any Swap Agreement at any time shall be the maximum aggregate amount (giving effect to any netting agreements) that the Borrower or such Subsidiary would be required to pay if such Swap Agreement were terminated at such time.

“Material Subsidiary” means each Material Domestic Subsidiary and each Material Foreign Subsidiary.

“Maturity Date” means the date that is 364 days from the **First/Second** Amendment Effective Date; provided, however, if such date is not a Business Day, the Maturity Date shall be the next preceding Business Day.

“Maximum Rate” has the meaning assigned to such term in Section 9.16.

“Moody’s” means Moody’s Investors Service, Inc.

“Multiemployer Plan” means a multiemployer plan as defined in Section 4001(a)(3) of ERISA.

“Non-Consenting Lender” has the meaning assigned to such term in Section 9.02(e).

“NYFRB” means the Federal Reserve Bank of New York.

“NYFRB’s Website” means the website of the NYFRB at <http://www.newyorkfed.org>, or any successor source.

“NYFRB Rate” means, for any day, the greater of (a) the Federal Funds Effective Rate in effect on such day and (b) the Overnight Bank Funding Rate in effect on such day (or for any day that is not a Business Day, for the immediately preceding Business Day); provided that if none of such rates are published for any day that is a Business Day, the term “NYFRB Rate” means the rate for a federal funds transaction quoted at 11:00 a.m., ~~New York City time~~, on such day received by the Administrative Agent from a federal funds broker of recognized standing selected by it; provided, further, that if any of the aforesaid rates as so determined would be less than zero, such rate shall be deemed to be zero for purposes of this Agreement.

“Obligations” means all unpaid principal of and accrued and unpaid interest on the Loans, all LC Exposure, all accrued and unpaid fees and all expenses, reimbursements, indemnities and other obligations and indebtedness (including interest and fees accruing during the pendency of any bankruptcy, insolvency, receivership or other similar proceeding, regardless of whether allowed or allowable in such proceeding), obligations and liabilities of any of the Borrower and its Subsidiaries to any of the Lenders, the Administrative Agent, the Issuing Bank or any indemnified party, individually or collectively, existing on the Effective Date or arising thereafter, direct or indirect, joint or several, absolute or contingent, matured or unmatured, liquidated or unliquidated, secured or unsecured, arising by contract, operation of law or otherwise, arising or incurred under this Agreement or any of the other Loan Documents or in respect of any of the Loans made or reimbursement or other obligations incurred or any of the Letters of Credit or other instruments at any time evidencing any thereof.

“OFAC” means the Office of Foreign Assets Control of the U.S. Department of the Treasury.

~~“Other Agreed Currency” means Agreed Currencies other than Dollars, Pounds Sterling and euro.~~

“Other Connection Taxes” means, with respect to any Recipient, Taxes imposed as a result of a present or former connection between such Recipient and the jurisdiction imposing such Tax (other than connections arising from such Recipient having executed, delivered, become a party to, performed its obligations under, received payments under, received or perfected a security interest under, engaged in any other transaction pursuant to or enforced any Loan Document, or sold or assigned an interest in any Loan, Letter of Credit or Loan Document).

“Other Taxes” means all present or future stamp, court or documentary, intangible, recording, filing or similar Taxes that arise from any payment made under, from the execution, delivery, performance, enforcement or registration of, from the receipt or perfection of a security interest under, or otherwise with respect to, any Loan Document, except any such Taxes that are Other Connection Taxes imposed with respect to an assignment (other than an assignment made pursuant to Section 2.19).

“Overnight Bank Funding Rate” means, for any day, the rate comprised of both overnight federal funds and overnight eurodollar ~~borrowings~~ transactions denominated in Dollars by U.S.-managed banking offices of depository institutions, as such composite rate shall be determined by the NYFRB as set forth on the NYFRB’s Website from time to time, and published on the next succeeding Business Day by the NYFRB as an overnight bank funding rate.

“Overnight Foreign Currency Rate” means, for any ~~amount payable~~ day, (a) with respect to any amount denominated in Dollars, the NYFRB Rate and (b) with respect to any amount denominated in a Foreign Currency, ~~the an overnight~~ rate of interest per annum ~~as determined by the Administrative Agent at which overnight or weekend deposits in the relevant currency (or if such amount due remains unpaid for more than three (3) Business Days, then for such other period of time as the Administrative Agent may elect) for delivery in immediately available and freely transferable funds would be offered by the Administrative Agent to major banks in the interbank market upon request of such major banks for the relevant currency as determined above and in an amount comparable to the unpaid principal amount of the related Credit Event, plus any taxes, levies, imposts, duties, deductions, charges or withholdings imposed upon, or charged to, the Administrative Agent by any relevant correspondent bank in respect of such amount in such~~

~~relevant currency~~ or the Issuing Banks, as the case may be, in accordance with banking industry rules on interbank compensation.

“Participant” has the meaning assigned to such term in Section 9.04(c).

“Participant Register” has the meaning assigned to such term in Section 9.04(c).

“Participating Member State” means any member state of the European Union that adopts or has adopted the euro as its lawful currency in accordance with legislation of the European Union relating to economic and monetary union.

“Patriot Act” means the USA PATRIOT Act of 2001.

“Payment” has the meaning assigned to it in Section 8.06(c).

“Payment Notice” has the meaning assigned to it in Section 8.06(c).

“PBGC” means the Pension Benefit Guaranty Corporation referred to and defined in ERISA and any successor entity performing similar functions.

“Permitted Acquisition” means any Acquisition (but excluding in any event a Hostile Acquisition) if, at the time of and immediately after giving effect thereto, (a) no Default has occurred and is continuing or would arise immediately after giving effect (including giving effect on a pro forma basis) thereto, (b) the business of the Person whose Equity Interests are being acquired or the division or line of business being acquired or relating to the assets acquired would be permitted under Section 6.03(b), (c) all actions required to be taken with respect to such acquired or newly formed Subsidiary under Section 5.09 shall have been taken, (d) the Borrower and the Subsidiaries are in compliance, on a pro forma basis, with the covenants contained in Section 6.12 on a pro forma basis immediately after giving effect to such Acquisition in accordance with the provisions set forth in Section 1.04(b), and, if the aggregate Acquisition Consideration in respect of such acquisition exceeds \$25,000,000, the Borrower shall have delivered to the Administrative Agent a certificate of a Financial Officer of the Borrower, in a form reasonably satisfactory to the Administrative Agent, certifying that the applicable requirements set forth in this definition have been satisfied with respect to such Acquisition, together, with reasonably detailed calculations demonstrating satisfaction of the requirements set forth in this clause (c) and in clause (e) below, as applicable and (e) in the case of an Acquisition involving a Loan Party, such Loan Party is the surviving entity of any applicable merger and/or consolidation.

“Permitted Bond Hedge Transaction” means any call or capped call option (or substantively equivalent derivative transaction) relating to Borrower’s common stock (or other securities or property following a merger event or other change of the common stock of Borrower) purchased by Borrower in connection with the issuance of any Permitted Convertible Indebtedness; provided that the purchase price for such Permitted Bond Hedge Transaction, less the proceeds received by Borrower from the sale of any related Permitted Warrant Transaction, does not exceed the net proceeds received by Borrower from the issuance of such Permitted Convertible Indebtedness in connection with such Permitted Bond Hedge Transaction.

“Permitted Convertible Indebtedness” means any unsecured notes issued by Borrower that are convertible into a fixed number (subject to customary anti-dilution adjustments, “make-whole” increases and other customary changes thereto) of shares of common stock of Borrower (or other securities or property following a merger event or other change of the common stock of Borrower), cash or any combination thereof (with the amount of such cash or such combination determined by reference to the market price of such common stock or such other securities); provided that, the Indebtedness thereunder must satisfy each of the following conditions: (i) such Indebtedness is not guaranteed by any Subsidiary of Borrower, (ii) any cross-default or cross-acceleration event of default (each howsoever defined) provision contained therein that relates to indebtedness or other payment obligations of Borrower or any Borrower (such indebtedness or other payment obligations, a “Cross-Default Reference Obligation”) contains a cure period of at least thirty (30) calendar days (after written notice to the issuer of such Indebtedness by the trustee or to such issuer and such trustee by holders of at least 25% in

aggregate principal amount of such Indebtedness then outstanding) before a default, event of default, acceleration or other event or condition under such Cross-Default Reference Obligation results in an event of default under such cross-default or cross-acceleration provision and (iii) the terms, conditions and covenants of such Indebtedness must be customary for convertible Indebtedness of such type (as determined by the board of directors of Borrower, or a committee thereof, in good faith).

“Permitted Encumbrances” means:

(a) Liens imposed by law for Taxes that have not yet been paid (to the extent such non-payment does not violate Section 5.04) or are being contested in compliance with Section 5.04 and Liens for unpaid utility charges;

(b) carriers’, warehousemen’s, mechanics’, materialmen’s, repairmen’s, supplier’s and other like Liens imposed by law, arising in the ordinary course of business and securing obligations that are not overdue by more than sixty (60) days or are being contested in compliance with Section 5.04;

(c) pledges and deposits made in the ordinary course of business in connection with workers’ compensation, unemployment insurance and other social security or retirement benefits laws, to secure liability to insurance carriers under insurance of self-insurance arrangements or regulations or employment laws or to secure other public, statutory or regulatory regulations;

(d) pledges and deposits to secure the performance of bids, trade contracts, government contracts, leases, statutory obligations, customer deposit and advances, surety, customs and appeal bonds, performance and completion bonds and other obligations of a like nature, in each case in the ordinary course of business, and Liens to secure letters of credit or bank guarantees supporting any of the foregoing;

(e) judgment Liens in respect of judgments that do not constitute an Event of Default under Section 7.01(k) or Liens securing appeal or surety bonds related to such judgments;

(f) easements, zoning restrictions, rights-of-way and similar charges or encumbrances on real property imposed by law or arising in the ordinary course of business that do not secure any monetary obligations and do not materially detract from the value of the affected property or materially interfere with the ordinary conduct of business of the Borrower and its Subsidiaries, taken as a whole;

(g) leases, licenses, subleases or sublicenses granted (i) to others not adversely interfering in any material respect with the business of the Borrower and its Subsidiaries as conducted at the time granted, taken as a whole, (ii) between or among any of the Loan Parties or any of their Subsidiaries or (iii) granted to other Persons and permitted under Section 6.03;

(h) Liens in favor of a banking or other financial institution arising as a matter of law or in the ordinary course of business under customary general terms and conditions encumbering deposits or other funds maintained with a financial institution (including the right of setoff) and that are within the general parameters customary in the banking industry or arising pursuant to such banking institution’s general terms and conditions;

(i) Liens on specific items of inventory or other goods (other than fixed or capital assets) and proceeds thereof of any Person securing such Person’s obligations in respect of bankers’ acceptances or letters of credit issued or created for the account of such Person to facilitate the purchase, shipment or storage of such inventory or other goods in the ordinary course of business;

(j) Liens in favor of customs and revenue authorities arising as a matter of law to secure payment of customs duties in connection with the importation of goods in the ordinary course of business so long as such Liens only cover the related goods;

(k) Liens encumbering reasonable customary initial deposits and margin deposits and similar Liens attaching to commodity trading accounts or other brokerage accounts incurred in the ordinary course of business and not for speculative purposes;

(l) any interest or title of a landlord, lessor or sublessor under any lease of real estate or any Lien affecting solely the interest of the landlord, lessor or sublessor;

(m) purported Liens evidenced by the filing of precautionary UCC financing statements or similar filings relating to operating leases of personal property entered into by the Borrower or any of its Subsidiaries in the ordinary course of business;

(n) any interest or title of a licensor under any license or sublicense entered into by the Borrower or any Subsidiary as a licensee or sublicensee (A) existing on the Effective Date or (B) in the ordinary course of its business; and

(o) with respect to any real property, immaterial title defects or irregularities that do not, individually or in the aggregate, materially impair the use of such real property.

“Permitted Investments” means:

(a) direct obligations of, or obligations the principal of and interest on which are unconditionally guaranteed by, the United States of America (or by any agency thereof to the extent such obligations are backed by the full faith and credit of the United States of America), in each case maturing within one year from the date of acquisition thereof;

(b) investments in commercial paper maturing within 270 days from the date of acquisition thereof and having, at such date of acquisition, the highest credit rating obtainable from S&P or from Moody’s;

(c) investments in certificates of deposit, banker’s acceptances and time or demand deposits maturing within 180 days from the date of acquisition thereof issued or guaranteed by or placed with, and money market deposit accounts issued or offered by, any domestic office of any commercial bank organized under the laws of the United States of America or any State thereof which has a combined capital and surplus and undivided profits of not less than \$500,000,000;

(d) fully collateralized repurchase agreements with a term of not more than thirty (30) days for securities described in clause (a) above and entered into with a financial institution satisfying the criteria described in clause (c) above at the date of such acquisition;

(e) money market funds that, at such date of acquisition) (i) comply with the criteria set forth in SEC Rule 2a-7 under the Investment Company Act of 1940, (ii) are rated AAA by S&P and Aaa by Moody’s and (iii) have portfolio assets of at least \$5,000,000,000;

(f) investments of any Foreign Subsidiary that are analogous to the foregoing, are of comparable credit quality and are customarily used by companies in the jurisdiction of such Foreign Subsidiary for cash management purposes;

(g) any other investments permitted by the Borrower’s investment policy as such policy is in effect, and as disclosed to the Administrative Agent, prior to the Effective Date and as such policy may be amended, restated, supplemented or otherwise modified from time to time with the consent of the Administrative Agent, not to be unreasonably withheld, conditioned or delayed; and

(h) any Permitted Bond Hedge Transactions and Permitted Warrant Transactions (including Borrower’s entry into, payments of premiums in respect of, and performance of obligations under, such Permitted Bond Hedge Transactions and Permitted Warrant Transactions, in accordance with their terms).

“Permitted Warrant Transaction” means any call option, warrant or right to purchase (or substantively equivalent derivative transaction) relating to Borrower’s common stock (or other securities or property following a merger event or other change of the common stock of Borrower) and/or cash (in an amount determined by reference to the price of such common stock) sold by Borrower substantially concurrently with any purchase by Borrower of a related Permitted Bond Hedge Transaction.

“Person” means any natural person, corporation, limited liability company, trust, joint venture, association, company, partnership, Governmental Authority or other entity.

“Plan” means any employee pension benefit plan (other than a Multiemployer Plan) subject to the provisions of Title IV of ERISA or Section 412 of the Code or Section 302 of ERISA, and in respect of which the Borrower or any ERISA Affiliate is (or, if such plan were terminated, would under Section 4069 of ERISA be deemed to be) an “employer” as defined in Section 3(5) of ERISA.

“Plan Asset Regulations” means 29 CFR § 2510.3-101 *et seq.*, as modified by Section 3(42) of ERISA, as amended from time to time.

“Pledge Subsidiary” means (i) each Domestic Subsidiary and (ii) each First Tier Foreign Subsidiary which is a Material Foreign Subsidiary.

“Pounds Sterling” means the lawful currency of the United Kingdom.

“Prime Rate” means the rate of interest last quoted by The Wall Street Journal as the “Prime Rate” in the U.S. or, if The Wall Street Journal ceases to quote such rate, the highest per annum interest rate published by the Federal Reserve Board in Federal Reserve Statistical Release H.15 (519) (Selected Interest Rates) as the “bank prime loan” rate or, if such rate is no longer quoted therein, any similar rate quoted therein (as determined by the Administrative Agent) or any similar release by the Federal Reserve Board (as determined by the Administrative Agent). Each change in the Prime Rate shall be effective from and including the date such change is publicly announced or quoted as being effective.

“Proceeding” means any claim, litigation, investigation, action, suit, arbitration or administrative, judicial or regulatory action or proceeding in any jurisdiction.

“PTE” means a prohibited transaction class exemption issued by the U.S. Department of Labor, as any such exemption may be amended from time to time.

“QFC” has the meaning assigned to the term “qualified financial contract” in, and shall be interpreted in accordance with, 12 U.S.C. 5390(c)(8)(D).

“QFC Credit Support” has the meaning assigned to it in Section 9.19.

~~“Quotation Day” means, with respect to any Eurocurrency Borrowing for any Interest Period, (i) if the currency is Pounds Sterling, the first day of such Interest Period, (ii) if the currency is euro, the day that is two (2) TARGET2 Days before the first day of such Interest Period, and (iii) for any other currency, two (2) Business Days prior to the commencement of such Interest Period (unless, in each case, market practice differs in the relevant market where the LIBO Rate for such currency is to be determined, in which case the Quotation Day will be determined by the Administrative Agent in accordance with market practice in such market (and if quotations would normally be given on more than one day, then the Quotation Day will be the last of those days)).~~

“Recipient” means (a) the Administrative Agent, (b) any Lender and (c) the Issuing Bank, as applicable.

“Reference Time” with respect to any setting of the then-current Benchmark means (1) if such Benchmark is the **LIBO Term SOFR** Rate, **11:00:00 a.m., London time, (Chicago time)** on the day that is two **London banking days Business Days** preceding the date of such setting, (2) if such

Benchmark is ~~EURIBO~~EURIBOR Rate, 11:00 a.m. Brussels time two TARGET Days preceding the date of such setting, ~~and~~ (3) if the RFR for such Benchmark is SONIA, then four Business Days prior to such setting, (4) if the RFR for such Benchmark is Daily Simple SOFR, then four Business Days prior to such setting or (5) if such Benchmark is not the LIBO none of the Term SOFR Rate, Daily Simple SOFR, the EURIBOR Rate or the EURIBO Rate SONIA, the time determined by the Administrative Agent in its reasonable discretion.

“Refinancing Convertible Notes” has the meaning assigned to it in Section 6.08.

“Register” has the meaning assigned to such term in Section 9.04(b).

“Regulation D” means Regulation D of the Federal Reserve Board, as in effect from time to time and all official rulings and interpretations thereunder or thereof.

“Regulation T” means Regulation T of the Federal Reserve Board, as in effect from time to time and all official rulings and interpretations thereunder or thereof.

“Regulation U” means Regulation U of the Federal Reserve Board, as in effect from time to time and all official rulings and interpretations thereunder or thereof.

“Regulation X” means Regulation X of the Federal Reserve Board, as in effect from time to time and all official rulings and interpretations thereunder or thereof.

“Regulatory Authority” has the meaning assigned to such term in Section 3.22(a).

“Related Parties” means, with respect to any specified Person, such Person’s Affiliates and the respective partners, directors, officers, managers, employees, agents and advisors of such Person and such Person’s Affiliates.

“Relevant Governmental Body” means (i) with respect to a Benchmark Replacement in respect of Loans denominated in Dollars, the Federal Reserve Board and/or the NYFRB, the CME Term SOFR Administrator, as applicable, or a committee officially endorsed or convened by the Federal Reserve Board and/or the NYFRB, in each case, or any successor thereto, (ii) with respect to a Benchmark Replacement in respect of Loans denominated in ~~Pounds~~ Sterling, the Bank of England or a committee officially endorsed or convened by the Bank of England or, in each case, any successor thereto, (iii) with respect to a Benchmark Replacement in respect of Loans denominated in ~~euro~~ Euros, the European Central Bank, or a committee officially endorsed or convened by the European Central Bank or, in each case, any successor thereto and (iv) with respect to a Benchmark Replacement in respect of Loans denominated in any ~~Other Agreed Currency~~, other currency, (a) the central bank for the currency in which such Benchmark Replacement is denominated or any central bank or other supervisor which is responsible for supervising either (1) such Benchmark Replacement or (2) the administrator of such Benchmark Replacement or (b) any working group or committee officially endorsed or convened by (1) the central bank for the currency in which such Benchmark Replacement is denominated, (2) any central bank or other supervisor that is responsible for supervising either (A) such Benchmark Replacement or (B) the administrator of such Benchmark Replacement, (3) a group of those central banks or other supervisors or (4) the Financial Stability Board or any part thereof.

“Relevant Rate” means (i) with respect to any ~~Eurocurrency Term Benchmark~~ Borrowing denominated in Dollars ~~or Pounds Sterling~~, the ~~LIBO Rate or Adjusted Term SOFR Rate~~, (ii) with respect to any ~~Eurocurrency Term Benchmark~~ Borrowing denominated in ~~euro~~, ~~the EURIBO Rate~~ Euros, the Adjusted EURIBOR Rate or (iii) with respect to any RFR Borrowing denominated in Sterling or Dollars, the applicable Adjusted Daily Simple RFR, as applicable.

“Relevant Screen Rate” means (i) with respect to any ~~Eurocurrency Term Benchmark~~ Borrowing denominated in Dollars ~~or Pounds Sterling~~, the ~~LIBO Screen Term SOFR Reference~~ Rate or (ii) with respect to any ~~Eurocurrency Term Benchmark~~ Borrowing denominated in ~~euro~~ Euros, the ~~EURIBO~~EURIBOR Screen Rate, ~~as applicable~~.

“Required Lenders” means, subject to Section 2.22, (a) at any time prior to the earlier of the Loans becoming due and payable pursuant to Section 7.02 or the Commitments terminating or expiring, (i) at any time there are two or more Lenders, at least two Lenders, and (ii) otherwise, Lenders, in each case, having Revolving Credit Exposures and Unfunded Commitments representing more than 50% of the sum of the Total Revolving Credit Exposure and Unfunded Commitments at such time, provided that, solely for purposes of declaring the Loans to be due and payable pursuant to Section 7.02, the Unfunded Commitment of each Lender shall be deemed to be zero; and (b) for all purposes after the Loans become due and payable pursuant to Section 7.02 or the Commitments expire or terminate, (i) at any time there are two or more Lenders, at least two Lenders, and (ii) otherwise, Lenders, in each case, having Revolving Credit Exposures representing more than 50% of the Total Revolving Credit Exposure at such time; provided that, in the case of clauses (a) and (b) above, (x) the Revolving Credit Exposure of any Lender that is the Swingline Lender shall be deemed to exclude any amount of its Swingline Exposure in excess of its Applicable Percentage of all outstanding Swingline Loans, adjusted to give effect to any reallocation under Section 2.22 of the Swingline Exposures of Defaulting Lenders in effect at such time, and the Unfunded Commitment of such Lender shall be determined on the basis of its Revolving Credit Exposure excluding such excess amount and (y) for the purpose of determining the Required Lenders needed for any waiver, amendment, modification or consent of or under this Agreement or any other Loan Document, any Lender that is the Borrower or an Affiliate of the Borrower shall be disregarded.

“Resolution Authority” means an EEA Resolution Authority or, with respect to any UK Financial Institution, a UK Resolution Authority.

“Responsible Officer” means the chief executive officer, president, a Financial Officer or other executive officer of the Borrower.

“Restricted Payment” means any dividend or other distribution (whether in cash, securities or other property) with respect to any Equity Interests in the Borrower or any Subsidiary, or any payment (whether in cash, securities or other property), including any sinking fund or similar deposit, on account of the purchase, redemption, retirement, acquisition, cancellation or termination of any such Equity Interests in the Borrower or any Subsidiary or any option, warrant or other similar right to acquire any such Equity Interests in the Borrower or any Subsidiary.

“Reuters” means Thomson Reuters Corp., Refinitiv, or any successor thereto.

“Revaluation Date” shall mean (a) with respect to any Loan denominated in any Foreign Currency, each of the following: (i) the date of the Borrowing of such Loan and (ii) (A) with respect to any Term Benchmark Loan, each date of a conversion into or continuation of such Loan pursuant to the terms of this Agreement and (B) with respect to any RFR Loan, each date that is on the numerically corresponding day in each calendar month that is one month after the Borrowing of such Loan (or, if there is no such numerically corresponding day in such month, then the last day of such month); (b) with respect to any Letter of Credit denominated in a Foreign Currency, each of the following: (i) the date on which such Letter of Credit is issued, (ii) the first Business Day of each calendar month and (iii) the date of any amendment of such Letter of Credit that has the effect of increasing the face amount thereof; and (c) any additional date as the Administrative Agent may determine at any time when an Event of Default exists.

“Revolving Credit Exposure” means, with respect to any Lender at any time, the sum of the outstanding principal amount of such Lender’s Revolving Loans, its LC Exposure and its Swingline Exposure at such time.

“Revolving Loan” means a Loan made pursuant to Section 2.01.

“RFR” for any RFR Loan denominated in (a) Sterling, SONIA and (b) Dollars, Daily Simple SOFR.

“RFR Administrator” means the SONIA Administrator, the SARON Administrator or the SOFR Administrator.

“RFR Borrowing” means, as to any Borrowing, the RFR Loans comprising such Borrowing.

“RFR Business Day” means, for any Loan denominated in (a) Sterling, any day except for (i) a Saturday, (ii) a Sunday or (iii) a day on which banks are closed for general business in London and (b) Dollars, a U.S. Government Securities Business Day.

“RFR Interest Day” has the meaning specified in the definition of “Daily Simple RFR”.

“RFR Loan” means a Loan that bears interest at a rate based on the Adjusted Daily Simple RFR.

“S&P” means Standard & Poor’s Rating Services, a Standard & Poor’s Financial Services LLC business.

“Sale and Leaseback Transaction” means any sale or other transfer of any property or asset by any Person with the intent to lease such property or asset as lessee.

“Sanctioned Country” means, at any time, a country, region or territory which is itself the subject or target of any Sanctions (at the time of this Agreement, Crimea, Cuba, Iran, North Korea and Syria).

“Sanctioned Person” means, at any time, (a) any Person listed in any Sanctions-related list of designated Persons maintained by OFAC, the U.S. Department of State, the United Nations Security Council, the European Union, any European Union member state, Her Majesty’s Treasury of the United Kingdom or other relevant sanctions authority, (b) any Person operating, organized or resident in a Sanctioned Country, (c) any Person owned or controlled by any such Person or Persons described in the foregoing clauses (a) or (b), or (d) any Person otherwise the subject of any Sanctions.

“Sanctions” means all economic or financial sanctions or trade embargoes imposed, administered or enforced from time to time by (a) the U.S. government, including those administered by OFAC or the U.S. Department of State or (b) the United Nations Security Council, the European Union, any European Union member state, Her Majesty’s Treasury of the United Kingdom or other relevant sanctions authority.

“SEC” means the Securities and Exchange Commission of the United States of America.

“Second Amendment Effective Date” means February 18, 2022.

“Secured Obligations” means all Obligations, together with all Swap Obligations and Banking Services Obligations owing to one or more Lenders or their respective Affiliates; provided that the definition of “Secured Obligations” shall not create or include any guarantee by any Loan Party of (or grant of security interest by any Loan Party to support, as applicable) any Excluded Swap Obligations of such Loan Party for purposes of determining any obligations of any Loan Party.

“Secured Parties” means the holders of the Secured Obligations from time to time and shall include (i) each Lender and the Issuing Bank in respect of its Loans and LC Exposure respectively, (ii) the Administrative Agent, the Issuing Bank and the Lenders in respect of all other present and future obligations and liabilities of the Borrower and each Subsidiary of every type and description arising under or in connection with this Agreement or any other Loan Document, (iii) each Lender and Affiliate of such Lender in respect of Swap Agreements and Banking Services Agreements entered into with such Person by the Borrower or any Subsidiary, (iv) each indemnified party under Section 9.03 in respect of the obligations and liabilities of the Borrower to such Person hereunder and under the other Loan Documents, and (v) their respective successors and (in the case of a Lender, permitted) transferees and assigns.

“Securities Act” means the United States Securities Act of 1933.

“Security Agreement” means that certain Pledge and Security Agreement (including any and all supplements thereto), dated as of the Effective Date, between the Loan Parties and the Administrative Agent, for the benefit of the Administrative Agent and the other Secured Parties, and any other pledge or security agreement entered into after the date of this Agreement by any other Loan Party (as required by this Agreement or any other Loan Document), or any other Person, as the same may be amended, restated, supplemented or otherwise modified from time to time.

“SOFR” means, ~~with respect to any Business Day~~, a rate ~~per annum~~ equal to the secured overnight financing rate ~~for such Business Day published as administered~~ by the SOFR Administrator ~~on the SOFR Administrator’s Website~~.

“SOFR Administrator” means the NYFRB (or a successor administrator of the secured overnight financing rate).

“SOFR Administrator’s Website” means the NYFRB’s Website, currently at <http://www.newyorkfed.org>, or any successor source for the secured overnight financing rate identified as such by the SOFR Administrator from time to time.

“SOFR Determination Date” has the meaning specified in the definition of “Daily Simple SOFR”.

“SOFR Rate Day” has the meaning specified in the definition of “Daily Simple SOFR”.

“Solvent” means, as to any Person as of any date of determination, that on such date (a) the fair value of the property of such Person is greater than the total amount of liabilities, including contingent liabilities, of such Person, (b) the present fair saleable value of such Person is not less than the amount that will be required to pay the probable liability of such Person on its debts, including contingent debts, as they become absolute and matured, (c) such Person does not intend to, and does not believe that it will, incur debts or liabilities, including contingent debts and liabilities, beyond such Person’s ability to pay such debts and liabilities as they mature and (d) such Person is not engaged in a business or a transaction, and is not about to engage in a business or a transaction, for which such Person’s property would constitute an unreasonably small capital. The amount of any contingent liability at any time shall be computed as the amount that, in light of all of the facts and circumstances existing at such time, represents the amount that can reasonably be expected to become an actual or matured liability.

“SONIA” means, with respect to any Business Day, a rate per annum equal to the Sterling Overnight Index Average for such Business Day published by the SONIA Administrator on the SONIA Administrator’s Website on the immediately succeeding Business Day.

“SONIA Administrator” means the Bank of England (or any successor administrator of the Sterling Overnight Index Average).

“SONIA Administrator’s Website” means the Bank of England’s website, currently at <http://www.bankofengland.co.uk>, or any successor source for the Sterling Overnight Index Average identified as such by the SONIA Administrator from time to time.

“Specified Ancillary Obligations” means all obligations and liabilities (including interest and fees accruing during the pendency of any bankruptcy, insolvency, receivership or other similar proceeding, regardless of whether allowed or allowable in such proceeding) of any of the Subsidiaries, existing on the Effective Date or arising thereafter, direct or indirect, joint or several, absolute or contingent, matured or unmatured, liquidated or unliquidated, secured or unsecured, arising by contract, operation of law or otherwise, to the Lenders or any of their Affiliates under any Swap Agreement or any Banking Services Agreement; provided that the definition of “Specified Ancillary Obligations” shall not create or include any guarantee by any Loan Party of (or grant of security interest by any Loan Party to support, as applicable) any Excluded Swap Obligations of such Loan Party for purposes of determining any obligations of any Loan Party.

“Specified Swap Obligation” means, with respect to any Loan Party, any obligation to pay or perform under any agreement, contract or transaction that constitutes a “swap” within the meaning of Section 1a(47) of the Commodity Exchange Act or any rules or regulations promulgated thereunder. Notwithstanding anything to the contrary in the foregoing, any Permitted Bond Hedge Transaction, any Permitted Warrant Transaction, and any obligations thereunder, in each case, shall not constitute Specified Swap Obligations.

“Statutory Reserve Rate” means a fraction (expressed as a decimal), the numerator of which is the number one and the denominator of which is the number one minus the aggregate of the maximum reserve, ~~liquid asset, fees or similar requirements percentage~~ (including any marginal, special, emergency or supplemental reserves ~~or other requirements~~) expressed as a decimal established by ~~any central bank, monetary authority, the Federal Reserve Board, the Financial Conduct Authority, the Prudential Regulation Authority, the European Central Bank or other Governmental Authority for any category of deposits or liabilities customarily used to fund loans in the applicable currency, expressed in the case of each such requirement as a decimal. Such reserve, liquid asset, fees or similar requirements to which the Administrative Agent is subject with respect to the Adjusted EURIBOR Rate for eurocurrency funding (currently referred to as “Eurocurrency liabilities” in Regulation D of the Board) or any other reserve ratio or analogous requirement of any central banking or financial regulatory authority imposed in respect of the maintenance of the Commitments or the funding of the Loans. Such reserve percentage~~ shall include those imposed pursuant to Regulation D. ~~Eurocurrency of the Board. Term Benchmark~~ Loans shall be deemed to constitute eurocurrency funding and to be subject to such reserve, ~~liquid asset, fee or similar~~ requirements without benefit of or credit for proration, exemptions or offsets that may be available from time to time to any Lender under ~~any applicable law, rule or regulation, including Regulation D of the Board or any comparable regulation~~. The Statutory Reserve Rate shall be adjusted automatically on and as of the effective date of any change in any reserve, ~~liquid asset or similar requirement percentage~~.

“Sterling” or “£” mean the lawful currency of the United Kingdom.

“Subordinated Indebtedness” means any Indebtedness of the Borrower or any Subsidiary the payment of which is subordinated to payment of the Secured Obligations. For the avoidance of doubt, any Permitted Convertible Indebtedness shall not constitute Subordinated Indebtedness.

“Subordinated Indebtedness Documents” means any document, agreement or instrument evidencing any Subordinated Indebtedness or entered into in connection with any Subordinated Indebtedness.

“subsidiary” means, with respect to any Person (the “parent”) at any date, any corporation, limited liability company, partnership, association or other entity the accounts of which would be consolidated with those of the parent in the parent’s consolidated financial statements if such financial statements were prepared in accordance with GAAP as of such date, as well as any other corporation, limited liability company, partnership, association or other entity of which securities or other ownership interests representing more than 50% of the equity or more than 50% of the ordinary voting power or, in the case of a partnership, more than 50% of the general partnership interests are, as of such date, owned, Controlled or held.

“Subsidiary” means any subsidiary of the Borrower.

“Subsidiary Guarantor” means each Material Domestic Subsidiary that is a party to the Subsidiary Guaranty.

“Subsidiary Guaranty” means that a guaranty by and among the Administrative Agent and the Subsidiary Guarantors in form and substance reasonably satisfactory to the Administrative Agent, as amended, restated, supplemented or otherwise modified from time to time.

“Supported QFC” has the meaning assigned to it in Section 9.19.

“Swap Agreement” means any agreement with respect to any swap, forward, future or derivative transaction or option or similar agreement involving, or settled by reference to, one or more rates, currencies, commodities, equity or debt instruments or securities, or economic, financial or pricing indices or measures of economic, financial or pricing risk or value or any similar transaction or any combination of these transactions; provided that no phantom stock or similar plan providing for payments only on account of services provided by current or former directors, officers, employees or consultants of the Borrower or the Subsidiaries shall be a Swap Agreement. Notwithstanding the foregoing, no Permitted Bond Hedge Transaction or Permitted Warrant Transaction shall be considered a Swap Agreement.

“Swap Obligations” means any and all obligations of the Borrower or any Subsidiary, whether absolute or contingent and howsoever and whensoever created, arising, evidenced or acquired (including all renewals, extensions and modifications thereof and substitutions therefor), under (a) any and all Swap Agreements permitted hereunder with a Lender or an Affiliate of a Lender, and (b) any and all cancellations, buy backs, reversals, terminations or assignments of any such Swap Agreement transaction. For the avoidance of doubt, no Permitted Bond Hedge Transaction or Permitted Warrant Transaction shall be considered a Swap Obligation.

“Swingline Exposure” means, at any time, the aggregate principal amount of all Swingline Loans outstanding at such time. The Swingline Exposure of any Lender at any time shall be the sum of (a) its Applicable Percentage of the aggregate principal amount of all Swingline Loans outstanding at such time (excluding, in the case of any Lender that is a Swingline Lender, Swingline Loans made by it that are outstanding at such time to the extent that the other Lenders shall not have funded their participations in such Swingline Loans), adjusted to give effect to any reallocation under Section 2.22 of the Swingline Exposure of Defaulting Lenders in effect at such time, and (b) in the case of any Lender that is a Swingline Lender, the aggregate principal amount of all Swingline Loans made by such Lender outstanding at such time, less the amount of participations funded by the other Lenders in such Swingline Loans.

“Swingline Lender” means JPMorgan Chase Bank, N.A., in its capacity as the lender of Swingline Loans hereunder.

“Swingline Loan” means a Loan made pursuant to Section 2.05.

“Swingline Sublimit” means \$10,000,000.

“TARGET2” means the Trans-European Automated Real-time Gross Settlement Express Transfer ~~(TARGET2)~~ payment system which utilizes a single shared platform and which was launched on November 19, 2007.

“TARGET Day” means any day on which TARGET2 (or, if such payment system ceases to be operative, such other payment system ~~(, if any) reasonably~~, determined by the Administrative Agent to be a suitable replacement) is open for the settlement of payments in ~~euro~~Euro.

~~“TARGET2 Day.” means a day that TARGET2 is open for the settlement of payments in euro.~~

“Taxes” means all present or future taxes, levies, imposts, duties, deductions, withholdings (including backup withholding), value added taxes, or any other goods and services, use or sales taxes, assessments, fees or other charges imposed by any Governmental Authority, including any interest, additions to tax or penalties applicable thereto.

“Term Benchmark” when used in reference to any Loan or Borrowing, refers to whether such Loan, or the Loans comprising such Borrowing, are bearing interest at a rate determined by reference to the Adjusted Term SOFR Rate or the Adjusted EURIBOR Rate.

~~“Term ESTR” means, for the applicable Corresponding Tenor as of the applicable Reference Time, the forward-looking term rate based on ESTR that has been selected or recommended by the Relevant Governmental Body;~~

~~“Term ESTR Notice” means a notification by the Administrative Agent to the Lenders and the Borrower of the occurrence of a Term ESTR Transition Event;~~

~~“Term ESTR Transition Event” means the determination by the Administrative Agent that (a) Term ESTR has been recommended for use by the Relevant Governmental Body, (b) the administration of Term ESTR is administratively feasible for the Administrative Agent and (c) a Benchmark Transition Event or an Early Opt-in Election, as applicable, has previously occurred resulting in a Benchmark Replacement in accordance with Section 2.14 that is not Term ESTR;~~

~~“Term SOFR” means, for the applicable Corresponding Tenor as of the applicable Reference Time, the forward-looking term rate based on SOFR that has been selected or recommended by the Relevant Governmental Body;~~

~~“Term SOFR Notice” means a notification by the Administrative Agent to the Lenders and the Borrower of the occurrence of a Term SOFR Transition Event~~Determination Day” has the meaning specified in the definition of “Term SOFR Reference Rate”.

~~“Term SOFR Transition Event” means the determination by the Administrative Agent that (a) Term SOFR has been recommended for use by the Relevant Governmental Body, (b) the administration of Term SOFR is administratively feasible for the Administrative Agent and (c) a Benchmark Transition Event or an Early Opt-in Election, as applicable, has previously occurred resulting in a Benchmark Replacement in accordance with Section 2.14 that is not Term SOFR.~~Rate” means, with respect to any Term Benchmark Borrowing denominated in Dollars and for any tenor comparable to the applicable Interest Period, the Term SOFR Reference Rate at approximately 5:00 a.m. (Chicago time) two U.S. Government Securities Business Days prior to the commencement of such tenor comparable to the applicable Interest Period, as such rate is published by the CME Term SOFR Administrator.

“Term SOFR Reference Rate” means, for any day and time (such day, the “Term SOFR Determination Day”), with respect to any Term Benchmark Borrowing denominated in Dollars and for any tenor comparable to the applicable Interest Period, the rate per annum determined by the Administrative Agent as the forward-looking term rate based on SOFR. If by 5:00 p.m. (New York City time) on such Term SOFR Determination Day, the “Term SOFR Reference Rate” for the applicable tenor has not been published by the CME Term SOFR Administrator and a Benchmark Replacement Date with respect to the Term SOFR Rate has not occurred, then the Term SOFR Reference Rate for such Term SOFR Determination Day will be the Term SOFR Reference Rate as published in respect of the first preceding U.S. Government Securities Business Day for which such Term SOFR Reference Rate was published by the CME Term SOFR Administrator, so long as such first preceding Business Day is not more than five (5) Business Days prior to such Term SOFR Determination Day.

“Total Revolving Credit Exposure” means, at any time, the sum of (a) the outstanding principal amount of the Revolving Loans and Swingline Loans at such time and (b) the total LC Exposure at such time.

“Transactions” means the execution, delivery and performance by the Loan Parties of this Agreement and the other Loan Documents, the borrowing of Loans and other credit extensions, the use of the proceeds thereof and the issuance of Letters of Credit hereunder.

“Type”, when used in reference to any Loan or Borrowing, refers to whether the rate of interest on such Loan, or on the Loans comprising such Borrowing, is determined by reference to the Adjusted ~~LIBO~~Term SOFR Rate, the Adjusted ~~EURIBO~~EURIBOR Rate ~~or~~, the Alternate Base Rate or the Adjusted Daily Simple RFR.

“UCC” means the Uniform Commercial Code as in effect from time to time in the State of New York or any other state the laws of which are required to be applied in connection with the issue of perfection of security interests.

“UK Financial Institution” means any BRRD Undertaking (as such term is defined under the PRA Rulebook (as amended from time to time) promulgated by the United Kingdom Prudential Regulation Authority) or any person falling within IFPRU 11.6 of the FCA Handbook (as amended from time to time) promulgated by the United Kingdom Financial Conduct Authority, which includes certain credit institutions and investment firms, and certain affiliates of such credit institutions or investment firms.

“UK Resolution Authority” means the Bank of England or any other public administrative authority having responsibility for the resolution of any UK Financial Institution.

“Unadjusted Benchmark Replacement” means the applicable Benchmark Replacement excluding the related Benchmark Replacement Adjustment.

“Unfunded Commitment” means, with respect to each Lender, the Commitment of such Lender less its Revolving Credit Exposure.

“United States” or “U.S.” mean the United States of America.

“Unliquidated Obligations” means, at any time, any Secured Obligations (or portion thereof) that are contingent in nature or unliquidated at such time, including any Secured Obligation that is: (i) an obligation to reimburse a bank for drawings not yet made under a letter of credit issued by it; (ii) any other obligation (including any guarantee) that is contingent in nature at such time; or (iii) an obligation to provide collateral to secure any of the foregoing types of obligations.

“U.S. Government Securities Business Day” means any day except for (i) a Saturday, (ii) a Sunday or (iii) a day on which the Securities Industry and Financial Markets Association recommends that the fixed income departments of its members be closed for the entire day for purposes of trading in United States government securities.

“U.S. Person” means a “United States person” within the meaning of Section 7701(a)(30) of the Code.

“U.S. Special Resolution Regime” has the meaning assigned to it in Section 9.19.

“U.S. Tax Compliance Certificate” has the meaning assigned to such term in Section 2.17(f)(ii)(B)(3).

“wholly-owned Subsidiary” means a Subsidiary with respect to which 100% of the issued and outstanding Equity Interests are owned directly or indirectly by the Borrower (other than (x) directors’ qualifying shares; (y) shares issued to foreign nationals to the extent required by applicable law; and (z) shares held by a Person on trust for, or otherwise where the beneficial interest is held by, the Borrower (directly or indirectly)).

“Withdrawal Liability” means liability to a Multiemployer Plan as a result of a complete or partial withdrawal from such Multiemployer Plan, as such terms are defined in Part I of Subtitle E of Title IV of ERISA.

“Write-Down and Conversion Powers” means, (a) with respect to any EEA Resolution Authority, the write-down and conversion powers of such EEA Resolution Authority from time to time under the Bail-In Legislation for the applicable EEA Member Country, which write-down and conversion powers are described in the EU Bail-In Legislation Schedule, and (b) with respect to the United Kingdom, any powers of the applicable Resolution Authority under the Bail-In Legislation to cancel, reduce, modify or change the form of a liability of any UK Financial Institution or any contract or instrument under

which that liability arises, to convert all or part of that liability into shares, securities or obligations of that person or any other person, to provide that any such contract or instrument is to have effect as if a right had been exercised under it or to suspend any obligation in respect of that liability or any of the powers under that Bail-In Legislation that are related to or ancillary to any of those powers.

SECTION 1.02. Classification of Loans and Borrowings. For purposes of this Agreement, Loans may be classified and referred to by Class (e.g., a “Revolving Loan”) or by Type (e.g., a “Eurocurrency Term Benchmark Loan” or an “RFR Loan”) or by Class and Type (e.g., a “Eurocurrency Term Benchmark Revolving Loan” or an “RFR Revolving Loan”). Borrowings also may be classified and referred to by Class (e.g., a “Revolving Borrowing”) or by Type (e.g., a “Eurocurrency Term Benchmark Borrowing” or an “RFR Borrowing”) or by Class and Type (e.g., a “Eurocurrency Term Benchmark Revolving Borrowing” or an “RFR Revolving Borrowing”).

SECTION 1.03. Terms Generally. The definitions of terms herein shall apply equally to the singular and plural forms of the terms defined. Whenever the context may require, any pronoun shall include the corresponding masculine, feminine and neuter forms. The words “include”, “includes” and “including” shall be deemed to be followed by the phrase “without limitation”. The word “will” shall be construed to have the same meaning and effect as the word “shall”. The word “law” shall be construed as referring to all statutes, rules, regulations, codes and other laws (including official rulings and interpretations thereunder having the force of law or with which affected Persons customarily comply), and all judgments, orders and decrees, of all Governmental Authorities. Unless the context requires otherwise (a) any definition of or reference to any agreement, instrument or other document herein shall be construed as referring to such agreement, instrument or other document as from time to time amended, restated, supplemented or otherwise modified (subject to any restrictions on such amendments, restatements, supplements or modifications set forth herein), (b) any definition of or reference to any law, statute, rule or regulation shall, unless otherwise specified, be construed as referring thereto as from time to time amended, supplemented or otherwise modified (including by succession of comparable successor laws), (c) any reference herein to any Person shall be construed to include such Person’s successors and assigns (subject to any restrictions on assignment set forth herein) and, in the case of any Governmental Authority, any other Governmental Authority that shall have succeeded to any or all functions thereof, (d) the words “herein”, “hereof” and “hereunder”, and words of similar import, shall be construed to refer to this Agreement in its entirety and not to any particular provision hereof, (e) all references herein to Articles, Sections, Exhibits and Schedules shall be construed to refer to Articles and Sections of, and Exhibits and Schedules to, this Agreement and (f) the words “asset” and “property” shall be construed to have the same meaning and effect and to refer to any and all tangible and intangible assets and properties, including cash, securities, accounts and contract rights.

SECTION 1.04. Accounting Terms; GAAP; Pro Forma Calculations. Except as otherwise expressly provided herein, all terms of an accounting or financial nature shall be construed in accordance with GAAP, as in effect from time to time; provided that, if the Borrower notifies the Administrative Agent that the Borrower requests an amendment to any provision hereof to eliminate the effect of any change occurring after the date hereof in GAAP or in the application thereof on the operation of such provision (or if the Administrative Agent notifies the Borrower that the Required Lenders request an amendment to any provision hereof for such purpose), regardless of whether any such notice is given before or after such change in GAAP or in the application thereof, then such provision shall be interpreted on the basis of GAAP as in effect and applied immediately before such change shall have become effective until such notice shall have been withdrawn or such provision amended in accordance herewith. Notwithstanding any other provision contained herein, all terms of an accounting or financial nature used herein shall be construed, and all computations of amounts and ratios referred to herein shall be made, without giving effect to (i) any election under Financial Accounting Standards Board Accounting Standards Codification 825 (or any other Accounting Standards Codification or Financial Accounting Standard having a similar result or effect) to value any Indebtedness or other liabilities of the Borrower or any Subsidiary at “fair value”, as defined therein and (ii) any treatment of Indebtedness under Accounting Standards Codification 470-20 or 2015-03 (or any other Accounting Standards Codification or Financial Accounting Standard having a similar result or effect) to value any such Indebtedness in a reduced or bifurcated manner as described therein, and such Indebtedness shall at all times be valued at the full stated principal amount thereof. Notwithstanding anything to the contrary contained in Section 1.04(a) or in the definition of “Capital Lease Obligations,” any change in accounting

for leases pursuant to GAAP resulting from the adoption of Financial Accounting Standards Board Accounting Standards Update No. 2016-02, Leases (Topic 842) (“FAS 842”), to the extent such adoption would require treating any lease (or similar arrangement conveying the right to use) as a capital lease where such lease (or similar arrangement) would not have been required to be so treated under GAAP as in effect on December 31, 2015, such lease shall not be considered a capital lease, and all calculations and deliverables under this Agreement or any other Loan Document shall be made or delivered, as applicable, in accordance therewith. For the avoidance of doubt, and without limitation of the foregoing, Permitted Convertible Notes shall at all times be valued at the full stated principal amount thereof and shall not include any reduction or appreciation in value of the shares deliverable upon conversion thereof.

(b) All pro forma computations required to be made hereunder giving effect to any acquisition or disposition, or issuance, incurrence or assumption of Indebtedness, or other transaction shall in each case be calculated giving pro forma effect thereto (and, in the case of any pro forma computation made hereunder to determine whether such acquisition or disposition, or issuance, incurrence or assumption of Indebtedness, or other transaction is permitted to be consummated hereunder, to any other such transaction consummated since the first day of the period covered by any component of such pro forma computation and on or prior to the date of such computation) as if such transaction had occurred on the first day of the period of four consecutive fiscal quarters ending with the most recent fiscal quarter for which financial statements shall have been delivered pursuant to Section 5.01(a) or 5.01(b) (or, prior to the delivery of any such financial statements, ending with the last fiscal quarter included in the financial statements referred to in Section 3.04(a)), and, to the extent applicable, to the historical earnings and cash flows associated with the assets acquired or disposed of (but without giving effect to any synergies or cost savings) and any related incurrence or reduction of Indebtedness, all in accordance with Article 11 of Regulation S-X under the Securities Act. If any Indebtedness bears a floating rate of interest and is being given pro forma effect, the interest on such Indebtedness shall be calculated as if the rate in effect on the date of determination had been the applicable rate for the entire period (taking into account any Swap Agreement applicable to such Indebtedness).

SECTION 1.05. Interest Rates; **LIBOR Benchmark** Notification. The interest rate on a Loan denominated in **an Agreed Dollars or a Foreign** Currency may be derived from an interest rate benchmark that **may be discontinued or** is, or may in the future become, the subject of regulatory reform. ~~Regulators have signaled the need to use alternative benchmark reference rates for some of these interest rate benchmarks and, as a result, such interest rate benchmarks may cease to comply with applicable laws and regulations, may be permanently discontinued, and/or the basis on which they are calculated may change. The London interbank offered rate is intended to represent the rate at which contributing banks may obtain short-term borrowings from each other in the London interbank market. In July 2017, the U.K. Financial Conduct Authority announced that, after the end of 2021, it would no longer persuade or compel contributing banks to make rate submissions to the ICE Benchmark Administration (together with any successor to the ICE Benchmark Administrator, the “IBA”) for purposes of the IBA setting the London interbank offered rate. As a result, it is possible that commencing in 2022, the London interbank offered rate may no longer be available or may no longer be deemed an appropriate reference rate upon which to determine the interest rate on Eurocurrency Loans. In light of this eventuality, public and private sector industry initiatives are currently underway to identify new or alternative reference rates to be used in place of the London interbank offered rate.~~ Upon the occurrence of a Benchmark Transition Event, ~~a Term SOFR Transition Event, a Term ESTR Transition Event or an Early Opt-in Election,~~ Section 2.14(b) ~~and (c) provide~~ **provides a** mechanism for determining an alternative rate of interest. The ~~Administrative Agent will promptly notify the Borrower, pursuant to Section 2.14(c), of any change to the reference rate upon which the interest rate on Eurocurrency Loans is based. However, the~~ Administrative Agent does not warrant or accept any responsibility for, and shall not have any liability with respect to, the administration, submission, **performance** or any other matter related to ~~the London interbank offered rate or other rates in the definition of “LIBO Rate” (or “EURIBO Rate”, as applicable) any interest rate used in this Agreement,~~ or with respect to any alternative or successor rate thereto, or replacement rate thereof ~~(including, without limitation, (i) any such alternative, successor or replacement rate implemented pursuant to Section 2.14(b) or (c), whether upon the occurrence of a Benchmark Transition Event, a Term SOFR Transition Event, a Term ESTR Transition Event or an Early Opt-in Election, and (ii) the implementation of any Benchmark Replacement Conforming Changes pursuant to Section 2.14(d)),~~ including without limitation, whether the

composition or characteristics of any such alternative, successor or replacement reference rate will be similar to, or produce the same value or economic equivalence of, the ~~LIBO Rate (or the EURIBO Rate, as applicable)~~existing interest rate being replaced or have the same volume or liquidity as did ~~the London interbank offered rate (or the euro interbank offered rate, as applicable)~~any existing interest rate prior to its discontinuance or unavailability. The Administrative Agent and its affiliates and/or other related entities may engage in transactions that affect the calculation of any interest rate used in this Agreement or any alternative, successor or alternative rate (including any Benchmark Replacement) and/or any relevant adjustments thereto, in each case, in a manner adverse to the Borrower. The Administrative Agent may select information sources or services in its reasonable discretion to ascertain any interest rate used in this Agreement, any component thereof, or rates referenced in the definition thereof, in each case pursuant to the terms of this Agreement, and shall have no liability to the Borrower, any Lender or any other person or entity for damages of any kind, including direct or indirect, special, punitive, incidental or consequential damages, costs, losses or expenses (whether in tort, contract or otherwise and whether at law or in equity), for any error or calculation of any such rate (or component thereof) provided by any such information source or service.

SECTION 1.06. Status of Obligations. In the event that the Borrower or any other Loan Party shall at any time issue or have outstanding any Subordinated Indebtedness, the Borrower shall take or cause such other Loan Party to take all such actions as shall be necessary to cause the Secured Obligations to constitute senior indebtedness (however denominated) in respect of such Subordinated Indebtedness and to enable the Administrative Agent and the Lenders to have and exercise any payment blockage or other remedies available or potentially available to holders of senior indebtedness under the terms of such Subordinated Indebtedness. Without limiting the foregoing, the Secured Obligations are hereby designated as “senior indebtedness” and as “designated senior indebtedness” and words of similar import under and in respect of any indenture or other agreement or instrument under which such Subordinated Indebtedness is outstanding and are further given all such other designations as shall be required under the terms of any such Subordinated Indebtedness in order that the Lenders may have and exercise any payment blockage or other remedies available or potentially available to holders of senior indebtedness under the terms of such Subordinated Indebtedness.

SECTION 1.07. Letter of Credit Amounts. Unless otherwise specified herein, the amount of a Letter of Credit at any time shall be deemed to be the Dollar Amount of the stated amount of such Letter of Credit available to be drawn at such time; provided that, with respect to any Letter of Credit that, by its terms or the terms of any Letter of Credit Agreement related thereto, provides for one or more automatic increases in the available amount thereof, the amount of such Letter of Credit shall be deemed to be the Dollar Amount of the maximum amount of such Letter of Credit after giving effect to all such increases, whether or not such maximum amount is available to be drawn at such time.

SECTION 1.08. Divisions. For all purposes under the Loan Documents, in connection with any division or plan of division under Delaware law (or any comparable event under a different jurisdiction’s laws): (a) if any asset, right, obligation or liability of any Person becomes the asset, right, obligation or liability of a different Person, then it shall be deemed to have been transferred from the original Person to the subsequent Person, and (b) if any new Person comes into existence, such new Person shall be deemed to have been organized and acquired on the first date of its existence by the holders of its Equity Interests at such time.

SECTION 1.09. Exchange Rates; Currency Equivalents.

(a) The Administrative Agent or the Issuing Bank, as applicable, shall determine the Dollar Amount amounts of Term Benchmark Borrowings or Letter of Credit extensions denominated in Foreign Currencies. Such Dollar Amount shall become effective as of such Revaluation Date and shall be the Dollar Amount of such amounts until the next Revaluation Date to occur. Except for purposes of financial statements delivered by the Borrower hereunder or calculating financial covenants hereunder or except as otherwise provided herein, the applicable amount of any Agreed Currency (other than Dollars) for purposes of the Loan Documents shall be such Dollar Amount amount as so determined by the Administrative Agent or the Issuing Bank, as applicable.

(b) Wherever in this Agreement in connection with a Borrowing, conversion, continuation or prepayment of a Term Benchmark Loan or an RFR Loan or the issuance, amendment or extension of a Letter of Credit, an amount, such as a required minimum or multiple amount, is expressed in Dollars, but such Borrowing, Loan or Letter of Credit is denominated in a Foreign Currency, such amount shall be the Dollar Amount of such amount (rounded to the nearest unit of such Foreign Currency, with 0.5 of a unit being rounded upward), as determined by the Administrative Agent or the Issuing Bank, as the case may be.

ARTICLE II

The Credits

SECTION 1.01. Commitments. Subject to the terms and conditions set forth herein, each Lender (severally and not jointly) agrees to make Revolving Loans to the Borrower in Agreed Currencies from time to time during the Availability Period in an aggregate principal amount that will not result (after giving effect to any application of proceeds of such Borrowing to any Swingline Loans outstanding pursuant to Section 2.10(a)) in, subject to Sections ~~2.04~~**1.09** and 2.11(b), (a) ~~the Dollar Amount of~~ such Lender's Revolving Credit Exposure exceeding such Lender's Commitment, (b) the ~~Dollar Amount of the~~ Total Revolving Credit Exposure exceeding the Aggregate Commitment or (c) the ~~Dollar Amount of the total outstanding Total~~ Revolving ~~Loans and LC Credit~~ Exposure, ~~in each case~~ denominated in Foreign Currencies; exceeding the Foreign Currency Sublimit. Within the foregoing limits and subject to the terms and conditions set forth herein, the Borrower may borrow, prepay and reborrow Revolving Loans.

SECTION 1.02. Loans and Borrowings. Each Revolving Loan (other than a Swingline Loan) shall be made as part of a Borrowing consisting of Revolving Loans made by the Lenders ratably in accordance with their respective Commitments. The failure of any Lender to make any Loan required to be made by it shall not relieve any other Lender of its obligations hereunder; provided that the Commitments of the Lenders are several and no Lender shall be responsible for any other Lender's failure to make Loans as required. Any Swingline Loan shall be made in accordance with the procedures set forth in Section 2.05.

(b) Subject to Section 2.14, each Revolving Borrowing shall be comprised (A) in the case of Borrowings in Dollars, entirely of ABR Loans or Eurocurrency Loans Term Benchmark Loans and (B) in the case of Borrowings in any other Agreed Currency, entirely of Term Benchmark Loans or RFR Loans, as applicable, in each case of the same Agreed Currency, as the Borrower may request in accordance herewith; ~~provided that each ABR Loan shall only be made in Dollars.~~ Each Swingline Loan shall be an ABR Loan. Each Lender at its option may make any Loan by causing any domestic or foreign branch or Affiliate of such Lender to make such Loan (and in the case of an Affiliate, the provisions of Sections 2.14, 2.15, 2.16 and 2.17 shall apply to such Affiliate to the same extent as to such Lender); provided that any exercise of such option shall not affect the obligation of the Borrower to repay such Loan in accordance with the terms of this Agreement.

(c) At the commencement of each Interest Period for any ~~Eurocurrency~~Term Benchmark Revolving Borrowing, such Borrowing shall be in an aggregate amount that is an integral multiple of \$1,000,000 (or, if such Borrowing is denominated in a Foreign Currency, 1,000,000 units of such currency) and not less than \$1,000,000 (or, if such Borrowing is denominated in a Foreign Currency, 1,000,000 units of such currency). At the time that each ABR Revolving Borrowing and/or RFR Borrowing is made, such Borrowing shall be in an aggregate amount that is an integral multiple of the Dollar Amount of \$100,000 and not less than the Dollar Amount of \$500,000; provided that an ABR Revolving Borrowing may be in an aggregate amount that is equal to the entire unused balance of the Aggregate Commitment or that is required to finance the reimbursement of an LC Disbursement as contemplated by Section 2.06(e). Each Swingline Loan shall be in an amount that is an integral multiple of \$100,000 and not less than \$500,000. Borrowings of more than one Type and Class may be outstanding at the same time; provided that there shall not at any time be more than a total of ten (10) ~~Eurocurrency~~Term Benchmark or RFR Borrowings outstanding (in the aggregate for all Term Benchmark Borrowings and RFR Borrowings).

(d) Notwithstanding any other provision of this Agreement, the Borrower shall not be entitled to request, or to elect to convert or continue, any Borrowing if the Interest Period requested with respect thereto would end after the Maturity Date.

SECTION 1.03. Requests for Revolving Borrowings. To request a Revolving Borrowing, the Borrower shall notify the Administrative Agent of such request ~~(a)~~ by irrevocable written notice (via a written Borrowing Request signed by a Responsible Officer of the Borrower) (provided, that a Borrowing Request with respect to funding of a transaction permitted hereunder may state that such notice is conditioned upon the completion of such transaction, in which case, such Borrowing Request may be revoked by the Borrower if the transaction is not consummated at the time specified). ~~(a)(i)(x)~~ in the case of a Eurocurrency Term Benchmark Borrowing denominated in Dollars, not later than ~~11:00~~9:00 a.m., ~~Local Time, three (3~~ (New York City time) two (2) Business Days ~~(before the date of the proposed Borrowing or (y) in the case of an RFR Borrowing denominated in Dollars, not later than 9:00 a.m. (New York City time) two (2) Business Days before the date of the proposed Borrowing, (ii) in the case of a Eurocurrency Term Benchmark Borrowing denominated in Dollars) or by irrevocable written notice (via a written Borrowing Request signed by the Borrower) Euros, not later than 11:00~~9:00 a.m., ~~Local Time, four (4~~ (New York City time) two (2) Business Days ~~(before the date of the proposed Borrowing, (iii) in the case of a Eurocurrency an RFR Borrowing denominated in a Foreign Currency), in each case Sterling, not later than 9:00 a.m. (New York City time) two (2) RFR Business Days before the date of the proposed Borrowing or (b) by irrevocable written notice (via a written Borrowing Request signed by the Borrower)~~ in the case of an ABR Borrowing, not later than ~~11:00~~12:00 p.m.; (New York City time) on the date of the proposed Borrowing. Each such Borrowing Request shall specify the following information in compliance with Section 2.02:

- (i) the Agreed Currency and aggregate principal amount of the requested Borrowing;
- (ii) the date of such Borrowing, which shall be a Business Day;
- (iii) whether such Borrowing is to be an ABR Borrowing ~~or, a Eurocurrency Term Benchmark Borrowing or an RFR~~ Borrowing;
- (iv) in the case of a Eurocurrency Term Benchmark Borrowing, the ~~Agreed Currency and~~ initial Interest Period to be applicable thereto, which shall be a period contemplated by the definition of the term "Interest Period"; and
- (v) the location and number of the Borrower's account to which funds are to be disbursed, which shall comply with the requirements of Section 2.07.

If no election as to the currency of a Borrowing is specified, then the requested Borrowing shall be made in Dollars. If no election as to the Type of Revolving Borrowing is specified, then, in the case of a Borrowing denominated in Dollars, the requested Revolving Borrowing shall be an ABR Borrowing. If no Interest Period is specified with respect to any requested Eurocurrency Term Benchmark Revolving Borrowing, then the Borrower shall be deemed to have selected an Interest Period of one month's duration. Promptly following receipt of a Borrowing Request in accordance with this Section, the Administrative Agent shall advise each Lender of the details thereof and of the amount of such Lender's Loan to be made as part of the requested Borrowing.

SECTION 1.04. ~~Determination of Dollar Amounts. The Administrative Agent will determine the Dollar Amount of:~~
[Reserved].

~~(a) any Loan denominated in a Foreign Currency, on each of the following: (i) the date of the Borrowing of such Loan and (ii) each date of a conversion or continuation of such Loan pursuant to the terms of this Agreement;~~

~~(b) any Letter of Credit denominated in a Foreign Currency, on each of the following: (i) the date on which such Letter of Credit is issued, (ii) the first Business Day of each~~

~~calendar month and (iii) the date of any amendment of such Letter of Credit that has the effect of increasing the face amount thereof, and~~

~~(c) any Credit Event, on any additional date as the Administrative Agent may determine at any time when an Event of Default exists.~~

~~Each day upon or as of which the Administrative Agent determines Dollar Amounts as described in the preceding clauses (a), (b) and (c) is herein described as a "Computation Date" with respect to each Credit Event for which a Dollar Amount is determined on or as of such day.~~

SECTION 1.05. Swingline Loans. Subject to the terms and conditions set forth herein, the Swingline Lender may agree, but shall have no obligation, to make Swingline Loans in Dollars to the Borrower from time to time during the Availability Period, in an aggregate principal amount at any time outstanding that will not result in (i) the aggregate principal amount of outstanding Swingline Loans exceeding the Swingline Sublimit, (ii) the Swingline Lender's Revolving Credit Exposure exceeding its Commitment or (iii) the Dollar Amount of the Total Revolving Credit Exposure exceeding the Aggregate Commitment; provided that the Swingline Lender shall not be required to make a Swingline Loan to refinance an outstanding Swingline Loan. Within the foregoing limits and subject to the terms and conditions set forth herein, the Borrower may borrow, prepay and reborrow Swingline Loans.

(b) To request a Swingline Loan, the Borrower shall notify the Administrative Agent of such request by irrevocable written notice (via a written Borrowing Request in a form approved by the Administrative Agent and signed by a Responsible Officer of the Borrower), not later than 12:00 noon, (New York City time,) on the day of a proposed Swingline Loan. Each such notice shall be in a form approved by the Administrative Agent, shall be irrevocable and shall specify the requested date (which shall be a Business Day) and amount of the requested Swingline Loan. The Administrative Agent will promptly advise the Swingline Lender of any such notice received from the Borrower. The Swingline Lender shall make each Swingline Loan available to the Borrower by means of a credit to an account of the Borrower with the Administrative Agent designated for such purpose (or, in the case of a Swingline Loan made to finance the reimbursement of an LC Disbursement as provided in Section 2.06(e), by remittance to the Issuing Bank) by 3:00 p.m. (New York City time,) on the requested date of such Swingline Loan.

(c) The Swingline Lender may by written notice given to the Administrative Agent require the Lenders to acquire participations in all or a portion of the Swingline Loans outstanding. Such notice shall specify the aggregate amount of Swingline Loans in which Lenders will participate. Promptly upon receipt of such notice, the Administrative Agent will give notice thereof to each Lender, specifying in such notice such Lender's Applicable Percentage of such Swingline Loan or Loans. Each Lender hereby absolutely and unconditionally agrees, promptly upon receipt of such notice from the Administrative Agent (and in any event, if such notice is received by 12:00 noon, (New York City time,) on a Business Day, no later than 5:00 p.m. (New York City time,) on such Business Day and if received after 12:00 noon, (New York City time,) on a Business Day, no later than 10:00 a.m. (New York City time,) on the immediately succeeding Business Day), to pay to the Administrative Agent, for the account of the Swingline Lender, such Lender's Applicable Percentage of such Swingline Loan or Loans. Each Lender acknowledges and agrees that its obligation to acquire participations in Swingline Loans pursuant to this paragraph is absolute and unconditional and shall not be affected by any circumstance whatsoever, including the occurrence and continuance of a Default or reduction or termination of the Commitments, and that each such payment shall be made without any offset, abatement, withholding or reduction whatsoever. Each Lender shall comply with its obligation under this paragraph by wire transfer of immediately available funds, in the same manner as provided in Section 2.07 with respect to Loans made by such Lender (and Section 2.07 shall apply, mutatis mutandis, to the payment obligations of the Lenders), and the Administrative Agent shall promptly pay to the Swingline Lender the amounts so received by it from the Lenders. The Administrative Agent shall notify the Borrower of any participations in any Swingline Loan acquired pursuant to this paragraph, and thereafter payments in respect of such Swingline Loan shall be made to the Administrative Agent and not to the Swingline Lender. Any amounts received by the Swingline Lender from the Borrower (or other party on behalf of the Borrower) in respect of a Swingline Loan after receipt by the Swingline Lender of the proceeds of a sale of participations therein shall be promptly remitted to the Administrative Agent; any such amounts

received by the Administrative Agent shall be promptly remitted by the Administrative Agent to the Lenders that shall have made their payments pursuant to this paragraph and to the Swingline Lender, as their interests may appear; provided that any such payment so remitted shall be repaid to the Swingline Lender or to the Administrative Agent, as applicable, if and to the extent such payment is required to be refunded to the Borrower for any reason. The purchase of participations in a Swingline Loan pursuant to this paragraph shall not relieve the Borrower of any default in the payment thereof.

(d) The Swingline Lender may be replaced at any time by written agreement among the Borrower, the Administrative Agent, the replaced Swingline Lender and the successor Swingline Lender. The Administrative Agent shall notify the Lenders of any such replacement of the Swingline Lender. At the time any such replacement shall become effective, the Borrower shall pay all unpaid interest accrued for the account of the replaced Swingline Lender pursuant to Section 2.13(a). From and after the effective date of any such replacement, (i) the successor Swingline Lender shall have all the rights and obligations of the replaced Swingline Lender under this Agreement with respect to Swingline Loans made thereafter and (ii) references herein to the term "Swingline Lender" shall be deemed to refer to such successor or to any previous Swingline Lender, or to such successor and all previous Swingline Lenders, as the context shall require. After the replacement of a Swingline Lender hereunder, the replaced Swingline Lender shall remain a party hereto and shall continue to have all the rights and obligations of a Swingline Lender under this Agreement with respect to Swingline Loans made by it prior to its replacement, but shall not be required to make additional Swingline Loans.

(e) Subject to the appointment and acceptance of a successor Swingline Lender, the Swingline Lender may resign as a Swingline Lender at any time upon thirty (30) days' prior written notice to the Administrative Agent, the Borrower and the Lenders, in which case, such Swingline Lender shall be replaced in accordance with Section 2.05(d) above.

SECTION 1.06. Letters of Credit. General. Subject to the terms and conditions set forth herein, the Borrower may request the issuance of Letters of Credit denominated in Agreed Currencies as the applicant thereof for the support of its or its Subsidiaries' obligations, in a form reasonably acceptable to the Administrative Agent and the Issuing Bank, at any time and from time to time during the Availability Period. All Existing Letters of Credit shall be deemed to have been issued pursuant hereto, and from and after the Effective Date, shall be governed by the terms and conditions hereof.

(b) Notice of Issuance, Amendment, Extension; Certain Conditions. To request the issuance of a Letter of Credit (or the amendment or extension of an outstanding Letter of Credit), the Borrower shall hand deliver or telecopy (or transmit by electronic communication, if arrangements for doing so have been approved by the Issuing Bank) to the Issuing Bank and the Administrative Agent (reasonably in advance of the requested date of issuance, amendment or extension, but in any event no less than three (3) Business Days) a notice requesting the issuance of a Letter of Credit, or identifying the Letter of Credit to be amended or extended, and specifying the date of issuance, amendment or extension (which shall be a Business Day), the date on which such Letter of Credit is to expire (which shall comply with paragraph (c) of this Section), the amount of such Letter of Credit, the Agreed Currency applicable thereto, the name and address of the beneficiary thereof and such other information as shall be necessary to prepare, amend or extend such Letter of Credit. In addition, as a condition to any such Letter of Credit issuance, the Borrower shall have entered into a continuing agreement (or other letter of credit agreement) for the issuance of letters of credit and/or shall submit a letter of credit application, in each case, as required by the Issuing Bank and using the Issuing Bank's standard form (each, a "Letter of Credit Agreement"). In the event of any inconsistency between the terms and conditions of this Agreement and the terms and conditions of any Letter of Credit Agreement, the terms and conditions of this Agreement shall control. A Letter of Credit shall be issued, amended or extended only if (and upon issuance, amendment or extension of each Letter of Credit the Borrower shall be deemed to represent and warrant that), after giving effect to such issuance, amendment or extension subject to Sections 2.04 and 2.11(b), (i) the ~~Dollar Amount~~ amount of the LC Exposure shall not exceed \$10,000,000, (ii) the ~~Dollar Amount of the~~ Total Revolving Credit Exposure shall not exceed the Aggregate Commitment, (iii) ~~the Dollar Amount of~~ each Lender's Revolving Credit Exposure shall not exceed such Lender's Commitment, and (iv) ~~the Dollar Amount of~~ the total outstanding Revolving Loans and LC Exposure, in each case, denominated in Foreign Currencies, shall not exceed the Foreign Currency Sublimit.

The Issuing Bank shall not be under any obligation to issue any Letter of Credit if:

~~(i)~~ (i) any order, judgment or decree of any Governmental Authority or arbitrator shall by its terms purport to enjoin or restrain the Issuing Bank from issuing such Letter of Credit, or any law applicable to the Issuing Bank shall prohibit, or require that the Issuing Bank refrain from, the issuance of letters of credit generally or such Letter of Credit in particular or shall impose upon the Issuing Bank with respect to such Letter of Credit any restriction, reserve or capital requirement (for which the Issuing Bank is not otherwise compensated hereunder) not in effect on the Effective Date, or shall impose upon the Issuing Bank any unreimbursed loss, cost or expense that was not applicable on the Effective Date and that the Issuing Bank in good faith deems material to it; or

~~(ii)~~ (ii) the issuance of such Letter of Credit would violate one or more policies of the Issuing Bank applicable to letters of credit generally.

(c) Expiration Date. Each Letter of Credit shall expire (or be subject to termination by notice from the Issuing Bank to the beneficiary thereof) at or prior to the close of business on the earlier of (i) the date one year after the date of the issuance of such Letter of Credit (or, in the case of any ~~or~~ extension of the expiration date thereof, one year after such extension) and (ii) the date that is five (5) Business Days prior to the Maturity Date; provided that any Letter of Credit with a one-year tenor may contain customary automatic extension provisions agreed upon by the Borrower and the Issuing Bank that provide for the extension thereof for additional one-year periods (which shall in no event extend beyond the date referenced in clause (ii) above), subject to a right on the part of the Issuing Bank to prevent any such extension from occurring by giving notice to the beneficiary in advance of any such extension.

(d) Participations. By the issuance of a Letter of Credit (or an amendment to a Letter of Credit increasing the amount thereof) and without any further action on the part of the Issuing Bank or the Lenders, the Issuing Bank hereby grants to each Lender, and each Lender hereby acquires from the Issuing Bank, a participation in such Letter of Credit equal to such Lender's Applicable Percentage of the aggregate amount available to be drawn under such Letter of Credit. In consideration and in furtherance of the foregoing, each Lender hereby absolutely and unconditionally agrees to pay to the Administrative Agent, for the account of the Issuing Bank, such Lender's Applicable Percentage of each LC Disbursement made by the Issuing Bank and not reimbursed by the Borrower on the date due as provided in paragraph (e) of this Section, or of any reimbursement payment required to be refunded to the Borrower for any reason, including after the Maturity Date. Each such payment shall be made without any offset, abatement, withholding or reduction whatsoever. Each Lender acknowledges and agrees that its obligation to acquire participations pursuant to this paragraph in respect of Letters of Credit is absolute and unconditional and shall not be affected by any circumstance whatsoever, including any amendment or extension of any Letter of Credit or the occurrence and continuance of a Default or reduction or termination of the Commitments.

(e) Reimbursement. If the Issuing Bank shall make any LC Disbursement in respect of a Letter of Credit, the Borrower shall reimburse such LC Disbursement by paying to the Administrative Agent ~~in Dollars the Dollar Amount~~ an amount in the currency of such LC Disbursement equal to such LC Disbursement, ~~calculated as of the date the Issuing Bank made such LC Disbursement (or if the Issuing Bank shall so elect in its sole discretion by notice to the Borrower, in such other Agreed Currency which was paid by the Issuing Bank pursuant to such LC Disbursement in an amount equal to such LC Disbursement)~~ not later than 12:00 noon, ~~Local Time, (New York City time)~~ on the Business Day immediately following the ~~Business Day that date~~ day that the Borrower ~~shall have received notice of~~ receives such notice; provided that, (x) if such LC Disbursement, provided that is denominated in Dollars, the Borrower may, subject to the conditions to borrowing set forth herein, request in accordance with Section 2.03 or 2.05 that such payment be financed with (i) to the extent such LC Disbursement was made in Dollars, an ABR Revolving Borrowing, Eurocurrency Revolving Borrowing or Swingline Loan in an equivalent amount of such LC Disbursement or (y) if such LC Disbursement is denominated in a Foreign Currency, the Borrower may, subject to the conditions to borrowing set forth herein, request in accordance with Section 2.03 that such payment be converted into an equivalent amount of an ABR Revolving Borrowing

~~denominated in~~ Dollars in an amount equal to ~~such LC Disbursement or (ii) to the extent that such LC Disbursement was made in a~~ the Dollar Amount of such Foreign Currency, ~~a Eurocurrency Revolving Borrowing in such Foreign Currency in an amount equal to such LC Disbursement~~ and, in each case, to the extent so financed, the Borrower's obligation to make such payment shall be discharged and replaced by the resulting ABR Revolving Borrowing ~~Eurocurrency Revolving Borrowing~~ or Swingline Loan, as applicable. If the Borrower fails to make such payment when due, the Administrative Agent shall notify each Lender of the applicable LC Disbursement, the payment then due from the Borrower in respect thereof and such Lender's Applicable Percentage thereof. Promptly following receipt of such notice, each Lender shall pay to the Administrative Agent its Applicable Percentage of the payment then due from the Borrower, in the same manner as provided in Section 2.07 with respect to Loans made by such Lender (and Section 2.07 shall apply, mutatis mutandis, to the payment obligations of the Lenders), and the Administrative Agent shall promptly pay to the Issuing Bank the amounts so received by it from the Lenders. Promptly following receipt by the Administrative Agent of any payment from the Borrower pursuant to this paragraph, the Administrative Agent shall distribute such payment to the Issuing Bank or, to the extent that Lenders have made payments pursuant to this paragraph to reimburse the Issuing Bank, then to such Lenders and the Issuing Bank as their interests may appear. Any payment made by a Lender pursuant to this paragraph to reimburse the Issuing Bank for any LC Disbursement (other than the funding of ABR Revolving Loans or a Swingline Loan as contemplated above) shall not constitute a Loan and shall not relieve the Borrower of its obligation to reimburse such LC Disbursement. If the Borrower's reimbursement of, or obligation to reimburse, any amounts in any Foreign Currency would subject the Administrative Agent, the Issuing Bank or any Lender to any stamp duty, ad valorem charge or similar tax that would not be payable if such reimbursement were made or required to be made in Dollars, the Borrower shall, at its option, either (x) pay the amount of any such tax requested by the Administrative Agent, the Issuing Bank or the relevant Lender or (y) reimburse each LC Disbursement made in such Foreign Currency in Dollars, in an amount equal to the Dollar Amount thereof calculated on the date such LC Disbursement is made.

(f) Obligations Absolute. The Borrower's obligation to reimburse LC Disbursements as provided in paragraph (e) of this Section shall be absolute, unconditional and irrevocable, and shall be performed strictly in accordance with the terms of this Agreement under any and all circumstances whatsoever and irrespective of (i) any lack of validity or enforceability of any Letter of Credit, any Letter of Credit Agreement or this Agreement, or any term or provision therein or herein, (ii) any draft or other document presented under a Letter of Credit proving to be forged, fraudulent or invalid in any respect or any statement therein being untrue or inaccurate in any respect, (iii) any payment by the Issuing Bank under a Letter of Credit against presentation of a draft or other document that does not comply with the terms of such Letter of Credit, ~~or~~ (iv) any other event or circumstance whatsoever, whether or not similar to any of the foregoing, that might, but for the provisions of this Section, constitute a legal or equitable discharge of, or provide a right of setoff against, the Borrower's obligations hereunder or (y) any adverse change in the relevant exchange rates or in the availability of the relevant Foreign Currency to the Borrower or any Subsidiary or in the relevant currency markets generally. Neither the Administrative Agent, the Lenders nor the Issuing Bank, nor any of their respective Related Parties, shall have any liability or responsibility by reason of or in connection with the issuance or transfer of any Letter of Credit or any payment or failure to make any payment thereunder (irrespective of any of the circumstances referred to in the preceding sentence), or any error, omission, interruption, loss or delay in transmission or delivery of any draft, notice or other communication under or relating to any Letter of Credit (including any document required to make a drawing thereunder), any error in interpretation of technical terms, any error in translation or any consequence arising from causes beyond the control of the Issuing Bank; provided that the foregoing shall not be construed to excuse the Issuing Bank from liability to the Borrower to the extent of any direct damages (as opposed to special, indirect, consequential or punitive damages, claims in respect of which are hereby waived by the Borrower to the extent permitted by applicable law) suffered by the Borrower that are caused by the Issuing Bank's failure to exercise care when determining whether drafts and other documents presented under a Letter of Credit comply with the terms thereof. The parties hereto expressly agree that, in the absence of gross negligence or willful misconduct on the part of the Issuing Bank (as finally determined by a court of competent jurisdiction), the Issuing Bank shall be deemed to have exercised care in each such determination. In furtherance of the foregoing and without limiting the generality thereof, the parties agree that, with respect to documents presented which appear on their face to be in substantial compliance with the terms of a Letter of Credit, the Issuing Bank may, in its sole discretion, either accept and make payment upon such documents

without responsibility for further investigation, regardless of any notice or information to the contrary, or refuse to accept and make payment upon such documents if such documents are not in strict compliance with the terms of such Letter of Credit.

(g) Disbursement Procedures. The Issuing Bank shall, within the time allowed by applicable law or the specific terms of the Letter of Credit following its receipt thereof, examine all documents purporting to represent a demand for payment under a Letter of Credit. The Issuing Bank shall promptly after such examination notify the Administrative Agent and the Borrower by telephone (confirmed by telecopy or electronic mail) of such demand for payment and whether the Issuing Bank has made or will make an LC Disbursement thereunder; provided that any failure to give or delay in giving such notice shall not relieve the Borrower of its obligation to reimburse the Issuing Bank and the Lenders with respect to any such LC Disbursement.

(h) Interim Interest. If the Issuing Bank shall make any LC Disbursement, then, unless the Borrower shall reimburse such LC Disbursement in full in the applicable currency within one Business Day of the date on which such LC Disbursement is made, the unpaid amount thereof shall bear interest, for each day from and including the date such LC Disbursement is made to but excluding the date that the reimbursement is due and payable, at the rate per annum then applicable to ABR Revolving Loans (or in the case such LC Disbursement is denominated in a Foreign Currency, at the Overnight ~~Foreign Currency~~ Rate for such Agreed Currency plus the then effective Applicable Rate with respect to ~~Eurocurrency~~ Term Benchmark Revolving Loans) and such interest shall be due and payable on the date when such reimbursement is payable; provided that, if the Borrower fails to reimburse such LC Disbursement when due pursuant to paragraph (e) of this Section, then Section 2.13(~~ed~~) shall apply. Interest accrued pursuant to this paragraph shall be for the account of the Issuing Bank, except that interest accrued on and after the date of payment by any Lender pursuant to paragraph (e) of this Section to reimburse the Issuing Bank shall be for the account of such Lender to the extent of such payment.

(i) Replacement and Resignation of the Issuing Bank. ~~(A)-(A)~~ (A) The Issuing Bank may be replaced at any time by written agreement among the Borrower, the Administrative Agent, the replaced Issuing Bank and the successor Issuing Bank. The Administrative Agent shall notify the Lenders of any such replacement of the Issuing Bank. At the time any such replacement shall become effective, the Borrower shall pay all unpaid fees accrued for the account of the replaced Issuing Bank pursuant to Section 2.12(b). From and after the effective date of any such replacement, (i) the successor Issuing Bank shall have all the rights and obligations of the Issuing Bank under this Agreement with respect to Letters of Credit to be issued thereafter and (ii) references herein to the term "Issuing Bank" shall be deemed to refer to such successor or to any previous Issuing Bank, or to such successor and all previous Issuing Banks, as the context shall require. After the replacement of an Issuing Bank hereunder, the replaced Issuing Bank shall remain a party hereto and shall continue to have all the rights and obligations of an Issuing Bank under this Agreement with respect to Letters of Credit then outstanding and issued by it prior to such replacement, but shall not be required to issue additional Letters of Credit or extend or otherwise amend any existing Letter of Credit.

~~(B)~~ (B) Subject to the appointment and acceptance of a successor Issuing Bank, the Issuing Bank may resign as the Issuing Bank at any time upon thirty days' prior written notice to the Administrative Agent, the Borrower and the Lenders, in which case, the resigning Issuing Bank shall be replaced in accordance with Section 2.06(i)(A) above.

(j) Cash Collateralization. If any Event of Default shall occur and be continuing, on the Business Day that the Borrower receives notice from the Administrative Agent or the Required Lenders (or, if the maturity of the Loans has been accelerated, Lenders with LC Exposure representing greater than 50% of the total LC Exposure) demanding the deposit of cash collateral pursuant to this paragraph, the Borrower shall deposit in an account with the Administrative Agent, in the name of the Administrative Agent and for the benefit of the Lenders (the "LC Collateral Account"), an amount in cash equal to 105% of the ~~Dollar Amount of the~~ LC Exposure in the applicable currencies as of such date plus any accrued and unpaid interest thereon; provided that ~~(i) the portions of such amount attributable to undrawn Foreign Currency Letters of Credit or LC Disbursements in a Foreign Currency that the Borrower is not late in reimbursing shall be deposited in the applicable Foreign~~

~~Currencies in the actual amounts of such undrawn Letters of Credit and LC Disbursements and (ii)~~ the obligation to deposit such cash collateral shall become effective immediately, and such deposit shall become immediately due and payable, without demand or other notice of any kind, upon the occurrence of any Event of Default with respect to the Borrower described in Section 7.01(h) or 7.01(i). ~~For the purposes of this paragraph, the Dollar Amount of the Foreign Currency LC Exposure shall be calculated on the date notice demanding cash collateralization is delivered to the Borrower.~~ The Borrower also shall deposit cash collateral pursuant to this paragraph as and to the extent required by Section 2.11 ~~(b)~~. Such deposit shall be held by the Administrative Agent as collateral for the payment and performance of the ~~Secured Obligations~~ obligations of the Borrower under this Agreement. In addition, and without limiting the foregoing or Section 2.06(c), if any LC Exposure ~~remain~~ remains outstanding after the expiration date specified in Section 2.06(c), the Borrower shall immediately deposit into the LC Collateral Account an amount in cash equal to 105% ~~of the Dollar Amount~~ of such LC Exposure as of such date plus any accrued and unpaid interest thereon. The Administrative Agent shall have exclusive dominion and control, including the exclusive right of withdrawal, over such account and the Borrower hereby grants the Administrative Agent a security interest in the ~~LC~~ Collateral Account. Other than any interest earned on the investment of such deposits, which investments shall be made at the option and sole discretion of the Administrative Agent and at the Borrower's risk and expense, such deposits shall not bear interest. Interest or profits, if any, on such investments shall accumulate in such account. Moneys in such account shall be applied by the Administrative Agent to reimburse the Issuing Bank for LC Disbursements for which it has not been reimbursed, together with related fees, costs and customary processing charges, and, to the extent not so applied, shall be held for the satisfaction of the reimbursement obligations of the Borrower for the LC Exposure at such time or, if the maturity of the Loans has been accelerated (but subject to the consent of Lenders with LC Exposure representing greater than 50% of the total LC Exposure), be applied to satisfy other Secured Obligations. If the Borrower is required to provide an amount of cash collateral hereunder as a result of the occurrence of an Event of Default, such amount (to the extent not applied as aforesaid) shall be returned to the Borrower within three (3) Business Days after all Events of Default have been cured or waived. If the Borrower is required to provide an amount of cash collateral hereunder pursuant to Section 2.11(b), such amount (to the extent not applied as aforesaid) shall be returned to the Borrower as and to the extent that, immediately after giving effect to such return, the Total Revolving Credit Exposure would not exceed the Aggregate Commitment, and no Event of Default shall have occurred and be continuing.

(k) Letters of Credit Issued for Account of Subsidiaries. Notwithstanding that a Letter of Credit issued or outstanding hereunder supports any obligations of, or is for the account of, a Subsidiary, or states that a Subsidiary is the "account party," "applicant," "customer," "instructing party," or the like of or for such Letter of Credit, and without derogating from any rights of the Issuing Bank (whether arising by contract, at law, in equity or otherwise) against such Subsidiary in respect of such Letter of Credit, the Borrower (i) shall reimburse, indemnify and compensate the Issuing Bank hereunder for such Letter of Credit (including to reimburse any and all drawings thereunder) as if such Letter of Credit had been issued solely for the account of the Borrower and (ii) irrevocably waives any and all defenses that might otherwise be available to it as a guarantor or surety of any or all of the obligations of such Subsidiary in respect of such Letter of Credit. The Borrower hereby acknowledges that the issuance of such Letters of Credit for its Subsidiaries inures to the benefit of the Borrower, and that the Borrower's business derives substantial benefits from the businesses of such Subsidiaries.

(l) Issuing Bank Agreements. Each Issuing Bank agrees that, unless otherwise requested by the Administrative Agent, such Issuing Bank shall report in writing to the Administrative Agent (i) on or prior to each Business Day on which such Issuing Bank expects to issue, amend or extend any Letter of Credit, the date of such issuance, amendment or extension, and the aggregate face amount and currency of the Letters of Credit to be issued, amended or extended by it and outstanding after giving effect to such issuance, amendment or extension occurred (and whether the amount thereof changed), (ii) on each Business Day on which such Issuing Bank pays any amount in respect of one or more drawings under Letters of Credit, the date of such payment(s) and the amount ~~and currency~~ of such payment(s), (iii) on any Business Day on which the Borrower fails to reimburse any amount required to be reimbursed to such Issuing Bank on such day, the date of such failure and the amount and currency of such payment in respect of Letters of Credit and (iv) on any other Business Day, such other information as the Administrative Agent shall reasonably request.

SECTION 1.07. Funding of Borrowings. Each Lender shall make each Loan to be made by it hereunder on the proposed date thereof solely by wire transfer of immediately available funds ~~(i) in the case of Loans denominated in Dollars, by 12:00 noon, (New York City time), (or in the case of an ABR Borrowing, prior to 1:00 p.m. (New York City time)),~~ to the account of the Administrative Agent most recently designated by it for such purpose by notice to the Lenders ~~and (ii) in the case of each Loan denominated in a Foreign Currency, by 12:00 noon, Local Time, in the city of the Administrative Agent's Eurocurrency Payment Office for such currency and at such Eurocurrency Payment Office for such currency;~~ provided that Swingline Loans shall be made as provided in Section 2.05. Except in respect of the provisions of this Agreement covering the reimbursement of Letters of Credit, the Administrative Agent will make such Loans available to the Borrower by promptly crediting the funds so received in the aforesaid account of the Administrative Agent to ~~(x) an account of the Borrower maintained with the Administrative Agent in New York City and designated by the Borrower in the applicable Borrowing Request, in the case of Loans denominated in Dollars and (y) an account of the Borrower in the relevant jurisdiction and designated by the Borrower in the applicable Borrowing Request, in the case of Loans denominated in a Foreign Currency;~~ provided that ABR Revolving Loans made to finance the reimbursement of an LC Disbursement as provided in Section 2.06(e) shall be remitted by the Administrative Agent to the Issuing Bank.

(b) Unless the Administrative Agent shall have received notice from a Lender prior to the proposed date of any Borrowing (or in the case of an ABR Borrowing, prior to 12:00 noon, (New York City time,)) on the date of such Borrowing) that such Lender will not make available to the Administrative Agent such Lender's share of such Borrowing, the Administrative Agent may assume that such Lender has made such share available on such date in accordance with paragraph (a) of this Section and may, in reliance upon such assumption, make available to the Borrower a corresponding amount. In such event, if a Lender has not in fact made its share of the applicable Borrowing available to the Administrative Agent, then the applicable Lender and the Borrower severally agree to pay to the Administrative Agent forthwith on demand such corresponding amount with interest thereon, for each day from and including the date such amount is made available to the Borrower to but excluding the date of payment to the Administrative Agent, at (i) in the case of such Lender, the greater of the ~~NYFRB~~ Applicable Overnight Rate and a rate determined by the Administrative Agent in accordance with banking industry rules on interbank compensation ~~(including without limitation the Overnight Foreign Currency Rate in the case of Loans denominated in a Foreign Currency)~~ or (ii) in the case of the Borrower, the interest rate applicable to ABR Loans or in the case of Foreign Currencies, in accordance with such market practice, in each case, as applicable. If such Lender pays such amount to the Administrative Agent, then such amount shall constitute such Lender's Loan included in such Borrowing.

SECTION 1.08. Interest Elections. Each Borrowing initially shall be of the Type and Agreed Currency specified in the applicable Borrowing Request and, in the case of a ~~Eurocurrency~~ Term Benchmark Borrowing, shall have an initial Interest Period as specified in such Borrowing Request. Thereafter, the Borrower may elect to convert such Borrowing to a different Type or to continue such Borrowing and, in the case of a ~~Eurocurrency~~ Term Benchmark Borrowing, may elect Interest Periods therefor, all as provided in this Section. The Borrower may elect different options with respect to different portions of the affected Borrowing, in which case each such portion shall be allocated ratably among the Lenders holding the Loans comprising such Borrowing, and the Loans comprising each such portion shall be considered a separate Borrowing. This Section shall not apply to Swingline Borrowings, which may not be converted or continued.

(b) To make an election pursuant to this Section, the Borrower shall notify the Administrative Agent of such election (by irrevocable written notice via an Interest Election Request signed by a Responsible Officer of the Borrower) by the time that a Borrowing Request would be required under Section 2.03 if the Borrower were requesting a Borrowing of the Type resulting from such election to be made on the effective date of such election. Notwithstanding any contrary provision herein, this Section shall not be construed to permit the Borrower to (i) change the currency of any Borrowing, (ii) elect an Interest Period for Eurocurrency Loans that does not comply with Section 2.02(d) or (iii) convert any Borrowing to a Borrowing of a Type not available under such Borrowing.

(c) Each Interest Election Request shall specify the following information in compliance with Section 2.02:

(i) the Agreed Currency and the principal amount of the Borrowing to which such Interest Election Request applies and, if different options are being elected with respect to different portions thereof, the portions thereof to be allocated to each resulting Borrowing (in which case the information to be specified pursuant to clauses (iii) and (iv) below shall be specified for each resulting Borrowing);

(ii) the effective date of the election made pursuant to such Interest Election Request, which shall be a Business Day;

(iii) whether the resulting Borrowing is to be an ABR Borrowing ~~or a Eurocurrency~~(in the case of Borrowings denominated in Dollars) or a Term Benchmark Borrowing or an RFR Borrowing; and

(iv) if the resulting Borrowing is a ~~Eurocurrency~~Term Benchmark Borrowing, the Interest Period ~~and Agreed Currency~~ to be applicable thereto after giving effect to such election, which ~~Interest Period~~ shall be a period contemplated by the definition of the term "Interest Period".

If any such Interest Election Request requests a ~~Eurocurrency~~Term Benchmark Borrowing but does not specify an Interest Period, then the Borrower shall be deemed to have selected an Interest Period of one month's duration.

(d) Promptly following receipt of an Interest Election Request, the Administrative Agent shall advise each Lender of the details thereof and of such Lender's portion of each resulting Borrowing.

(e) If the Borrower fails to deliver a timely Interest Election Request with respect to a ~~Eurocurrency~~Term Benchmark Borrowing in Dollars prior to the end of the Interest Period applicable thereto, then, unless such Borrowing is repaid as provided herein, at the end of such Interest Period ~~(i) in the case of a Borrowing denominated in Dollars, such Borrowing shall be converted to an ABR Borrowing and (ii) in the case of a Borrowing denominated in a Foreign Currency in respect of which~~deemed to have an Interest Period that is the same as the immediately preceding Interest Period. If the Borrower shall have failed fails to deliver ~~ana~~ a timely and complete Interest Election Request with respect to a Term Benchmark Borrowing in a Foreign Currency prior to the ~~third (3rd) Business Day preceding the~~ end of ~~such~~the Interest Period, ~~such~~ therefor, then, unless such Term Benchmark Borrowing is repaid as provided herein, the Borrower shall be deemed to have selected that such Term Benchmark Borrowing shall automatically ~~continue as a Eurocurrency~~be continued as a Term Benchmark Borrowing in ~~the same~~its original Agreed Currency with an Interest Period of one month ~~unless such Eurocurrency Borrowing is or was repaid in accordance with Section 2.11~~at the end of such Interest Period. Notwithstanding any contrary provision hereof, if an Event of Default has occurred and is continuing and the Administrative Agent, at the request of the Required Lenders, so notifies the Borrower, then, so long as an Event of Default is continuing (i) no outstanding Revolving Borrowing ~~denominated in Dollars~~ may be converted to or continued as a ~~Eurocurrency~~Term Benchmark Borrowing; and (ii) unless repaid, ~~(x)~~ each EurocurrencyTerm Benchmark Borrowing and each RFR Borrowing, in each case denominated in Dollars shall be converted to an ABR Borrowing at the end of the Interest Period applicable thereto and ~~(iii) unless repaid, each Eurocurrency~~ each Term Benchmark Borrowing and each RFR Borrowing, in each case denominated in a Foreign Currency shall ~~automatically be continued as a Eurocurrency Borrowing with an Interest Period of one month~~bear interest at the Central Bank Rate for the applicable Agreed Currency plus the CBR Spread; provided that, if the Administrative Agent determines (which determination shall be conclusive and binding absent manifest error) that the Central Bank Rate for the applicable Agreed Currency cannot be determined, any outstanding affected Term Benchmark Loans denominated in any Agreed Currency other than Dollars shall either be (A) converted to an ABR Borrowing denominated in Dollars (in an amount equal to the Dollar Amount of such Foreign Currency) at the end of the Interest Period, as applicable, therefor or (B) prepaid

at the end of the applicable Interest Period, as applicable, in full; provided that if no election is made by the Borrower by the earlier of (x) the date that is three Business Days after receipt by the Borrower of such notice and (y) the last day of the current Interest Period for the applicable Term Benchmark Loan, the Borrower shall be deemed to have elected clause (A) above.

SECTION 1.09. Termination and Reduction of Commitments. Unless previously terminated, the Commitments shall terminate on the Maturity Date.

(b) The Borrower may at any time terminate, or from time to time reduce, the Commitments; provided that (i) each reduction of the Commitments shall be in an amount that is an integral multiple of \$1,000,000 and not less than \$500,000 and (ii) the Borrower shall not terminate or reduce the Commitments if, after giving effect to any concurrent prepayment of the Loans in accordance with Section 2.11, (A) the Dollar Amount of any Lender's Revolving Credit Exposure would exceed its Commitment or (B) the Dollar Amount of the Total Revolving Credit Exposure would exceed the Aggregate Commitment.

(c) The Borrower shall notify the Administrative Agent of any election to terminate or reduce the Commitments under paragraph (b) of this Section at least three (3) Business Days prior to the effective date of such termination or reduction, specifying such election and the effective date thereof. Promptly following receipt of any notice, the Administrative Agent shall advise the Lenders of the contents thereof. Each notice delivered by the Borrower pursuant to this Section shall be irrevocable; provided that a notice of termination of the Commitments delivered by the Borrower may state that such notice is conditioned upon the effectiveness of other credit facilities or other transactions specified therein, in which case such notice may be revoked by the Borrower (by notice to the Administrative Agent on or prior to the specified effective date) if such condition is not satisfied. Any termination or reduction of the Commitments shall be permanent. Each reduction of the Commitments shall be made ratably among the Lenders in accordance with their respective Commitments.

SECTION 1.10. Repayment of Loans; Evidence of Debt. The Borrower hereby unconditionally promises to pay (i) to the Administrative Agent for the account of each Lender the then unpaid principal amount of each Revolving Loan on the Maturity Date in the currency of such Loan and (ii) to the Administrative Agent for the account of the Swingline Lender the then unpaid principal amount of each Swingline Loan on the earlier of the Maturity Date and the fifth (5th) Business Day after such Swingline Loan is made; provided that on each date that a Revolving Borrowing is made, the Borrower shall repay all Swingline Loans then outstanding and the proceeds of any such Borrowing shall be applied by the Administrative Agent to repay any Swingline Loans outstanding.

(b) Each Lender shall maintain in accordance with its usual practice an account or accounts evidencing the indebtedness of the Borrower to such Lender resulting from each Loan made by such Lender, including the amounts of principal and interest payable and paid to such Lender from time to time hereunder.

(c) The Administrative Agent shall maintain accounts in which it shall record (i) the amount of each Loan made hereunder, the Class, Agreed Currency and Type thereof and the Interest Period applicable thereto, (ii) the amount of any principal or interest due and payable or to become due and payable from the Borrower to each Lender hereunder and (iii) the amount of any sum received by the Administrative Agent hereunder for the account of the Lenders and each Lender's share thereof.

(d) The entries made in the accounts maintained pursuant to paragraph (b) or (c) of this Section shall be prima facie evidence of the existence and amounts of the obligations recorded therein; provided that the failure of any Lender or the Administrative Agent to maintain such accounts or any error therein shall not in any manner affect the Obligations.

(e) Any Lender may request that Loans made by it be evidenced by a promissory note. In such event, the Borrower shall prepare, execute and deliver to such Lender a promissory note payable to such Lender (or, if requested by such Lender, to such Lender and its registered assigns) and in the form attached hereto as Exhibit H. Thereafter, the Loans evidenced by such promissory note and

interest thereon shall at all times (including after assignment pursuant to Section 9.04) be represented by one or more promissory notes in such form.

SECTION 1.11. Prepayment of Loans.

(a) The Borrower shall have the right at any time and from time to time to prepay any Borrowing in whole or in part (without premium or penalty (but subject to break funding payments required by Section 2.16), subject to prior notice in accordance with the provisions of this Section 2.11(a). The Borrower shall notify the Administrative Agent (and, in the case of prepayment of a Swingline Loan, the Swingline Lender) by written notice of any prepayment hereunder (i) ~~(x) in the case of prepayment of a Eurocurrency Revolving Borrowing, not later than 11:00 a.m., Local Time, three (3) Business Days (in the case of a Eurocurrency) (A) a Term Benchmark~~ Borrowing denominated in Dollars) ~~or four (4) Business Days (, not later than 9:00 a.m. (New York City time) two (2) Business Days before the date of prepayment, (B) an RFR Borrowing denominated in Dollars, not later than 9:00 a.m. (New York City time), two (2) RFR Business Days before the date of prepayment and (C) a Term Benchmark Borrowing denominated in euro, not later than 9:00 a.m. (New York City time) two (2) Business Days before the date of prepayment, (y) in the case of a Eurocurrency prepayment of an RFR~~ Borrowing denominated in a Foreign Currency); ~~in each case Sterling, not later than 9:00 a.m. (New York City time) two (2) RFR Business Days~~ before the date of prepayment, (ii) in the case of prepayment of an ABR ~~Revolving~~ Borrowing, not later than ~~11:00 a.m. (New York City time), one (1) Business Day before~~ 12:00 p.m. (New York City time), one (1) Business Day before on the date of prepayment or (iii) in the case of prepayment of a Swingline Loan, not later than 12:00 noon; (New York City time;) on the date of prepayment. Each such notice shall be irrevocable and shall specify the prepayment date and the principal amount of each Borrowing or portion thereof to be prepaid; provided that, if a notice of prepayment is given in connection with a conditional notice of termination of the Commitments as contemplated by Section 2.09, then such notice of prepayment may be revoked if such notice of termination is revoked in accordance with Section 2.09. Promptly following receipt of any such notice relating to a Borrowing, the Administrative Agent shall advise the Lenders of the contents thereof. Each partial prepayment of any Revolving Borrowing shall be in an amount that would be permitted in the case of an advance of a Revolving Borrowing of the same Type as provided in Section 2.02. Each prepayment of a Revolving Borrowing shall be applied ratably to the Loans included in the prepaid Borrowing. Prepayments shall be accompanied by (i) accrued interest to the extent required by Section 2.13 and (ii) any break funding payments required by Section 2.16.

(b) If at any time, (i) other than as a result of fluctuations in currency exchange rates, (A) the aggregate principal Dollar Amount of the Total Revolving Credit Exposure (calculated, with respect to those Credit Events denominated in Foreign Currencies, as of the most recent ~~Computation Revaluation~~ Date with respect to each such Credit Event) exceeds the Aggregate Commitment or (B) the aggregate principal Dollar Amount of the Total Revolving Credit Exposure denominated in Foreign Currencies (the "Foreign Currency Exposure") (so calculated), as of the most recent ~~Computation Revaluation~~ Date with respect to each such Credit Event, exceeds the Foreign Currency Sublimit or (ii) solely as a result of fluctuations in currency exchange rates, (A) the aggregate principal Dollar Amount of the Total Revolving Credit Exposure (so calculated as of the most recent Revaluation Date with respect to each such Credit Event) exceeds 105% of the Aggregate Commitment or (B) the Foreign Currency Exposure, as of the most recent ~~Computation Revaluation~~ Date with respect to each such Credit Event, exceeds 105% of the Foreign Currency Sublimit, the Borrower shall in each case immediately repay Borrowings or cash collateralize LC Exposure in an account with the Administrative Agent pursuant to Section 2.06(j), as applicable, in an aggregate principal amount sufficient to cause (x) the aggregate Dollar Amount of the Total Revolving Credit Exposure (so calculated) to be less than or equal to the Aggregate Commitment and (y) the Foreign Currency Exposure to be less than or equal to the Foreign Currency Sublimit, as applicable.

SECTION 1.12. Fees. The Borrower agrees to pay to the Administrative Agent for the account of each Lender, a commitment fee (the "Commitment Fee"), which shall accrue at the Applicable Rate applicable to the Commitment Fee on the daily amount of the Available Revolving Commitment of such Lender during the period from and including the Effective Date to but excluding the date on which such Commitment terminates. Commitment Fees accrued through and including the last day of March, June, September and December of each year shall be payable in arrears on the fifteenth (15th) day following such last day and on the date on which the Commitments terminate, commencing on the first

such date to occur after the date hereof. All Commitment Fees shall be computed on the basis of a year of 360 days and shall be payable for the actual number of days elapsed (including the first day ~~but excluding and~~ the last day of each period but excluding the date on which the Commitments terminate).

(b) The Borrower agrees to pay (i) to the Administrative Agent for the account of each Lender a participation fee with respect to its participations in each outstanding Letter of Credit, which shall accrue on the Dollar Amount of the daily maximum stated amount then available to be drawn under such Letter of Credit at the same Applicable Rate used to determine the interest rate applicable to ~~Eurocurrency Term Benchmark~~ Revolving Loans, during the period from and including the Effective Date to but excluding the later of the date on which such Lender's Commitment terminates and the date on which such Lender ceases to have any LC Exposure and (ii) to the Issuing Bank for its own account a fronting fee with respect to each Letter of Credit issued by such Issuing Bank, which shall accrue at the rate of 0.125% per annum on the Dollar Amount of the daily maximum stated amount then available to be drawn under such Letter of Credit; during the period from and including the Effective Date to but excluding the later of the date of termination of the Commitments and the date on which there ceases to be any LC Exposure with respect to Letters of Credit issued by such Issuing Bank, as well as ~~the~~such Issuing Bank's standard fees with respect to the issuance, amendment or extension of any Letter of Credit and other processing fees, and other standard costs and charges, of such Issuing bank relating the Letters of Credit as from time to time in effect. Participation fees and fronting fees accrued through and including the last day of March, June, September and December of each year shall be payable on the fifteenth (15th) day following such last day, commencing on the first such date to occur after the Effective Date; provided that all such fees shall be payable on the date on which the Commitments terminate and any such fees accruing after the date on which the Commitments terminate shall be payable on demand. Any other fees payable to the Issuing Bank pursuant to this paragraph shall be payable within ten (10) days after demand. All participation fees and fronting fees shall be computed on the basis of a year of 360 days and shall be payable for the actual number of days elapsed (including the first day but excluding the last day). ~~Participation fees and fronting fees in respect of Letters of Credit denominated in Dollars shall be paid in Dollars, and participation fees and fronting fees in respect of Letters of Credit denominated in a Foreign Currency shall be paid in Dollars in the Dollar Amount thereof.~~

(c) The Borrower agrees to pay to the Administrative Agent, for its own account, and to the Lenders, as applicable, the fees payable in the amounts and at the times separately agreed upon between the Borrower and the Administrative Agent from time to time.

(d) All fees payable hereunder shall be paid on the dates due, in Dollars (except as otherwise expressly provided in this Section 2.12) and immediately available funds, to the Administrative Agent (or to the Issuing Bank, in the case of fees payable to it) for distribution, in the case of Commitment Fees and participation fees, to the applicable Lenders. Fees paid shall not be refundable under any circumstances.

SECTION 1.13. Interest. The Loans comprising each ABR Borrowing (including each Swingline Loan) shall bear interest at the Alternate Base Rate plus the Applicable Rate.

(b) The Loans comprising each ~~Eurocurrency Term Benchmark~~ Borrowing shall bear interest at the ~~Adjusted LIBO Rate or the Adjusted EURIBO Rate, as applicable,~~applicable Relevant Rate for the Interest Period in effect for such Borrowing, plus the Applicable Rate.

(c) Each RFR Loan shall bear interest at a rate per annum equal to the applicable Adjusted Daily Simple RFR plus the Applicable Rate.

(d) ~~(e)~~ Notwithstanding the foregoing, if any principal of or interest on any Loan or any fee or other amount payable by the Borrower hereunder is not paid when due, whether at stated maturity, upon acceleration or otherwise, such overdue amount shall bear interest, after as well as before judgment, at a rate per annum equal to (i) in the case of overdue principal of any Loan, 2% plus the rate otherwise applicable to such Loan as provided in the preceding paragraphs of this Section or (ii) in the

case of any other amount, 2% plus the rate applicable to ABR Loans as provided in paragraph (a) of this Section.

(e) ~~(d)~~ Accrued interest on each Loan shall be payable in arrears on each Interest Payment Date for such Loan and upon termination of the Commitments; provided that (i) interest accrued pursuant to paragraph (e) of this Section shall be payable on demand, (ii) in the event of any repayment or prepayment of any Loan (other than a prepayment of an ABR Revolving Loan prior to the end of the Availability Period), accrued interest on the principal amount repaid or prepaid shall be payable on the date of such repayment or prepayment and (iii) in the event of any conversion of any Eurocurrency Term Benchmark Loan prior to the end of the current Interest Period therefor, accrued interest on such Loan shall be payable on the effective date of such conversion.

(f) ~~(e)~~ Interest computed by reference to the ~~LIBO Term SOFR Rate (other than, the EURIBOR Rate or the Daily Simple RFR with respect to Loans denominated in Pounds Sterling) or the EURIBO Rate Dollars~~ hereunder shall be computed on the basis of a year of 360 days. Interest computed by reference to the ~~LIBO Rate (Daily Simple RFR with respect to Loans denominated in Pounds Sterling only)~~ or the Alternate Base Rate at times when the Alternate Base Rate is based on the Prime Rate shall be computed on the basis of a year of 365 days (or 366 days in a leap year). In each case interest shall be payable for the actual number of days elapsed (including the first day but excluding the last day). All interest hereunder on any Loan shall be computed on a daily basis based upon the outstanding principal amount of such Loan as of the applicable date of determination. The applicable Alternate Base Rate, ~~Adjusted LIBO Rate, LIBO Relevant Rate, Adjusted EURIBO Rate or EURIBO Rate~~ Daily Simple RFR or Daily Simple RFR shall be determined by the Administrative Agent, and such determination shall be conclusive absent manifest error.

~~(f) Interest in respect of Loans denominated in Dollars shall be paid in Dollars, and interest in respect of Loans denominated in a Foreign Currency shall be paid in such Foreign Currency.~~

SECTION 1.14. Alternate Rate of Interest.

(a) Subject to clauses (b), (c), (d), (e); ~~and (f) and (g)~~ of this Section 2.14, if ~~prior to the commencement of any Interest Period for a Eurocurrency Borrowing:~~

(i) the Administrative Agent determines (which determination shall be conclusive ~~and binding~~ absent manifest error) (A) prior to the commencement of any Interest Period for a Term Benchmark Borrowing, that adequate and reasonable means do not exist for ascertaining the Adjusted LIBO Rate, the LIBO Rate, the Adjusted EURIBO Rate or the EURIBO any Relevant Rate or Relevant Adjusted Rate, as applicable (including because the Relevant Screen Rate is not available or published on a current basis), for the applicable Agreed Currency and such Interest Period; provided that no Benchmark Transition Event shall have occurred at such time; or (B) at any time, that adequate and reasonable means do not exist for ascertaining the applicable Adjusted Daily Simple RFR, Daily Simple RFR or RFR for the applicable Agreed Currency; or

(ii) the Administrative Agent is advised by the Required Lenders that ~~the Adjusted LIBO Rate, the LIBO Rate, the Adjusted EURIBO Rate or the EURIBO Rate, as applicable;~~ (A) prior to the commencement of any Interest Period for a Term Benchmark Borrowing, the Relevant Rate or Relevant Adjusted Rate for the applicable Agreed Currency and such Interest Period will not adequately and fairly reflect the cost to such Lenders (or Lender) of making or maintaining their Loans (or its Loan) included in such Borrowing for the applicable Agreed Currency and such Interest Period; or (B) at any time, the applicable Adjusted Daily Simple RFR, Daily Simple RFR or RFR for the applicable Agreed Currency will not adequately and fairly reflect the cost to such Lenders (or Lender) of making or maintaining their Loans (or its Loan) included in such Borrowing for the applicable Agreed Currency;

then the Administrative Agent shall give notice thereof to the Borrower and the Lenders by telephone, teletype or electronic mail as promptly as practicable thereafter and, until (x) the Administrative Agent notifies the Borrower and the Lenders that the circumstances giving rise to such notice no longer exist, ~~(i) with respect to the relevant Benchmark and (y) the Borrower delivers a new Interest Election Request in accordance with the terms of Section 2.08 or a new Borrowing Request in accordance with the terms of Section 2.03, (A) for Loans denominated in Dollars, (1) any Interest Election Request that requests the conversion of any Revolving Borrowing to, or continuation of any Revolving Borrowing as, a Eurocurrency Borrowing in the applicable currency or for the applicable Interest Period, as the case may be, shall be ineffective, (ii) if Term Benchmark Borrowing and any Borrowing Request that requests a Eurocurrency Borrowing in Dollars, such Borrowing shall be made as Term Benchmark Revolving Borrowing shall instead be deemed to be an Interest Election Request or a Borrowing Request, as applicable, for (x) an RFR Borrowing denominated in Dollars so long as the Adjusted Daily Simple RFR for Dollar Borrowings is not also the subject of Section 2.14(a)(i) or (ii) above or (y) an ABR Borrowing if the Adjusted Daily Simple RFR for Dollar Borrowings also is the subject of Section 2.14(a)(i) or (ii) above and (2) any Borrowing Request that requests an RFR Borrowing shall instead be deemed to be a Borrowing Request, as applicable, for an ABR Borrowing and (iii) if any Borrowing Request requests a Eurocurrency Borrowing~~ (B) for Loans denominated in a Foreign Currency, then such request shall be an Interest Election Request that requests the conversion of any Revolving Borrowing to, or continuation of any Revolving Borrowing as, a Term Benchmark Borrowing and any Borrowing Request that requests a Term Benchmark Borrowing or an RFR Borrowing, in each case, for the relevant Benchmark, shall be ineffective; provided that if the circumstances giving rise to such notice affect only one Type of Borrowings, then all other Types of Borrowings shall be permitted. Furthermore, if any Eurocurrency Term Benchmark Loan or RFR Loan in any Agreed Currency is outstanding on the date of the Borrower's receipt of the notice from the Administrative Agent referred to in this Section 2.14(a) with respect to a Relevant Rate applicable to such Eurocurrency Term Benchmark Loan or RFR Loan, then until (x) the Administrative Agent notifies the Borrower and the Lenders that the circumstances giving rise to such notice no longer exist, (i) if such Eurocurrency Loan is with respect to the relevant Benchmark and (y) the Borrower delivers a new Interest Election Request in accordance with the terms of Section 2.08 or a new Borrowing Request in accordance with the terms of Section 2.03, (A) for Loans denominated in Dollars, then (1) any Term Benchmark Loan shall on the last day of the Interest Period applicable to such Loan (or the next succeeding Business Day if such day is not a Business Day), such Loan shall be converted by the Administrative Agent to, and shall constitute, an ABR Loan (x) an RFR Borrowing denominated in Dollars on such day and (ii) if such Eurocurrency Loan is so long as the Adjusted Daily Simple RFR for Dollar Borrowings is not also the subject of Section 2.14(a)(i) or (ii) above or (y) an ABR Loan if the Adjusted Daily Simple RFR for Dollar Borrowings also is the subject of Section 2.14(a)(i) or (ii) above, on such day, and (2) any RFR Loan shall on and from such day be converted by the Administrative Agent to, and shall constitute an ABR Loan and (C) for Loans denominated in any Agreed Foreign Currency other than Dollars, then such, (1) any Term Benchmark Loan shall, on the last day of the Interest Period applicable to such Loan (or the next succeeding Business Day if such day is not a Business Day) bear interest at the Central Bank Rate for the applicable Foreign Currency plus the CBR Spread; provided that, if the Administrative Agent determines (which determination shall be conclusive and binding absent manifest error) that the Central Bank Rate for the applicable Foreign Currency cannot be determined, any outstanding affected Term Benchmark Loans denominated in any Foreign Currency shall, at the Borrower's election prior to such day: (A) be prepaid by the Borrower on such day or (B) solely for the purpose of calculating the interest rate applicable to such Eurocurrency Term Benchmark Loan, such Eurocurrency Term Benchmark Loan denominated in any Agreed Foreign Currency other than Dollars shall be deemed to be a Eurocurrency Term Benchmark Loan denominated in Dollars and shall accrue interest at the same interest rate applicable to Eurocurrency Term Benchmark Loans denominated in Dollars at such time; and (2) any RFR Loan shall bear interest at the Central Bank Rate for the applicable Foreign Currency plus the CBR Spread; provided that, if the Administrative Agent determines (which determination shall be conclusive and binding absent manifest error) that the Central Bank Rate for the applicable Foreign Currency cannot be determined, any outstanding affected RFR Loans denominated in any Foreign Currency, at the Borrower's election, shall either (A) be converted into ABR Loans denominated in Dollars (in an amount equal to the Dollar Amount of such Foreign Currency) immediately or (B) be prepaid in full immediately.

(b) Notwithstanding anything to the contrary herein or in any other Loan Document (and any Swap Agreement shall be deemed not to be a “Loan Document” for purposes of this Section 2.14), if a Benchmark Transition Event ~~or an Early Opt-in Election, as applicable,~~ and its related Benchmark Replacement Date have occurred prior to the Reference Time in respect of any setting of the then-current Benchmark, then (x) if a Benchmark Replacement is determined in accordance with clause (1) ~~or (2)~~ of the definition of “Benchmark Replacement” with respect to Dollars for such Benchmark Replacement Date, such Benchmark Replacement will replace such Benchmark for all purposes hereunder and under any Loan Document in respect of such Benchmark setting and subsequent Benchmark settings without any amendment to, or further action or consent of any other party to, this Agreement or any other Loan Document and (y) if a Benchmark Replacement is determined in accordance with clause ~~(3)~~ of the definition of “Benchmark Replacement” with respect to any Agreed Currency for such Benchmark Replacement Date, such Benchmark Replacement will replace such Benchmark for all purposes hereunder and under any Loan Document in respect of any Benchmark setting at or after 5:00 p.m. (New York City time) on the fifth (5th) Business Day after the date notice of such Benchmark Replacement is provided to the Lenders without any amendment to, or further action or consent of any other party to, this Agreement or any other Loan Document so long as the Administrative Agent has not received, by such time, written notice of objection to such Benchmark Replacement from Lenders comprising the Required Lenders.

~~(c) Notwithstanding anything to the contrary herein or in any other Loan Document and subject to the proviso below in this paragraph, (x) with respect to a Loan denominated in Dollars, if a Term SOFR Transition Event and its related Benchmark Replacement Date or (y) with respect to a Loan denominated in Euros, if a Term ESTR Transition Event and its related Benchmark Replacement Date, as applicable, have occurred prior to the Reference Time in respect of any setting of the then-current Benchmark, then the applicable Benchmark Replacement will replace the then-current Benchmark for all purposes hereunder or under any Loan Document in respect of such Benchmark setting and subsequent Benchmark settings, without any amendment to, or further action or consent of any other party to, this Agreement or any other Loan Document; provided that, this clause (c) shall not be effective unless the Administrative Agent has delivered to the Lenders and the Borrower a Term SOFR Notice or a Term ESTR Notice, as applicable. For the avoidance of doubt, the Administrative Agent shall not be required to deliver any (x) Term SOFR Notice after the occurrence of a Term SOFR Transition Event or (y) Term ESTR Notice after the occurrence of a Term ESTR Transition Event, and may do so in its sole discretion.~~

~~(c)~~ (d) In connection with the implementation of a Benchmark Replacement, Notwithstanding anything to the contrary herein or in any other Loan Document, the Administrative Agent will have the right to make Benchmark Replacement Conforming Changes from time to time and, notwithstanding anything to the contrary herein or in any other Loan Document, any amendments implementing such Benchmark Replacement Conforming Changes will become effective without any further action or consent of any other party to this Agreement or any other Loan Document.

~~(d)~~ (e) The Administrative Agent will promptly notify the Borrower and the Lenders of ~~(i)~~ any occurrence of a Benchmark Transition Event ~~or an Early Opt-in Election, as applicable, (ii)~~, the implementation of any Benchmark Replacement, ~~(iii)~~ the effectiveness of any Benchmark Replacement Conforming Changes, ~~(iv)~~ the removal or reinstatement of any tenor of a Benchmark pursuant to clause (f) below and ~~(v)~~ the commencement or conclusion of any Benchmark Unavailability Period. Any determination, decision or election that may be made by the Administrative Agent or, if applicable, any Lender (or group of Lenders) pursuant to this Section 2.14, including any determination with respect to a tenor, rate or adjustment or of the occurrence or non-occurrence of an event, circumstance or date and any decision to take or refrain from taking any action or any selection, will be conclusive and binding absent manifest error and may be made in its or their sole discretion and without consent from any other party to this Agreement or any other Loan Document, except, in each case, as expressly required pursuant to this Section 2.14.

~~(e)~~ (f) Notwithstanding anything to the contrary herein or in any other Loan Document, at any time (including in connection with the implementation of a Benchmark Replacement), ~~(i)~~ if the then-current Benchmark is a term rate (including the Term SOFR, ~~Term ESTR, EURIBO~~ Rate or ~~the LIBO~~ EURIBOR Rate) and either ~~(A)~~ any tenor for such Benchmark is not displayed on a screen

or other information service that publishes such rate from time to time as selected by the Administrative Agent in its reasonable discretion or ~~(B)~~ the regulatory supervisor for the administrator of such Benchmark has provided a public statement or publication of information announcing that any tenor for such Benchmark is or will be no longer representative, then the Administrative Agent may modify the definition of "Interest Period" for any Benchmark settings at or after such time to remove such unavailable or non-representative tenor and ~~(ii)~~ if a tenor that was removed pursuant to clause (i) above either ~~(A)~~ is subsequently displayed on a screen or information service for a Benchmark (including a Benchmark Replacement) or ~~(B)~~ is not, or is no longer, subject to an announcement that it is or will no longer be representative for a Benchmark (including a Benchmark Replacement), then the Administrative Agent may modify the definition of "Interest Period" for all Benchmark settings at or after such time to reinstate such previously removed tenor.

(f) ~~(g)~~ Upon the Borrower's receipt of notice of the commencement of a Benchmark Unavailability Period, the Borrower may revoke any request for a ~~Eurocurrency Term Benchmark Borrowing or RFR~~ Borrowing of, conversion to or continuation of ~~Eurocurrency Term Benchmark~~ Loans to be made, converted or continued during any Benchmark Unavailability Period and, failing that, either (x) the Borrower will be deemed to have converted any request for (1) a ~~Eurocurrency Term Benchmark~~ Borrowing denominated in Dollars into a request for a Borrowing of or conversion to ~~ABR Loans~~ or (y) ~~any request for a Eurocurrency~~ (A) an RFR Borrowing denominated in Dollars so long as the Adjusted Daily Simple RFR for Dollar Borrowings is not the subject of a Benchmark Transition Event or (B) an ABR Borrowing if the Adjusted Daily Simple RFR for Dollar Borrowings is the subject of a Benchmark Transition Event or (y) any Term Benchmark Borrowing or RFR Borrowing denominated in a Foreign Currency shall be ineffective. During any Benchmark Unavailability Period or at any time that a tenor for the then-current Benchmark is not an Available Tenor, the component of ABR based upon the then-current Benchmark or such tenor for such Benchmark, as applicable, will not be used in any determination of ABR. Furthermore, if any ~~Eurocurrency Term Benchmark Loan or RFR~~ Loan in any Agreed Currency is outstanding on the date of the Borrower's receipt of notice of the commencement of a Benchmark Unavailability Period with respect to a Relevant Rate applicable to such ~~Eurocurrency Term Benchmark Loan or RFR~~ Loan, then until such time as a Benchmark Replacement for such Agreed Currency is implemented pursuant to this Section 2.14, (iA) if such Eurocurrency Loan is for Loans denominated in Dollars, ~~then (1) any Term Benchmark Loan shall~~ on the last day of the Interest Period applicable to such Loan (or the next succeeding Business Day if such day is not a Business Day), ~~such Loan shall be converted by the Administrative Agent to, and shall constitute, an ABR Loan (x) an RFR Borrowing denominated in Dollars on such day or (ii) if such Eurocurrency Loan is so long as the Adjusted Daily Simple RFR for Dollar Borrowings is not the subject of a Benchmark Transition Event or (y) an ABR Loan if the Adjusted Daily Simple RFR for Dollar Borrowings is the subject of a Benchmark Transition Event, on such day and (2) any RFR Loan shall on and from such day be converted by the Administrative Agent to, and shall constitute an ABR Loan and (C) for Loans~~ denominated in ~~any Agreed a Foreign~~ Currency, ~~(other than Dollars), then such~~ (1) any Term Benchmark Loan shall, on the last day of the Interest Period applicable to such Loan (or the next succeeding Business Day if such day is not a Business Day) bear interest at the Central Bank Rate for the applicable Foreign Currency plus the CBR Spread; provided that, if the Administrative Agent determines (which determination shall be conclusive and binding absent manifest error) that the Central Bank Rate for the applicable Foreign Currency cannot be determined, any outstanding affected Term Benchmark Loans denominated in any Foreign Currency shall, at the Borrower's election prior to such day: ~~(A) be prepaid by the Borrower on such day or (B) solely for the purpose of calculating the interest rate applicable to such Eurocurrency Term Benchmark~~ Loan, such ~~Eurocurrency Term Benchmark~~ Loan denominated in any ~~Agreed Foreign~~ Currency ~~other than Dollars~~ shall be deemed to be a ~~Eurocurrency Term Benchmark~~ Loan denominated in Dollars and shall accrue interest at the same interest rate applicable to ~~Eurocurrency Term Benchmark~~ Loans denominated in Dollars at such time: and (2) any RFR Loan shall bear interest at the Central Bank Rate for the applicable Foreign Currency plus the CBR Spread; provided that, if the Administrative Agent determines (which determination shall be conclusive and binding absent manifest error) that the Central Bank Rate for the applicable Foreign Currency cannot be determined, any outstanding affected RFR Loans denominated in any Foreign Currency, at the Borrower's election, shall either (A) be converted into ABR Loans denominated in Dollars (in an amount equal to the Dollar Amount of such Foreign Currency) immediately or (B) be prepaid in full immediately.

SECTION 1.15. Increased Costs. If any Change in Law shall:

(i) impose, modify or deem applicable any reserve, special deposit, liquidity or similar requirement (including any compulsory loan requirement, insurance charge or other assessment) against assets of, deposits with or for the account of, or credit extended by, any Lender (except any such reserve requirement reflected in the Adjusted ~~LIBOR~~ Term SOFR Rate or the Adjusted ~~EURIBOR~~ EURIBOR Rate, as applicable) or the Issuing Bank;

(ii) impose on any Lender or the Issuing Bank or the ~~London~~ applicable offshore interbank market for the applicable Agreed Currency any other condition, cost or expense (other than Taxes) affecting this Agreement or Loans made by such Lender or any Letter of Credit or participation therein; or

(iii) subject any Recipient to any Taxes (other than (A) Indemnified Taxes, (B) Taxes described in clauses (b) through (d) of the definition of Excluded Taxes and (C) Connection Income Taxes) on its loans, loan principal, letters of credit, commitments, or other obligations, or its deposits, reserves, other liabilities or capital attributable thereto;

and the result of any of the foregoing shall be to increase the cost to such Lender or such other Recipient of making, continuing, converting or maintaining any Loan (or of maintaining its obligation to make any such Loan) or to increase the cost to such Lender, the Issuing Bank or such other Recipient of participating in, issuing or maintaining any Letter of Credit or to reduce the amount of any sum received or receivable by such Lender, the Issuing Bank or such other Recipient hereunder (whether of principal, interest or otherwise), then the Borrower will pay to such Lender, the Issuing Bank or such other Recipient, as the case may be, such additional amount or amounts as will compensate such Lender, the Issuing Bank or such other Recipient, as the case may be, for such additional costs incurred or reduction suffered as reasonably determined by the Administrative Agent, such Lender or the Issuing Bank (which determination shall be made in good faith (and not on an arbitrary or capricious basis) and generally consistent with similarly situated customers of the Administrative Agent, such Lender or the Issuing Bank, as applicable, under agreements having provisions similar to this Section 2.15, after consideration of such factors as the Administrative Agent, such Lender or the Issuing Bank, as applicable, then reasonably determines to be relevant).

(b) If any Lender or the Issuing Bank determines that any Change in Law regarding capital or liquidity requirements has or would have the effect of reducing the rate of return on such Lender's or the Issuing Bank's capital or on the capital of such Lender's or the Issuing Bank's holding company, if any, as a consequence of this Agreement or the Loans made by, or participations in Letters of Credit or Swingline Loans held by, such Lender, or the Letters of Credit issued by the Issuing Bank, to a level below that which such Lender or the Issuing Bank or such Lender's or the Issuing Bank's holding company could have achieved but for such Change in Law (taking into consideration such Lender's or the Issuing Bank's policies and the policies of such Lender's or the Issuing Bank's holding company with respect to capital adequacy and liquidity), then from time to time the Borrower will pay to such Lender or the Issuing Bank, as the case may be, such additional amount or amounts as will compensate such Lender or the Issuing Bank or such Lender's or the Issuing Bank's holding company for any such reduction suffered as reasonably determined by the Administrative Agent, such Lender or the Issuing Bank (which determination shall be made in good faith (and not on an arbitrary or capricious basis) and generally consistent with similarly situated customers of the Administrative Agent, such Lender or the Issuing Bank, as applicable, under agreements having provisions similar to this Section 2.15, after consideration of such factors as the Administrative Agent, such Lender or the Issuing Bank, as applicable, then reasonably determines to be relevant).

(c) A certificate of a Lender or the Issuing Bank setting forth, in reasonable detail, the basis and calculation of the amount or amounts necessary to compensate such Lender or the Issuing Bank or its holding company, as the case may be, as specified in paragraph (a) or (b) of this Section shall be delivered to the Borrower and shall be conclusive absent manifest error. The Borrower shall pay such Lender or the Issuing Bank, as the case may be, the amount shown as due on any such certificate within thirty (30) days after receipt thereof.

(d) Failure or delay on the part of any Lender or the Issuing Bank to demand compensation pursuant to this Section shall not constitute a waiver of such Lender's or the Issuing Bank's right to demand such compensation; provided that the Borrower shall not be required to compensate a Lender or the Issuing Bank pursuant to this Section for any increased costs or reductions incurred more than 180 days prior to the date that such Lender or the Issuing Bank, as the case may be, notifies the Borrower of the Change in Law giving rise to such increased costs or reductions and of such Lender's or the Issuing Bank's intention to claim compensation therefor; provided further that, if the Change in Law giving rise to such increased costs or reductions is retroactive, then the 180-day period referred to above shall be extended to include the period of retroactive effect thereof.

SECTION 1.16. Break Funding Payments.

~~SECTION 2.16. Break Funding Payments. In (a) With respect to any Loans that are not RFR Loans, in the event of (ai) the payment of any principal of any Eurocurrency Term Benchmark Loan other than on the last day of an Interest Period applicable thereto (including as a result of an Event of Default or as a result of any prepayment pursuant to Section 2.11), (bii) the conversion of any Eurocurrency Term Benchmark Loan other than on the last day of the Interest Period applicable thereto, (eiii) the failure to borrow, convert, continue or prepay any Eurocurrency Term Benchmark Loan on the date specified in any notice delivered pursuant hereto (regardless of whether such notice may be revoked under Section 2.11(a) and is revoked in accordance therewith) or, (div) the assignment of any Eurocurrency Term Benchmark Loan other than on the last day of the Interest Period applicable thereto as a result of a request by the Borrower pursuant to Section 2.19 or 9.02(e)d or (v) the failure by the Borrower to make any payment of any Term Benchmark Loan or drawing under any Letter of Credit (or interest due thereof) denominated in a Foreign Currency on its scheduled due date or any payment thereof in a different currency, then, in any such event, the Borrower shall compensate each Lender for the loss, cost and expense attributable to such event. Such loss, cost or expense to any Lender shall be deemed to include an amount determined by such Lender to be the excess, if any, of (i) the amount of interest which would have accrued on the principal amount of such Loan had such event not occurred, at the Adjusted LIBO Rate or the Adjusted EURIBO Rate, as applicable, that would have been applicable to such Loan, for the period from the date of such event to the last day of the then current Interest Period therefor (or, in the case of a failure to borrow, convert or continue, for the period that would have been the Interest Period for such Loan); over (ii) the amount of interest which would accrue on such principal amount for such period at the interest rate which such Lender would bid were it to bid, at the commencement of such period, for deposits in the relevant currency of a comparable amount and period from other banks in the eurocurrency market. A certificate of any Lender setting forth in reasonable detail the calculation of any amount or amounts that such Lender is entitled to receive pursuant to this Section shall be delivered to the Borrower and shall be conclusive absent manifest error. The Borrower shall pay such Lender the amount shown as due on any such certificate within thirty (30) days ten (10) Business Days after receipt thereof.~~

(b) With respect to RFR Loans, in the event of (i) the payment of any principal of any RFR Loan other than on the Interest Payment Date applicable thereto (including as a result of an Event of Default or as a result of any prepayment pursuant to Section 2.11), (ii) the failure to borrow or prepay any RFR Loan on the date specified in any notice delivered pursuant hereto (regardless of whether such notice may be revoked under Section 2.11(a) and is revoked in accordance therewith), (iii) the assignment of any RFR Loan other than on the Interest Payment Date applicable thereto as a result of a request by the Borrower pursuant to Section 2.19 or 9.02(d) or (iv) the failure by the Borrower to make any payment of any Loan or drawing under any Letter of Credit (or interest due thereof) denominated in a Foreign Currency on its scheduled due date or any payment thereof in a different currency, then, in any such event, the Borrower shall compensate each Lender for the loss, cost and expense attributable to such event. A certificate of any Lender setting forth in reasonable detail the calculation of any amount or amounts that such Lender is entitled to receive pursuant to this Section shall be delivered to the Borrower and shall be conclusive absent manifest error. The Borrower shall pay such Lender the amount shown as due on any such certificate within ten (10) Business Days after receipt thereof.

SECTION 1.17. Taxes. Payments Free of Taxes. Any and all payments by or on account of any obligation of any Loan Party under any Loan Document shall be made without deduction

or withholding for any Taxes, except as required by applicable law. If any applicable law (as determined in the good faith discretion of an applicable withholding agent) requires the deduction or withholding of any Tax from any such payment by a withholding agent, then the applicable withholding agent shall be entitled to make such deduction or withholding and shall timely pay the full amount deducted or withheld to the relevant Governmental Authority in accordance with applicable law and, if such Tax is an Indemnified Tax, then the sum payable by the applicable Loan Party shall be increased as necessary so that after such deduction or withholding has been made (including such deductions and withholdings applicable to additional sums payable under this Section 2.17) the applicable Recipient receives an amount equal to the sum it would have received had no such deduction or withholding been made.

(b) Payment of Other Taxes by the Borrower. The Borrower shall timely pay to the relevant Governmental Authority in accordance with applicable law, or at the option of the Administrative Agent timely reimburse it for, Other Taxes.

(c) Evidence of Payments. As soon as practicable after any payment of Taxes by any Loan Party to a Governmental Authority pursuant to this Section 2.17, such Loan Party shall deliver to the Administrative Agent the original or a certified copy of a receipt issued by such Governmental Authority evidencing such payment, a copy of the return reporting such payment or other evidence of such payment reasonably satisfactory to the Administrative Agent.

(d) Indemnification by the Loan Parties. The Loan Parties shall jointly and severally indemnify each Recipient, within 10 days after demand therefor, for the full amount of any Indemnified Taxes (including Indemnified Taxes imposed or asserted on or attributable to amounts payable under this Section) payable or paid by such Recipient or required to be withheld or deducted from a payment to such Recipient and any reasonable expenses arising therefrom or with respect thereto, whether or not such Indemnified Taxes were correctly or legally imposed or asserted by the relevant Governmental Authority. A certificate as to the amount of such payment or liability delivered to the Borrower by a Lender (with a copy to the Administrative Agent), or by the Administrative Agent on its own behalf or on behalf of a Lender, shall be conclusive absent manifest error.

(e) Indemnification by the Lenders. Each Lender shall severally indemnify the Administrative Agent, within 10 days after demand therefor, for (i) any Indemnified Taxes attributable to such Lender (but only to the extent that any Loan Party has not already indemnified the Administrative Agent for such Indemnified Taxes and without limiting the obligation of the Loan Parties to do so), (ii) any Taxes attributable to such Lender's failure to comply with the provisions of Section 9.04(c) relating to the maintenance of a Participant Register and (iii) any Excluded Taxes attributable to such Lender, in each case, that are payable or paid by the Administrative Agent in connection with any Loan Document, and any reasonable expenses arising therefrom or with respect thereto, whether or not such Taxes were correctly or legally imposed or asserted by the relevant Governmental Authority. A certificate as to the amount of such payment or liability delivered to any Lender by the Administrative Agent shall be conclusive absent manifest error. Each Lender hereby authorizes the Administrative Agent to setoff and apply any and all amounts at any time owing to such Lender under any Loan Document or otherwise payable by the Administrative Agent to the Lender from any other source against any amount due to the Administrative Agent under this paragraph (e).

(f) Status of Lenders. Any Lender that is entitled to an exemption from or reduction of withholding Tax with respect to payments made under any Loan Document shall deliver to the Borrower and the Administrative Agent, at the time or times reasonably requested by the Borrower or the Administrative Agent, such properly completed and executed documentation reasonably requested by the Borrower or the Administrative Agent as will permit such payments to be made without withholding or at a reduced rate of withholding. In addition, any Lender, if reasonably requested by the Borrower or the Administrative Agent, shall deliver such other documentation prescribed by applicable law or reasonably requested by the Borrower or the Administrative Agent as will enable the Borrower or the Administrative Agent to determine whether or not such Lender is subject to backup withholding or information reporting requirements. Notwithstanding anything to the contrary in the preceding two sentences, the completion, execution and submission of such documentation (other than such documentation set forth in Section 2.17(f)(ii)(A), (ii)(B) and (ii)(D) below) shall not be required if in the Lender's reasonable judgment such

completion, execution or submission would subject such Lender to any material unreimbursed cost or expense or would materially prejudice the legal or commercial position of such Lender.

(ii) Without limiting the generality of the foregoing, in the event that the Borrower is a U.S. Person:

(A) any Lender that is a U.S. Person shall deliver to the Borrower and the Administrative Agent on or prior to the date on which such Lender becomes a Lender under this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Administrative Agent), an executed copy of IRS Form W-9 certifying that such Lender is exempt from U.S. federal backup withholding tax;

(B) any Foreign Lender shall, to the extent it is legally entitled to do so, deliver to the Borrower and the Administrative Agent (in such number of copies as shall be requested by the recipient) on or prior to the date on which such Foreign Lender becomes a Lender under this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Administrative Agent), whichever of the following is applicable:

(1) in the case of a Foreign Lender claiming the benefits of an income tax treaty to which the United States is a party (x) with respect to payments of interest under any Loan Document, an executed copy of IRS Form W-8BEN or IRS Form W-8BEN-E, as applicable, establishing an exemption from, or reduction of, U.S. federal withholding Tax pursuant to the “interest” article of such tax treaty and (y) with respect to any other applicable payments under any Loan Document, IRS Form W-8BEN or IRS Form W-8BEN-E, as applicable, establishing an exemption from, or reduction of, U.S. federal withholding Tax pursuant to the “business profits” or “other income” article of such tax treaty;

(2) in the case of a Foreign Lender claiming that its extension of credit will generate U.S. effectively connected income, an executed copy of IRS Form W-8ECI;

(3) in the case of a Foreign Lender claiming the benefits of the exemption for portfolio interest under Section 881(c) of the Code, (x) a certificate substantially in the form of Exhibit F-1 to the effect that such Foreign Lender is not a “bank” within the meaning of Section 881(c)(3)(A) of the Code, a “10 percent shareholder” of the Borrower within the meaning of Section 881(c)(3)(B) of the Code, or a “controlled foreign corporation” described in Section 881(c)(3)(C) of the Code (a “U.S. Tax Compliance Certificate”) and (y) an executed copy of IRS Form W-8BEN or IRS Form W-8BEN-E; or

(4) to the extent a Foreign Lender is not the beneficial owner, an executed copy of IRS Form W-8IMY, accompanied by IRS Form W-8ECI, IRS Form W-8BEN or IRS Form W-8BEN-E, a U.S. Tax Compliance Certificate substantially in the form of Exhibit F-2 or Exhibit F-3, IRS Form W-9, and/or other certification documents from each beneficial owner, as applicable; provided that if the Foreign Lender is a partnership and one or more direct or indirect partners of such Foreign Lender are claiming the portfolio interest exemption, such Foreign

Lender may provide a U.S. Tax Compliance Certificate substantially in the form of Exhibit F-4 on behalf of each such direct and indirect partner;

(C) any Foreign Lender shall, to the extent it is legally entitled to do so, deliver to the Borrower and the Administrative Agent (in such number of copies as shall be requested by the recipient) on or prior to the date on which such Foreign Lender becomes a Lender under this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Administrative Agent), executed copies of any other form prescribed by applicable law as a basis for claiming exemption from or a reduction in U.S. federal withholding Tax, duly completed, together with such supplementary documentation as may be prescribed by applicable law to permit the Borrower or the Administrative Agent to determine the withholding or deduction required to be made; and

(D) if a payment made to a Lender under any Loan Document would be subject to U.S. federal withholding Tax imposed by FATCA if such Lender were to fail to comply with the applicable reporting requirements of FATCA (including those contained in Section 1471(b) or 1472(b) of the Code, as applicable), such Lender shall deliver to the Borrower and the Administrative Agent at the time or times prescribed by law and at such time or times reasonably requested by the Borrower or the Administrative Agent such documentation prescribed by applicable law (including as prescribed by Section 1471(b)(3)(C)(i) of the Code) and such additional documentation reasonably requested by the Borrower or the Administrative Agent as may be necessary for the Borrower and the Administrative Agent to comply with their obligations under FATCA and to determine that such Lender has complied with such Lender's obligations under FATCA or to determine the amount to deduct and withhold from such payment. Solely for purposes of this clause (D), "FATCA" shall include any amendments made to FATCA after the date of this Agreement.

Each Lender agrees that if any form or certification it previously delivered expires or becomes obsolete or inaccurate in any respect, it shall update such form or certification or promptly notify the Borrower and the Administrative Agent in writing of its legal inability to do so.

(g) Treatment of Certain Refunds. If any party determines, in its sole discretion exercised in good faith, that it has received a refund of any Taxes as to which it has been indemnified pursuant to this Section 2.17 (including by the payment of additional amounts pursuant to this Section 2.17), it shall pay to the indemnifying party an amount equal to such refund (but only to the extent of indemnity payments made under this Section 2.17 with respect to the Taxes giving rise to such refund), net of all out-of-pocket expenses (including Taxes) of such indemnified party and without interest (other than any interest paid by the relevant Governmental Authority with respect to such refund). Such indemnifying party, upon the request of such indemnified party, shall repay to such indemnified party the amount paid over pursuant to this paragraph (g) (plus any penalties, interest or other charges imposed by the relevant Governmental Authority) in the event that such indemnified party is required to repay such refund to such Governmental Authority. Notwithstanding anything to the contrary in this paragraph (g), in no event will the indemnified party be required to pay any amount to an indemnifying party pursuant to this paragraph (g) the payment of which would place the indemnified party in a less favorable net after-Tax position than the indemnified party would have been in if the Tax subject to indemnification and giving rise to such refund had not been deducted, withheld or otherwise imposed and the indemnification payments or additional amounts with respect to such Tax had never been paid. This paragraph shall not be construed to require any indemnified party to make available its Tax returns (or any other information relating to its Taxes that it deems confidential) to the indemnifying party or any other Person.

(h) Survival. Each party's obligations under this Section 2.17 shall survive the resignation or replacement of the Administrative Agent or any assignment of rights by, or the replacement of, a Lender, the termination of the Commitments and the repayment, satisfaction or discharge of all obligations under any Loan Document.

(i) Defined Terms. For purposes of this Section 2.17, the term “Lender” includes the Issuing Bank and the term “applicable law” includes FATCA.

SECTION 1.18. Payments Generally; Allocations of Proceeds; Pro Rata Treatment; Sharing of Setoffs.

(a) ~~The (i) Except with respect to principal of and interest on Loans denominated in a Foreign Currency, the~~ Borrower shall make each payment or prepayment required to be made by it hereunder (whether of principal, interest, fees or reimbursement of LC Disbursements, or of amounts payable under Section 2.15, 2.16 or 2.17, or otherwise) in Dollars prior to ~~(i) in the case of payments denominated in Dollars, 12:00 noon, (New York City time and (ii) in the case of payments denominated in a Foreign Currency, 12:00 noon, Local Time, in the city of the Administrative Agent’s Eurocurrency Payment Office for such currency, in each case)~~ on the date when due or the date fixed for any prepayment hereunder; ~~in and (ii) all payments with respect to principal and interest on Loans denominated in a Foreign Currency shall be made in such Foreign Currency not later than the Applicable Time specified by the Administrative Agent on the dates specified herein, in each case in~~ immediately available funds, without ~~setoff~~ set-off, recoupment or counterclaim. Any amounts received after such time on any date may, in the discretion of the Administrative Agent, be deemed to have been received on the next succeeding Business Day for purposes of calculating interest thereon. All such payments shall be made (i) in the same currency in which the applicable Credit Event was made ~~(or where such currency has been converted to euro, in euro)~~ and (ii) to the Administrative Agent at its offices at 10 South Dearborn Street, Chicago, Illinois 60603 or, in the case of a Credit Event denominated in a Foreign Currency, the Administrative Agent’s ~~Eurocurrency~~ Foreign Currency Payment Office for such currency, except payments to be made directly to ~~the~~ an Issuing Bank or the Swingline Lender as expressly provided herein and except that payments pursuant to Sections 2.15, 2.16, 2.17 and 9.03 shall be made directly to the Persons entitled thereto. The Administrative Agent shall distribute any such payments denominated in the same currency received by it for the account of any other Person to the appropriate recipient promptly following receipt thereof. ~~Subject to the proviso in the definition of Interest Period, if~~ any payment hereunder shall be due on a day that is not a Business Day, the date for payment shall be extended to the next succeeding Business Day, and, in the case of any payment accruing interest, interest thereon shall be payable for the period of such extension. ~~Notwithstanding the foregoing provisions of this Section, if, after the making of any Credit Event in any Foreign Currency, currency control or exchange regulations are imposed in the country which issues such currency with the result that the type of currency in which the Credit Event was made (the “Original Currency”) no longer exists or the Borrower is not able to make payment to the Administrative Agent for the account of the Lenders in such Original Currency, then all payments to be made by the Borrower hereunder in such currency shall instead be made when due~~ Without limiting the generality of the foregoing, the Administrative Agent may require that any payments due under this Agreement be made in the United States. If, for any reason, the Borrower is prohibited by any Law from making any required payment hereunder in a Foreign Currency, such Borrower shall make such payment in Dollars in ~~an amount equal to~~ the Dollar Amount ~~(as of the date of repayment) of such payment due, it being the intention of the parties hereto that the Borrower takes all risks of the imposition of any such currency control or exchange regulations~~ Foreign Currency payment amount.

(b) At any time that payments are not required to be applied in the manner required by Section 7.03, if at any time insufficient funds are received by and available to the Administrative Agent to pay fully all amounts of principal, unreimbursed LC Disbursements, interest and fees then due hereunder, such funds shall be applied (i) first, towards payment of interest and fees then due hereunder, ratably among the parties entitled thereto in accordance with the amounts of interest and fees then due to such parties, and (ii) second, towards payment of principal and unreimbursed LC Disbursements then due hereunder, ratably among the parties entitled thereto in accordance with the amounts of principal and unreimbursed LC Disbursements then due to such parties.

(c) At the election of the Administrative Agent, all payments of principal, interest, LC Disbursements, fees, premiums, reimbursable expenses (including, without limitation, all reimbursement for fees and expenses pursuant to Section 9.03), and other sums payable under the Loan Documents, may be paid from the proceeds of Borrowings made hereunder whether made following a

request by the Borrower pursuant to Section 2.03 or a deemed request as provided in this Section or may be deducted from any deposit account of the Borrower maintained with the Administrative Agent. The Borrower hereby irrevocably authorizes (i) the Administrative Agent to make a Borrowing for the purpose of paying each payment of principal, interest and fees as it becomes due hereunder or any other amount due under the Loan Documents and agrees that all such amounts charged shall constitute Loans (including Swingline Loans) and that all such Borrowings shall be deemed to have been requested pursuant to Section 2.03 or 2.05, as applicable and (ii) the Administrative Agent to charge any deposit account of the Borrower maintained with the Administrative Agent for each payment of principal, interest and fees as it becomes due hereunder or any other amount due under the Loan Documents.

(d) If any Lender shall, by exercising any right of setoff or counterclaim or otherwise, obtain payment in respect of any principal of or interest on any of its Revolving Loans or participations in LC Disbursements or Swingline Loans resulting in such Lender receiving payment of a greater proportion of the aggregate amount of its Revolving Loans and participations in LC Disbursements and Swingline Loans and accrued interest thereon than the proportion received by any other Lender, then the Lender receiving such greater proportion shall purchase (for cash at face value) participations in the Revolving Loans and participations in LC Disbursements and Swingline Loans of other Lenders to the extent necessary so that the benefit of all such payments shall be shared by the Lenders ratably in accordance with the aggregate amount of principal of and accrued interest on their respective Revolving Loans and participations in LC Disbursements and Swingline Loans; provided that (i) if any such participations are purchased and all or any portion of the payment giving rise thereto is recovered, such participations shall be rescinded and the purchase price restored to the extent of such recovery, without interest, and (ii) the provisions of this paragraph shall not be construed to apply to any payment made by the Borrower pursuant to and in accordance with the express terms of this Agreement or any payment obtained by a Lender as consideration for the assignment of or sale of a participation in any of its Loans or participations in LC Disbursements and Swingline Loans to any assignee or participant, other than to the Borrower or any Subsidiary or Affiliate thereof (as to which the provisions of this paragraph shall apply). The Borrower consents to the foregoing and agrees, to the extent it may effectively do so under applicable law, that any Lender acquiring a participation pursuant to the foregoing arrangements may exercise against the Borrower rights of setoff and counterclaim with respect to such participation as fully as if such Lender were a direct creditor of the Borrower in the amount of such participation.

(e) Unless the Administrative Agent shall have received, prior to any date on which any payment is due to the Administrative Agent for the account of the Lenders or the Issuing Bank pursuant to the terms of this Agreement or any other Loan Document (including any date that is fixed for prepayment by notice from the Borrower to the Administrative Agent pursuant to Section 2.11(b)), notice from the Borrower that the Borrower will not make such payment or prepayment, the Administrative Agent may assume that the Borrower has made such payment on such date in accordance herewith and may, in reliance upon such assumption, distribute to the Lenders or the Issuing Bank, as the case may be, the amount due. In such event, if the Borrower has not in fact made such payment, then each of the Lenders or the Issuing Bank, as the case may be, severally agrees to repay to the Administrative Agent forthwith on demand the amount so distributed to such Lender or Issuing Bank with interest thereon, for each day from and including the date such amount is distributed to it to but excluding the date of payment to the Administrative Agent, at the ~~greater of the NYFRB Rate and a rate determined by the Administrative Agent in accordance with banking industry rules on interbank compensation (including without limitation the Overnight Foreign Currency Rate in the case of Loans denominated in a Foreign Currency);~~ applicable Overnight Rate.

SECTION 1.19. Mitigation Obligations; Replacement of Lenders. If any Lender requests compensation under Section 2.15, or if the Borrower is required to pay any Indemnified Taxes or additional amounts to any Lender or any Governmental Authority for the account of any Lender pursuant to Section 2.17, then such Lender shall use reasonable efforts to designate a different lending office for funding or booking its Loans hereunder or to assign its rights and obligations hereunder to another of its offices, branches or Affiliates, if, in the judgment of such Lender, such designation or assignment (i) would eliminate or reduce amounts payable pursuant to Section 2.15 or 2.17, as the case may be, in the future and (ii) would not subject such Lender to any unreimbursed cost or expense and would not

otherwise be disadvantageous to such Lender. The Borrower hereby agrees to pay all reasonable costs and expenses incurred by any Lender in connection with any such designation or assignment.

(b) If (i) any Lender requests compensation under Section 2.15, (ii) the Borrower is required to pay any Indemnified Taxes or additional amounts to any Lender or any Governmental Authority for the account of any Lender pursuant to Section 2.17 or (iii) any Lender becomes a Defaulting Lender, then the Borrower may, at its sole expense and effort, upon notice to such Lender and the Administrative Agent, require such Lender to assign and delegate, without recourse (in accordance with and subject to the restrictions contained in Section 9.04), all its interests, rights (other than its existing rights to payments pursuant to Section 2.15 or 2.17) and obligations under this Agreement and the other Loan Documents to an assignee that shall assume such obligations (which assignee may be another Lender, if a Lender accepts such assignment); provided that (i) the Borrower shall have received the prior written consent of the Administrative Agent (and if a Commitment is being assigned, the Issuing Bank and the Swingline Lender), which consent shall not unreasonably be withheld, (ii) such Lender shall have received payment of an amount equal to the outstanding principal of its Loans and participations in LC Disbursements and Swingline Loans, accrued interest thereon, accrued fees and all other amounts payable to it hereunder, from the assignee (to the extent of such outstanding principal and accrued interest and fees) or the Borrower (in the case of all other amounts) and (iii) in the case of any such assignment resulting from a claim for compensation under Section 2.15 or payments required to be made pursuant to Section 2.17, such assignment will result in a reduction in such compensation or payments. A Lender shall not be required to make any such assignment and delegation if, prior thereto, as a result of a waiver by such Lender or otherwise, the circumstances entitling the Borrower to require such assignment and delegation cease to apply. Each party hereto agrees that (i) an assignment required pursuant to this paragraph may be effected pursuant to an Assignment and Assumption executed by the Borrower, the Administrative Agent and the assignee (or, to the extent applicable, an agreement incorporating an Assignment and Assumption by reference pursuant to an Approved Electronic Platform as to which the Administrative Agent and such parties are participants), and (ii) the Lender required to make such assignment need not be a party thereto in order for such assignment to be effective and shall be deemed to have consented to and be bound by the terms thereof; provided that, following the effectiveness of any such assignment, the other parties to such assignment agree to execute and deliver such documents necessary to evidence such assignment as reasonably requested by the applicable Lender, provided that any such documents shall be without recourse to or warranty by the parties thereto.

SECTION 1.20. Expansion Option. The Borrower may from time to time elect to increase the Commitments or enter into one or more tranches of term loans (each an "Incremental Term Loan"), in each case in minimum increments of \$25,000,000 so long as, after giving effect thereto, the aggregate amount of such increases and all such Incremental Term Loans does not exceed \$50,000,000. The Borrower may arrange for any such increase or tranche to be provided by one or more Lenders (each Lender so agreeing to an increase in its Commitment, or to participate in such Incremental Term Loans, an "Increasing Lender"), or by one or more new banks, financial institutions or other entities (each such new bank, financial institution or other entity, an "Augmenting Lender"; provided that no Ineligible Institution may be an Augmenting Lender), which agree to increase their existing Commitments, or to participate in such Incremental Term Loans, or provide new Commitments, as the case may be; provided that (i) each Augmenting Lender, shall be subject to the approval of the Borrower and the Administrative Agent and (ii) (x) in the case of an Increasing Lender, the Borrower and such Increasing Lender execute an agreement substantially in the form of Exhibit C hereto or such other form reasonably acceptable to the Borrower and the Administrative Agent, and (y) in the case of an Augmenting Lender, the Borrower and such Augmenting Lender execute an agreement substantially in the form of Exhibit D hereto or such other form as is reasonably acceptable to the Borrower and the Administrative Agent. No consent of any Lender (other than the Lenders participating in the increase or any Incremental Term Loan) shall be required for any increase in Commitments or Incremental Term Loan pursuant to this Section 2.20. Increases and new Commitments and Incremental Term Loans created pursuant to this Section 2.20 shall become effective on the date agreed by the Borrower, the Administrative Agent and the relevant Increasing Lenders or Augmenting Lenders, and the Administrative Agent shall notify each Lender thereof. Notwithstanding the foregoing, no increase in the Commitments (or in the Commitment of any Lender) or tranche of Incremental Term Loans shall become effective under this paragraph unless, (i) on the proposed date of the effectiveness of such increase or Incremental Term Loans, (A) the conditions set forth in paragraphs (a) and (b) of Section 4.02 shall be satisfied or waived by the Required Lenders and

the Administrative Agent shall have received a certificate to that effect dated such date and executed by a Financial Officer of the Borrower and (B) the Borrower shall be in compliance (on a pro forma basis) with the covenants contained in Section 6.12 and (ii) to the extent reasonably requested by the Administrative Agent shall have received (x) documents and opinions of the same type, to the extent applicable, as those delivered on the Effective Date as to the organizational power and authority of the Borrower to borrow hereunder after giving effect to such increase or Incremental Term Loan (or to the extent resolutions delivered on the Effective Date approve such matters, a certification from the Borrower that such previously delivered resolutions remain in full force and effect and have not been amended or otherwise modified since the adoption thereof) and (y) reaffirmations from the Loan Parties. On the effective date of any increase in the Commitments or any Incremental Term Loans being made, (i) each relevant Increasing Lender and Augmenting Lender shall make available to the Administrative Agent such amounts in immediately available funds as the Administrative Agent shall determine, for the benefit of the other Lenders, as being required in order to cause, after giving effect to such increase and the use of such amounts to make payments to such other Lenders, each Lender's portion of the outstanding Revolving Loans of all the Lenders to equal its Applicable Percentage of such outstanding Revolving Loans, and (ii) except in the case of any Incremental Term Loans, the Borrower shall be deemed to have repaid and reborrowed all outstanding Revolving Loans owed by the Borrower as of the date of any increase in the Commitments (with such reborrowing to consist of the Types of Revolving Loans, with related Interest Periods if applicable, specified in a notice delivered by the Borrower, in accordance with the requirements of Section 2.03). The deemed payments made pursuant to clause (ii) of the immediately preceding sentence shall be accompanied by payment of all accrued interest on the amount prepaid and, in respect of each **Eurocurrency Term Benchmark** Loan, shall be subject to indemnification by the Borrower pursuant to the provisions of Section 2.16 if the deemed payment occurs other than on the last day of the related Interest Periods. The Incremental Term Loans (a) shall rank pari passu in right of payment with the Revolving Loans, (b) shall not mature earlier than the Maturity Date (but may have amortization and/or customary prepayments prior to such date) and (c) shall be treated substantially the same as (and in any event no more favorably than) the Revolving Loans; provided that (i) the terms and conditions applicable to any tranche of Incremental Term Loans maturing after the Maturity Date may provide for material additional or different financial or other covenants or prepayment requirements applicable only during periods after the Maturity Date and (ii) the Incremental Term Loans may be priced differently (whether in the form of interest rate margin, upfront fees, original issue discount, call protection or otherwise) than the Revolving Loans. Incremental Term Loans may be made hereunder pursuant to an amendment or restatement (an "Incremental Term Loan Amendment") of this Agreement and, as appropriate, the other Loan Documents, executed by the Borrower, each Increasing Lender participating in such tranche, each Augmenting Lender participating in such tranche, if any, and the Administrative Agent. The Incremental Term Loan Amendment may, without the consent of any other Lenders, effect such amendments to this Agreement and the other Loan Documents as may be necessary or appropriate, in the reasonable opinion of the Administrative Agent, to effect the provisions of this Section 2.20. Nothing contained in this Section 2.20 shall constitute, or otherwise be deemed to be, a commitment on the part of any Lender to increase its Commitment hereunder, or provide Incremental Term Loans, at any time.

SECTION 1.21. Judgment Currency. If for the purposes of obtaining judgment in any court it is necessary to convert a sum due from the Borrower hereunder in the currency expressed to be payable herein (the "specified currency") into another currency, the parties hereto agree, to the fullest extent that they may effectively do so, that the rate of exchange used shall be that at which in accordance with normal banking procedures the Administrative Agent could purchase the specified currency with such other currency at the Administrative Agent's main New York City office on the Business Day preceding that on which final, non-appealable judgment is given. The obligations of the Borrower in respect of any sum due to any Lender or the Administrative Agent by the Borrower hereunder shall, notwithstanding any judgment in a currency other than the specified currency, be discharged only to the extent that on the Business Day following receipt by such Lender or the Administrative Agent (as the case may be) of any sum adjudged to be so due in such other currency such Lender or the Administrative Agent (as the case may be) may in accordance with normal, reasonable banking procedures purchase the specified currency with such other currency. If the amount of the specified currency so purchased is less than the sum originally due to such Lender or the Administrative Agent by the Borrower, as the case may be, in the specified currency, the Borrower agrees, to the fullest extent that it may effectively do so, as a separate obligation and notwithstanding any such judgment, to indemnify such Lender or the

Administrative Agent, as the case may be, against such loss, and if the amount of the specified currency so purchased exceeds (a) the sum originally due to any Lender or the Administrative Agent, as the case may be, in the specified currency and (b) any amounts shared with other Lenders relating to amounts owed by the Borrower as a result of allocations of such excess as a disproportionate payment to such Lender under Section 2.18, such Lender or the Administrative Agent, as the case may be, agrees to remit such excess to the Borrower.

SECTION 1.22. Defaulting Lenders. Notwithstanding any provision of this Agreement to the contrary, if any Lender becomes a Defaulting Lender, then the following provisions shall apply for so long as such Lender is a Defaulting Lender:

(a) fees shall cease to accrue on the unfunded portion of the Commitment of such Defaulting Lender pursuant to Section 2.12(a);

(b) any payment of principal, interest, fees or other amounts received by the Administrative Agent for the account of such Defaulting Lender (whether voluntary or mandatory, at maturity, pursuant to Section 7.03 or otherwise) or received by the Administrative Agent from a Defaulting Lender pursuant to Section 9.08 shall be applied at such time or times as may be determined by the Administrative Agent as follows: first, to the payment of any amounts owing by such Defaulting Lender to the Administrative Agent hereunder; second, to the payment on a pro rata basis of any amounts owing by such Defaulting Lender to the Issuing Bank or Swingline Lender hereunder; third, to cash collateralize LC Exposure with respect to such Defaulting Lender in accordance with this Section; fourth, as the Borrower may request (so long as no Default or Event of Default exists), to the funding of any Loan in respect of which such Defaulting Lender has failed to fund its portion thereof as required by this Agreement, as determined by the Administrative Agent; fifth, if so determined by the Administrative Agent and the Borrower, to be held in a deposit account and released pro rata in order to (x) satisfy such Defaulting Lender's potential future funding obligations with respect to Loans under this Agreement and (y) cash collateralize future LC Exposure with respect to such Defaulting Lender with respect to future Letters of Credit issued under this Agreement, in accordance with this Section; sixth, to the payment of any amounts owing to the Lenders, the Issuing Bank or Swingline Lender as a result of any judgment of a court of competent jurisdiction obtained by any Lender, the Issuing Bank or Swingline Lender against such Defaulting Lender as a result of such Defaulting Lender's breach of its obligations under this Agreement or under any other Loan Document; seventh, so long as no Default or Event of Default exists, to the payment of any amounts owing to the Borrower as a result of any judgment of a court of competent jurisdiction obtained by the Borrower against such Defaulting Lender as a result of such Defaulting Lender's breach of its obligations under this Agreement or under any other Loan Document; and eighth, to such Defaulting Lender or as otherwise directed by a court of competent jurisdiction; provided that if (x) such payment is a payment of the principal amount of any Loans or LC Disbursements in respect of which such Defaulting Lender has not fully funded its appropriate share, and (y) such Loans were made or the related Letters of Credit were issued at a time when the conditions set forth in Section 4.02 were satisfied or waived, such payment shall be applied solely to pay the Loans of, and LC Disbursements owed to, all non-Defaulting Lenders on a pro rata basis prior to being applied to the payment of any Loans of, or LC Disbursements owed to, such Defaulting Lender until such time as all Loans and funded and unfunded participations in the Borrower's obligations corresponding to such Defaulting Lender's LC Exposure and Swingline Loans are held by the Lenders pro rata in accordance with the Commitments without giving effect to clause (d) below. Any payments, prepayments or other amounts paid or payable to a Defaulting Lender that are applied (or held) to pay amounts owed by a Defaulting Lender or to post cash collateral pursuant to this Section shall be deemed paid to and redirected by such Defaulting Lender, and each Lender irrevocably consents hereto;

(c) the Commitment and Revolving Credit Exposure of such Defaulting Lender shall not be included in determining whether the Required Lenders have taken or may take any action hereunder (including any consent to any amendment, waiver or other modification pursuant to Section 9.02); provided, further, that any amendment, waiver or other modification requiring the consent of all Lenders or all Lenders directly affected thereby shall not, except as otherwise provided in Section 9.02, require the consent of such Defaulting Lender in accordance with the terms hereof;

(d) if any Swingline Exposure or LC Exposure exists at the time such Lender becomes a Defaulting Lender then:

(i) all or any part of the Swingline Exposure and LC Exposure of such Defaulting Lender (other than, in the case of a Defaulting Lender that is the Swingline Lender, the portion of such Swingline Exposure referred to in clause (b) of the definition of such term) shall be reallocated among the non-Defaulting Lenders in accordance with their respective Applicable Percentages but only to the extent that such reallocation does not, as to any non-Defaulting Lender, cause such non-Defaulting Lender's Revolving Credit Exposure to exceed its Commitment;

(ii) if the reallocation described in clause (i) above cannot, or can only partially, be effected, the Borrower shall within one (1) Business Day following notice by the Administrative Agent (x) first, prepay such Swingline Exposure and (y) second, cash collateralize for the benefit of the Issuing Bank only the Borrower's obligations corresponding to such Defaulting Lender's LC Exposure (after giving effect to any partial reallocation pursuant to clause (i) above) in accordance with the procedures set forth in Section 2.06(j) for so long as such LC Exposure is outstanding;

(iii) if the Borrower cash collateralizes any portion of such Defaulting Lender's LC Exposure pursuant to clause (ii) above, the Borrower shall not be required to pay any fees to such Defaulting Lender pursuant to Section 2.12(b) with respect to such Defaulting Lender's LC Exposure during the period such Defaulting Lender's LC Exposure is cash collateralized;

(iv) if the LC Exposure of the non-Defaulting Lenders is reallocated pursuant to clause (i) above, then the fees payable to the Lenders pursuant to Section 2.12(a) and Section 2.12(b) shall be adjusted in accordance with such non-Defaulting Lenders' Applicable Percentages; and

(v) if all or any portion of such Defaulting Lender's LC Exposure is neither reallocated nor cash collateralized pursuant to clause (i) or (ii) above, then, without prejudice to any rights or remedies of the Issuing Bank or any other Lender hereunder, all letter of credit fees payable under Section 2.12(b) with respect to such Defaulting Lender's LC Exposure shall be payable to the Issuing Bank until and to the extent that such LC Exposure is reallocated and/or cash collateralized; and

(e) so long as such Lender is a Defaulting Lender, the Swingline Lender shall not be required to fund any Swingline Loan and the Issuing Bank shall not be required to issue, amend or increase any Letter of Credit, unless it is satisfied that the related exposure and the Defaulting Lender's then outstanding LC Exposure will be 100% covered by the Commitments of the non-Defaulting Lenders and/or cash collateral will be provided by the Borrower in accordance with Section 2.22(d), and Swingline Exposure related to any such newly made Swingline Loan or LC Exposure related to any newly issued or increased Letter of Credit shall be allocated among non-Defaulting Lenders in a manner consistent with Section 2.22(d)(i) (and such Defaulting Lender shall not participate therein).

If (i) a Bankruptcy Event or a Bail-In Action with respect to a Lender Parent shall occur following the date hereof and for so long as such event shall continue or (ii) the Swingline Lender or the Issuing Bank has a good faith belief that any Lender has defaulted in fulfilling its obligations under one or more other agreements in which such Lender commits to extend credit, the Swingline Lender shall not be required to fund any Swingline Loan and the Issuing Bank shall not be required to issue, amend or increase any Letter of Credit, unless the Swingline Lender or the Issuing Bank, as the case may be, shall have entered into arrangements with the Borrower or such Lender, satisfactory to the Swingline Lender or the Issuing Bank, as the case may be, to defease any risk to it in respect of such Lender hereunder.

In the event that the Administrative Agent, the Borrower, the Swingline Lender and the Issuing Bank each agrees that a Defaulting Lender has adequately remedied all matters that caused such Lender to be a Defaulting Lender, then the Swingline Exposure and LC Exposure of the Lenders shall be readjusted to

reflect the inclusion of such Lender's Commitment and on such date such Lender shall purchase at par such of the Loans of the other Lenders (other than Swingline Loans) as the Administrative Agent shall determine may be necessary in order for such Lender to hold such Loans in accordance with its Applicable Percentage, whereupon such Lender will cease to be a Defaulting Lender; provided that no adjustments will be made retroactively with respect to fees accrued or payments made by or on behalf of the Borrower while that Lender was a Defaulting Lender; provided, further, that, except to the extent otherwise expressly agreed by the affected parties, no change hereunder from Defaulting Lender to Lender will constitute a waiver or release of any claim of any party hereunder arising from that Lender's having been a Defaulting Lender.

ARTICLE III

Representations and Warranties

The Borrower represents and warrants to the Lenders that:

SECTION 1.01. Organization; Powers; Subsidiaries. Each of the Borrower and its Material Subsidiaries is duly organized, validly existing and in good standing (to the extent the concept is applicable in such jurisdiction) under the laws of the jurisdiction of its organization, has all requisite organizational power and authority to carry on its business as now conducted and, except where the failure to do so, individually or in the aggregate, could not reasonably be expected to result in a Material Adverse Effect, is qualified to do business in, and, to the extent the concept is applicable in such jurisdiction, is in good standing in, every jurisdiction where its ownership, lease or operation of properties or the conduct of its business requires such qualification. Schedule 3.01 hereto identifies each Subsidiary as of the Effective Date, noting whether such Subsidiary is a Material Subsidiary, the jurisdiction of its incorporation or organization, as the case may be, the percentage of issued and outstanding shares of each class of its capital stock or other equity interests owned by the Borrower and the other Subsidiaries and, if such percentage is not 100% (excluding (i) directors' qualifying shares and (ii) shares issued to foreign nationals to the extent required by applicable law), a description of each class issued and outstanding. All of the outstanding shares of capital stock and other equity interests of each Subsidiary Guarantor and each other Subsidiary pledged to the Administrative Agent are validly issued and outstanding and, to the extent applicable, fully paid and nonassessable and, as of the Effective Date, all such shares and other equity interests indicated on Schedule 3.01 as owned by the Borrower or another Subsidiary are owned, beneficially and of record, by the Borrower or any Subsidiary free and clear of all Liens, other than Liens permitted pursuant to Section 6.02. Except as indicated on Schedule 3.01 hereto, as of the Effective Date, there are no outstanding commitments or other obligations of the Borrower or any Subsidiary to issue, and no options, warrants or other rights of any Person to acquire, any shares of any class of capital stock or other equity interests of the Borrower or any Subsidiary.

SECTION 1.02. Authorization; Enforceability. The Transactions are within each Loan Party's organizational powers and have been duly authorized by all necessary organizational actions and, if required, actions by equity holders. The Loan Documents to which each Loan Party is a party have been duly executed and delivered by such Loan Party and constitute a legal, valid and binding obligation of such Loan Party, enforceable in accordance with its terms, subject to (i) applicable bankruptcy, insolvency, reorganization, moratorium or other laws affecting creditors' rights generally, (ii) general principles of equity, regardless of whether considered in a proceeding in equity or at law and (iii) requirements of reasonableness, good faith and fair dealing.

SECTION 1.03. Governmental Approvals; No Conflicts. (a) The Transactions do not require any consent or approval of, registration or filing with, or any other action by, any Governmental Authority, except such as have been, or will be by the time required, obtained or made and are, or will be by the time required, in full force and effect and except for any filings, registrations, endorsements, notarizations, stampings and/or notifications necessary to perfect Liens created pursuant to the Loan Documents, (b) the Transactions will not violate in any material respect any applicable material law or regulation or the charter, by-laws or other organizational documents of any Loan Party or any of its Material Subsidiaries or any material order of any Governmental Authority binding upon any Loan Party or any of the Material Subsidiaries or its assets, (c) the Transactions will not violate or result in a default under any indenture, material agreement or other material instrument binding upon any Loan Party or any

of its Material Subsidiaries or its assets, or give rise to a right thereunder to require any payment to be made by any Loan Party or any Material Subsidiary, except, in the case of clause (c), for any such violations, defaults or rights that could not reasonably be expected to result in a Material Adverse Effect, and (d) the Transactions will not result in the creation or imposition of any Lien on any asset of any Loan Party or any of its Material Subsidiaries, other than Liens created under the Loan Documents.

SECTION 1.04. Financial Condition; No Material Adverse Change. The Borrower has heretofore furnished to the Lenders its consolidated balance sheet and statements of income, stockholders equity and cash flows as of and for the fiscal year ended December 31, 2019, reported on by Deloitte & Touche LLP, independent public accountants. Such financial statements present fairly, in all material respects, the financial position and results of operations and cash flows of the Borrower and its consolidated Subsidiaries as of such dates and for such periods in accordance with GAAP.

(b) Since December 31, 2019, except for reasonably foreseeable and expected consequences of the COVID-19 pandemic as of the Effective Date, there has been no material adverse change in the business, assets, operations or financial condition of the Borrower and its Subsidiaries, taken as a whole.

SECTION 1.05. Properties. Except for Liens permitted pursuant to Section 6.02, each of the Borrower and its Subsidiaries has good title to, or (to the knowledge of the Borrower or any Subsidiary) valid leasehold interests in, all its real and personal property (other than intellectual property, which is subject to Section 3.05(b)) material to its business, except as could not reasonably be expected to result in a Material Adverse Effect.

(b) Each of the Borrower and its Subsidiaries owns, or is licensed to use (subject to the knowledge-qualified infringement representation in this Section 3.05(b)), all trademarks, trade names, copyrights, patents and other intellectual property material to its business, and the use thereof by the Borrower and its Subsidiaries, to any Loan Party's knowledge, does not infringe upon the rights of any other Person, except for any such infringements, or ownership or license issues, that, individually or in the aggregate, could not reasonably be expected to result in a Material Adverse Effect.

SECTION 1.06. Litigation and Environmental Matters. There are no actions, suits, proceedings or investigations by or before any arbitrator or Governmental Authority pending against or, to the knowledge of the Borrower, threatened in writing against or affecting the Borrower or any of its Subsidiaries (i) that could reasonably be expected, individually or in the aggregate, to result in a Material Adverse Effect or (ii) that involve this Agreement or the Transactions.

(b) Except with respect to matters that, individually or in the aggregate, could not reasonably be expected to result in a Material Adverse Effect, neither the Borrower nor any of its Subsidiaries (i) has failed to comply with any Environmental Law or to obtain, maintain or comply with any permit, license or other approval required under any Environmental Law, (ii) is subject to any Environmental Liability, or (iii) has received written notice of any claim with respect to any Environmental Liability.

SECTION 1.07. Compliance with Laws and Agreements. Each of the Borrower and its Subsidiaries is in compliance with all laws, regulations and orders of any Governmental Authority applicable to it or its property and all indentures, agreements and other instruments binding upon it or its property, except where the failure to do so, individually or in the aggregate, could not reasonably be expected to result in a Material Adverse Effect.

SECTION 1.08. Investment Company Status. Neither the Borrower nor any of its Subsidiaries is an "investment company" as defined in, or subject to regulation as an "investment company" under, the Investment Company Act of 1940.

SECTION 1.09. Taxes. Each of the Borrower and its Subsidiaries has timely filed or caused to be filed all federal income Tax returns and all other material Tax returns and reports required to have been filed by it and has paid, caused to be paid or made a provision for the payment of all federal income Taxes and all other material Taxes required to have been paid by it, except (a) Taxes that are

being contested in good faith by appropriate proceedings and for which the Borrower or such Subsidiary, as applicable, has set aside on its books adequate reserves in accordance with GAAP or (b) to the extent that the failure to do so could not reasonably be expected to result in a Material Adverse Effect.

SECTION 1.10. ERISA. No ERISA Event has occurred or is reasonably expected to occur that, when taken together with all other such ERISA Events for which liability is reasonably expected to occur, could reasonably be expected to result in a Material Adverse Effect.

SECTION 1.11. Disclosure. As of the Effective Date, the Borrower has disclosed to the Lenders all agreements, instruments and corporate or other restrictions to which it or any of its Subsidiaries is subject, and all other matters known to it, that, individually or in the aggregate, could reasonably be expected to result in a Material Adverse Effect. All written information and all information that is formally presented at a general meeting (which may be a telephonic meeting) of the Lenders, other than any projections, estimates, forecasts and other forward-looking information and information of a general economic or industry-specific nature furnished by or on behalf of the Borrower or any Subsidiary to the Administrative Agent or any Lender pursuant to or in connection with this Agreement or any other Loan Document, when taken as a whole and after giving effect to all supplements and updates thereto, does not (when furnished) contain any untrue statement of material fact or omit to state a material fact necessary in order to make the statements contained therein not materially misleading (when taken as a whole) in light of the circumstances under which such statements are made; provided that, with respect to forecasts or projections, the Borrower represents only that such information was prepared in good faith based upon assumptions believed by the Borrower to be reasonable at the time prepared (it being understood by the Administrative Agent and the Lenders that any such projections are not to be viewed as facts that are subject to significant uncertainties and contingencies, many of which are beyond the control of the Borrower and its Subsidiaries, that no assurances can be given that such projections will be realized and that actual results may differ materially from such projections). As of the Effective Date, to the best knowledge of the Borrower, the information included in the Beneficial Ownership Certification provided on or prior to the Effective Date to any Lender in connection with this Agreement is true and correct in all respects.

SECTION 1.12. Liens. There are no Liens on any of the real or personal properties of the Borrower or any Subsidiary except for Liens permitted by Section 6.02.

SECTION 1.13. No Default. No Default or Event of Default has occurred and is continuing.

SECTION 1.14. No Burdensome Restrictions. The Borrower is not subject to any Burdensome Restrictions except Burdensome Restrictions permitted under Section 6.09.

SECTION 1.15. Solvency. The Borrower and its Subsidiaries taken as a whole are Solvent as of the Effective Date.

SECTION 1.16. Insurance. The Borrower maintains, and has caused each Subsidiary to maintain, with financially sound and reputable insurance companies, insurance on all their real and personal property in such amounts, subject to such deductibles and self-insurance retentions and covering such properties and risks as are adequate and customarily maintained by companies engaged in the same or similar businesses operating in the same or similar locations.

SECTION 1.17. Security Interest in Collateral. The Collateral Documents, upon execution and delivery thereof by the parties thereto, will create in favor of the Administrative Agent, for the benefit of the Secured Parties, a valid and enforceable security interest in the Collateral covered thereby and (i) when the Collateral constituting certificated securities (as defined in the UCC) is delivered to the Administrative Agent, together with instruments of transfer duly endorsed in blank, the Liens under the Collateral Documents will constitute a fully perfected security interest in all right, title and interest of the respective Loan Parties thereunder in such Collateral, prior and superior in right to any other Person, except for Liens permitted by Section 6.02 and (ii) when financing statements in appropriate form are filed in the applicable filing offices, the security interest created under the Collateral Documents will constitute a fully perfected security interest in all right, title and interest of the respective Loan Parties in

the remaining Collateral to the extent perfection can be obtained by filing UCC financing statements, prior and superior to the rights of any other Person, except for Liens permitted by Section 6.02.

SECTION 1.18. Anti-Corruption Laws and Sanctions. The Borrower has implemented and maintains in effect policies and procedures designed to ensure compliance by the Borrower, its Subsidiaries and their respective directors, officers, employees and agents with Anti-Corruption Laws and applicable Sanctions, and the Borrower, its Subsidiaries and their respective officers and directors and to the knowledge of the Borrower its employees and agents, are in compliance with Anti-Corruption Laws and applicable Sanctions in all material respects. None of (a) the Borrower, any Subsidiary, any of their respective directors or officers or to the knowledge of the Borrower or such Subsidiary employees, or (b) to the knowledge of the Borrower, any agent of the Borrower or any Subsidiary that will act in any capacity in connection with or benefit from the credit facility established hereby, is a Sanctioned Person. No Borrowing or Letter of Credit, use of proceeds or other transaction contemplated by this Agreement will violate any Anti-Corruption Law or applicable Sanctions.

SECTION 1.19. Affected Financial Institutions. No Loan Party is an Affected Financial Institution.

SECTION 1.20. Plan Assets; Prohibited Transactions. None of the Borrower or any of its Subsidiaries is an entity deemed to hold "plan assets" (within the meaning of the Plan Asset Regulations), and neither the execution, delivery nor performance of the transactions contemplated under this Agreement, including the making of any Loan and the issuance of any Letter of Credit hereunder, will give rise to a non-exempt prohibited transaction under Section 406 of ERISA or Section 4975 of the Code.

SECTION 1.21. Margin Regulations. The Borrower is not engaged and will not engage, principally or as one of its important activities, in the business of purchasing or carrying Margin Stock, or extending credit for the purpose of purchasing or carrying Margin Stock, and no part of the proceeds of any Borrowing or Letter of Credit extension hereunder will be used to buy or carry any Margin Stock. Following the application of the proceeds of each Borrowing or drawing under each Letter of Credit, not more than 25% of the value of the assets (either of the Borrower only or of the Borrower and its Subsidiaries on a consolidated basis) will be Margin Stock.

SECTION 1.22. Healthcare and Regulatory Authority Matters. Except, in each case, as may be disclosed on Schedule 3.22:

(a) The Borrower and each of its Subsidiaries, and to the knowledge of the Borrower, each of their respective employees and contractors solely with respect to the exercise of their respective duties on behalf of the Borrower or its Subsidiaries, are and since January 1, 2017 have been, in compliance in all material respects with all applicable Health Care Laws. Neither the Borrower nor any of the Subsidiaries has received written notice of any pending or, to the Borrower's or any Subsidiaries' knowledge, threatened claim, suit, proceeding, hearing, enforcement, audit, inspection, investigation, seizure, shutdown, field action, recall, untitled letter or warning letter, notice of suspension or cancellation of Drug Establishment License or other license, U.S. Food and Drug Administration ("FDA") Form 483, arbitration or other similar correspondence or action from any applicable Governmental Authority with jurisdiction over the safety, efficacy, development, manufacture, testing, storage, transportation, distribution, supply, packaging, holding, import or export, or sale of pharmaceutical products (each a "Regulatory Authority"), alleging that any operation or activity of the Borrower or any Subsidiary, or any of the products, is in material violation of any applicable Health Care Law. None of the Borrower, its Subsidiaries or any of their respective officers, directors, employees or, to the knowledge of the Borrower, agents have, since January 1, 2017, engaged in any activities which are cause for civil penalties or mandatory or permissive exclusion from any state or federal healthcare program.

(b) All products formulated, developed, manufactured, tested, distributed, supplied, packaged, held, stored, transported, sold, imported, exported, marketed, advertised, promoted or distributed by the Borrower and each of its Subsidiaries, as applicable, are being, and since January 1, 2017 have been, formulated, developed, manufactured, tested, distributed, supplied, packaged, held,

stored, transported, sold, imported, exported, marketed, advertised, promoted or distributed in compliance in all material respects with all applicable Health Care Laws; provided that with respect to products manufactured by third parties that are not Affiliates of the Borrower or any Subsidiary that are sold by, or incorporated in products sold by, Borrower or such Subsidiary, this representation is limited to Health Care Laws applicable to Borrower and each of its Subsidiaries and excludes such third parties.

(c) The Borrower and each of its Subsidiaries owns, holds or possesses, and is operating and since January 1, 2017 has operated in material compliance with, all licenses, franchises, permits, privileges, variances, immunities, approvals, clearances, registrations, exemptions, and other authorizations from Regulatory Authorities that are necessary under any applicable Health Care Law to conduct its business as currently conducted (collectively, the “Health Care Permits”), and all such Health Care Permits are in full force and effect. The Borrower and each of its Subsidiaries has fulfilled and performed all of its material obligations with respect to the Health Care Permits, and no event has occurred which allows, or after notice or lapse of time would allow, revocation or termination thereof or results in any other material impairment of the rights of the holder of any Health Care Permit.

(d) None of the Borrower, its Subsidiaries, or their respective officers, directors, or, to the knowledge of the Borrower, holders of five percent (5%) or more of the Equity Interests of the Borrower and/or any of its Subsidiaries, employees, agents or contractors is currently, or has in the past been, debarred, suspended or excluded from participation, or otherwise ineligible to participate, in any Federal Health Care Program or similar program outside of the United States pursuant to any applicable Health Care Laws, including, without limitation, 42 U.S.C. § 1320a-7 or holds a certificate of registration with a regulatory body which is suspended or has been revoked or has a pending discipline proceeding with any regulatory body.

(e) Neither the Borrower nor any Subsidiary has knowingly and willfully offered, paid, solicited or received any remuneration (including any kickback, bribe or rebate), directly or indirectly, overtly or covertly, in cash or in kind in return for, or to induce, the purchase, lease or order, or the arranging for or recommending of the purchase, lease or order, of any good, facility, item, or service for which payment may be made in whole or in part under any Federal Health Care Program or similar program outside the United States, except in compliance with applicable Health Care Laws.

(f) There are no pending or, to the knowledge of the Borrower or any Subsidiary, threatened material inquiries, inspections, audits, overpayments, qui tam actions, appeals, investigations, professional disciplinary or regulatory proceedings, or claims or other actions which relate to a material violation of any Health Care Laws or which, if resolved in a manner adverse to the Borrower or its Subsidiaries, would result in the imposition of any material penalties under a Health Care Law, restrict their ability under a Health Care Law to conduct the business as currently conducted in any material respect, or result in their ineligibility, debarment, suspension, exclusion from participation in any Federal Health Care Program or similar program outside the United States, and none of the Borrower or its Subsidiaries is currently or has been a party to a corporate integrity agreement, deferred prosecution agreement, consent decree, settlement, agreement or similar agreements or orders mandating or prohibiting future or past activities relating to the safety, efficacy, development, manufacture, testing, storage, transportation, distribution, supply, packaging, holding, import or export, marketing or sale of pharmaceutical products, or has any reporting or disclosure obligations pursuant to a settlement agreement, plan or correction or other remedial measure entered into with any Regulatory Authority.

(g) Since June 9, 2017, other than as disclosed to the Administrative Agent with respect to a voluntary recall, there have been no recalls, detentions, withdrawals, field corrections, safety alerts, “dear doctor” letters, investigator notices, seizures, termination or suspension of manufacturing, or other notice of action relating to an alleged lack of safety, efficacy or regulatory compliance voluntarily or involuntarily undertaken, or requested or threatened by a Governmental Authority, relating to any of the Borrower’s or any of its Subsidiaries’ products.

ARTICLE IV

Conditions

SECTION 1.01. Effective Date. This Agreement shall not become effective until the date on which each of the following conditions is satisfied (or waived in accordance with Section 9.02):

(a) The Administrative Agent (or its counsel) shall have received (i) from each party hereto either (A) a counterpart of this Agreement signed on behalf of such party or (B) written evidence reasonably satisfactory to the Administrative Agent (which may include telecopy or electronic transmission of a signed signature page of this Agreement) that such party has signed a counterpart of this Agreement and (ii) duly executed copies of the Loan Documents and such other legal opinions, certificates, documents, instruments and agreements, in each case, to the extent described in the list of documents attached as Exhibit E.

(b) The Administrative Agent shall have received a favorable written opinion (addressed to the Administrative Agent and the Lenders and dated the Effective Date) of Johanna Roberts, General Counsel of the Loan Parties, covering such matters relating to the Loan Parties, the Loan Documents or the Transactions as the Administrative Agent shall reasonably request.

(c) The Administrative Agent shall have received such documents and certificates relating to the organization, existence and good standing of the initial Loan Parties in their respective jurisdictions of organization, the authorization of the Transactions and any other legal matters relating to such Loan Parties, the Loan Documents or the Transactions, all in form and substance reasonably satisfactory to the Administrative Agent and its counsel and as further described in the list of documents identified in Section C of Exhibit E.

(d) The Administrative Agent shall have received a certificate, dated the Effective Date and signed by the President, a Vice President or a Financial Officer of the Borrower, certifying (i) that the representations and warranties contained in Article III are true and correct in all material respects (provided that any representation or warranty that is qualified by materiality or Material Adverse Effect shall be true and correct in all respects) as of such date except to the extent that such representations and warranties specifically refer to an earlier date, in which case they are true and correct in all material respects (or, in the case of any representation or warranty qualified by materiality or Material Adverse Effect in all respects) as of such earlier date and (ii) that no Default or Event of Default has occurred and is continuing as of such date.

(e) [Reserved].

(f) (i) The Administrative Agent shall have received, at least five (5) days prior to the Effective Date, all documentation and other information regarding the Borrower requested in connection with applicable “know your customer” and anti-money laundering rules and regulations, including the Patriot Act, to the extent requested in writing of the Borrower at least ten (10) days prior to the Effective Date and (ii) to the extent the Borrower qualifies as a “legal entity customer” under the Beneficial Ownership Regulation, at least five (5) days prior to the Effective Date, any Lender that has requested, in a written notice to the Borrower at least ten (10) days prior to the Effective Date, a Beneficial Ownership Certification in relation to the Borrower shall have received such Beneficial Ownership Certification (provided that, upon the execution and delivery by such Lender of its signature page to this Agreement, the condition set forth in this clause (f) shall be deemed to be satisfied).

(g) The Administrative Agent shall have received all fees and other amounts due and payable on or prior to the Effective Date, including, to the extent invoiced at least one (1) Business Day prior to the Effective Date, reimbursement or payment of all reasonable and documented out-of-pocket expenses required to be reimbursed or paid by the Borrower hereunder.

The Administrative Agent shall notify the Borrower and the Lenders of the Effective Date, and such notice shall be conclusive and binding.

SECTION 1.02. Each Credit Event. The obligation of each Lender to make a Loan on the occasion of any Borrowing (other than a conversion or continuation of any Loan), and of the Issuing Bank to issue, amend or extend any Letter of Credit, is subject to the satisfaction of (or waiver of in accordance with Section 9.02) the following conditions:

(a) The representations and warranties of the Borrower set forth in this Agreement shall be true and correct in all material respects (provided that any representation or warranty that is qualified by materiality or Material Adverse Effect shall be true and correct in all respects) on and as of the date of such Borrowing or the date of issuance, amendment, renewal or extension of such Letter of Credit, as applicable, except to the extent that such representations and warranties specifically refer to an earlier date, in which case they shall be true and correct in all material respects (provided that any representation or warranty that is qualified by materiality or Material Adverse Effect shall be true and correct in all respects) as of such earlier date.

(b) At the time of and immediately after giving effect to such Borrowing or the issuance, amendment or extension of such Letter of Credit, as applicable, no Default or Event of Default shall have occurred and be continuing.

Each Borrowing (other than a conversion or continuation of any Loans) and each issuance, amendment or extension of a Letter of Credit shall be deemed to constitute a representation and warranty by the Borrower on the date thereof as to the matters specified in paragraphs (a) and (b) of this Section.

ARTICLE V

Affirmative Covenants

Until the Commitments have expired or been terminated and the principal of and interest on each Loan and all fees payable hereunder shall have been paid in full (other than Obligations expressly stated to survive such payment and termination) and all Letters of Credit shall have expired or terminated (or shall have been cash collateralized or backstopped pursuant to arrangements reasonably satisfactory to the Administrative Agent) and all LC Disbursements shall have been reimbursed, the Borrower covenants and agrees with the Lenders that:

SECTION 1.01. Financial Statements and Other Information. The Borrower will furnish to the Administrative Agent for distribution to each Lender:

(a) within ninety (90) days after the end of each fiscal year of the Borrower (or, if earlier or later, by the date that the Annual Report on Form 10-K of the Borrower for such fiscal year would be required to be filed under the rules and regulations of the SEC, giving effect to any automatic extension available thereunder for the filing of such form) commencing with the fiscal year of the Borrower ended December 31, 2020, its audited consolidated balance sheet and related statements of operations, stockholders' equity and cash flows as of the end of and for such year, setting forth in each case in comparative form the figures for the previous fiscal year, all reported on by Deloitte & Touche LLP or other independent public accountants of recognized national standing (without a "going concern" or like qualification, commentary or exception and without any qualification or exception as to the scope of such audit) to the effect that such consolidated financial statements present fairly in all material respects the financial condition and results of operations of the Borrower and its consolidated Subsidiaries on a consolidated basis in accordance with GAAP consistently applied;

(b) within forty-five (45) days after the end of each of the first three fiscal quarters of each fiscal year of the Borrower (or, if earlier or later, by the date that the Quarterly Report on Form 10-Q of the Borrower for such fiscal quarter would be required to be filed under the rules and regulations of the SEC, giving effect to any automatic extension available thereunder for the filing of such form) commencing with the fiscal quarter of the Borrower ended June 30, 2020, its consolidated balance sheet and related statements of operations, stockholders' equity and cash flows as of the end of and for such fiscal quarter and the then elapsed portion of the fiscal year, setting forth in each case in comparative form the figures for the corresponding period or periods of (or, in the case of the balance sheet, as of the end of) the previous fiscal year, all certified by one of its Financial Officers as presenting fairly in all material respects the financial condition and results of operations of the Borrower and its consolidated Subsidiaries on a consolidated basis in accordance with GAAP consistently applied, subject to normal year-end audit adjustments and the absence of footnotes;

(c) concurrently with any delivery of financial statements under clause (a) or (b) above to the Administrative Agent, a certificate substantially in the form of Exhibit B of a Financial Officer of the Borrower (i) certifying as to whether, to the knowledge of such Financial Officer, a Default has occurred and is continuing and, if a Default has occurred that is continuing, specifying the details thereof and any action taken or proposed to be taken with respect thereto, (ii) setting forth reasonably detailed calculations demonstrating compliance with Section 6.12 and (iii) stating whether any change in GAAP or in the application thereof has occurred since the date of the audited financial statements referred to in Section 3.04 and, if any such change has occurred, specifying the effect of such change on the financial statements accompanying such certificate; provided, that if the financial statements under clause (a) or (b) are deemed to have been delivered pursuant to the paragraph appearing at the end of this Section 5.01, then the certificate required to be delivered pursuant to this clause (c) may be delivered to the Administrative Agent at any time within ninety (90) days after the end of the applicable fiscal year of the Borrower with respect to certificates required to be delivered in connection with financial statements under clause (a) or within forty-five (45) days after the end of the applicable fiscal quarter of the Borrower with respect to certificates required to be delivered in connection with financial statements under clause (b);

(d) [reserved];

(e) as soon as available, but in any event not later than thirty-five (35) days after the end of, ~~and no earlier than thirty (30) days prior to the end of~~, each fiscal year of the Borrower, a copy of the plan and forecast (including a projected consolidated balance sheet, income statement and funds flow statement) of the Borrower for each quarter of the upcoming fiscal year in form reasonably satisfactory to the Administrative Agent;

(f) promptly after the same become publicly available, copies of all annual, regular, periodic and special reports, proxy statements and registration statements filed by the Borrower or any Material Subsidiary with the SEC, or any Governmental Authority succeeding to any or all of the functions of said Commission, or with any national securities exchange, or distributed by the Borrower to its shareholders generally, as the case may be;

(g) promptly after receipt thereof by the Borrower or any Subsidiary, copies of each notice or other correspondence received from the SEC (or comparable agency in any applicable non-U.S. jurisdiction) concerning any investigation or possible investigation or other inquiry by the SEC or such other agency regarding financial or other operational results of the Borrower or any Subsidiary thereof; and

(h) promptly following any request therefor, (x) such other information regarding the operations, business affairs and financial condition of the Borrower or any Subsidiary, or compliance with the terms of this Agreement, as the Administrative Agent or any Lender (acting through the Administrative Agent) may reasonably request and (y) information and documentation reasonably requested by the Administrative Agent or any Lender for purposes of compliance with applicable “know your customer” and anti-money laundering rules and regulations, including the Patriot Act and the Beneficial Ownership Regulation.

Documents required to be delivered pursuant to Section 5.01(a), (b) or (f) (to the extent any such documents are included in materials otherwise filed with the SEC) may be delivered electronically and, if so delivered, shall be deemed to have been delivered on the date (i) on which such materials are publicly available as posted on the Electronic Data Gathering, Analysis and Retrieval system (EDGAR); or (ii) on which such documents are posted on the Borrower’s behalf on an Internet or intranet website, if any, to which the Administrative Agent has access (whether a commercial, third-party website or whether sponsored by the Administrative Agent); provided that other than with respect to documents required to be delivered pursuant to clause (f), the Borrower shall notify the Administrative Agent (by telecopier or electronic mail) of the filing of any such documents.

SECTION 1.02. Notices of Material Events. The Borrower will furnish to the Administrative Agent (for distribution to each Lender) written notice of the following promptly after a Responsible Officer having actual knowledge thereof:

- (a) the occurrence of any Default;
- (b) the filing or commencement of any Proceeding by or before any arbitrator or Governmental Authority against or affecting the Borrower or any Subsidiary that could reasonably be expected to result in a Material Adverse Effect;
- (c) the occurrence of any ERISA Event that, alone or together with any other ERISA Events that have occurred, could reasonably be expected to result in a Material Adverse Effect;
- (d) any material change in accounting or financial reporting practices by the Borrower or any Subsidiary;
- (e) any other development that results in, or could reasonably be expected to result in, a Material Adverse Effect; and
- (f) any change in the information provided in the Beneficial Ownership Certification delivered to such Lender that would result in a change to the list of beneficial owners identified in such certification.

Each notice delivered under this Section (i) shall be in writing, (ii) shall contain a heading or a reference line that reads “Notice under Section 5.02 of the Penumbra, Inc. Credit Agreement dated April 24, 2020” and (iii) shall be accompanied by a statement of a Financial Officer or other executive officer of the Borrower setting forth the details of the event or development requiring such notice and any action taken or proposed to be taken with respect thereto.

SECTION 1.03. Existence; Conduct of Business. The Borrower will, and will cause each of its Material Subsidiaries to, do or cause to be done (a) all things necessary to preserve, renew and keep in full force and effect its legal existence and (b) take, or cause to be taken, all reasonable actions to preserve, renew and keep in full force and effect the rights, qualifications, licenses, permits, privileges, franchises, governmental authorizations and intellectual property rights material to the conduct of the business of the Borrower and Subsidiaries taken as a whole, and maintain all requisite authority to conduct its business in each jurisdiction in which its business is conducted, except, in the case of this clause (b), to the extent failure to do so could not reasonably be expected to result in a Material Adverse Effect; provided that, the foregoing shall not prohibit any merger, consolidation, disposition, liquidation or, dissolution or other transaction permitted under Section 6.03.

SECTION 1.04. Payment of Taxes. The Borrower will, and will cause each of its Subsidiaries to, pay Tax liabilities that, if not paid, could reasonably be expected to result in a Material Adverse Effect before the same shall become delinquent or in default, except where (a) the validity or amount thereof is being contested in good faith by appropriate proceedings, (b) the Borrower or such Subsidiary has set aside on its books adequate reserves with respect thereto in accordance with GAAP and (c) the failure to make payment pending such contest could not reasonably be expected to result in a Material Adverse Effect.

SECTION 1.05. Maintenance of Properties; Insurance. The Borrower will, and will cause each of its Subsidiaries to, (a) keep and maintain all tangible property material to the conduct of its business in good working order and condition, ordinary wear and tear and casualty excepted and except (i) as otherwise permitted by Section 6.03 or (ii) where the failure to do so could not reasonably be expected to result in a Material Adverse Effect, and (b) maintain, in all material respects, with carriers reasonably believed by the Borrower to be financially sound and reputable or through reasonable and adequate self-insurance (i) insurance in such amounts and against such risks and such other hazards, as is customarily maintained by companies engaged in the same or similar businesses operating in the same or similar locations and (ii) all insurance required pursuant to the Collateral Documents. The Borrower will furnish to the Administrative Agent, upon any reasonable request of the Administrative Agent, information in reasonable detail as to the insurance so maintained. The Borrower shall deliver to the Administrative Agent within sixty (60) days after the Effective Date (or such later date as the Administrative Agent may reasonably accept), (i) certificates of insurance listing the Administrative Agent as (x) lender loss payee for the property casualty insurance policies of the Borrower and the

Subsidiary Guarantors and (y) additional insured with respect to the liability insurance policies of the Borrower and the Subsidiary Guarantors and insurance endorsements (x) to all "All Risk" physical damage insurance policies on all of the Loan Parties' tangible personal property and assets naming the Administrative Agent as lender loss payee, and (y) to all general liability and other liability policies naming the Administrative Agent an additional insured. In the event the Borrower or any of its Subsidiaries at any time or times hereafter shall fail to obtain or maintain any of the policies or insurance required herein or to pay any premium in whole or in part then due and payable relating thereto, then the Administrative Agent, without waiving or releasing any obligations or resulting Default hereunder, may at any time or times thereafter (but shall be under no obligation to do so) obtain and maintain such policies of insurance and pay such premiums and take any other action with respect thereto which the Administrative Agent reasonably deems advisable, it being agreed that the Administrative Agent shall reasonably promptly notify the Borrower of any such action. All sums so disbursed by the Administrative Agent shall constitute part of the Obligations, payable as provided in this Agreement.

SECTION 1.06. Books and Records; Inspection Rights. The Borrower will, and will cause each of its Subsidiaries to, keep proper books of record and account in which full, true and correct entries in conformity in all material respects with applicable law are made of all material financial dealings and transactions in relation to its business and activities and, subject to Section 5.01(b), in form permitting financial statements conforming with GAAP to be derived therefrom. The Borrower will, and will cause each Subsidiary to, permit any representatives designated by the Administrative Agent or any Lender, at reasonable times upon reasonable prior written notice, to visit and inspect its properties, to examine and make extracts from its books and records and to discuss its affairs, finances and condition with its Financial Officers and, provided that the Borrower or such Subsidiary is afforded the opportunity to participate in such discussion, its independent accountants, all at such reasonable times and as often as reasonably requested; provided that, so long as no Event of Default has occurred and is continuing, the Borrower shall not be required to reimburse the Administrative Agent, any Lender or any of its or their representatives for fees, costs and expenses in connection with the Administrative Agent's or any Lender's exercise of such rights set forth in this sentence more than one time in any calendar year. The Borrower acknowledges that, subject to Section 9.12, the Administrative Agent, after exercising its rights of inspection, may prepare and distribute to the Lenders certain reports pertaining to the Borrower and its Subsidiaries' assets for internal use by the Administrative Agent and the Lenders. Notwithstanding anything to the contrary in this Section 5.06, neither the Borrower nor any Subsidiary will be required to disclose, permit the inspection, examination or making of extracts, or discussion of, any documents, information or other matter that (i) constitutes non-financial trade secrets or non-financial proprietary information, (ii) in respect of which disclosure to the Administrative Agent (or any designated representative) is then prohibited by law or any agreement binding on any Loan Party or any Subsidiary or (iii) is subject to attorney-client or similar privilege or constitutes attorney work-product.

SECTION 1.07. Compliance with Laws and Material Contractual Obligations. The Borrower will, and will cause each of its Subsidiaries to, (i) comply with all laws, rules, regulations and orders of any Governmental Authority applicable to it or its property (including without limitation Environmental Laws) and (ii) perform its obligations under material agreements to which it is a party, in each case with respect to clauses (i) and (ii), except where the failure to do so, individually or in the aggregate, could not reasonably be expected to result in a Material Adverse Effect. The Borrower will maintain in effect and enforce policies and procedures designed to ensure compliance by the Borrower, its Subsidiaries and their respective directors, officers, employees and agents with Anti-Corruption Laws and applicable Sanctions.

SECTION 1.08. Use of Proceeds. The proceeds of the Loans will be used only to finance, and Letters of Credit will be issued only to support, the working capital needs, and for general corporate purposes, of the Borrower and its Subsidiaries in the ordinary course of business. No part of the proceeds of any Loan will be used, whether directly or indirectly, for any purpose that entails a violation of any of the regulations of the Federal Reserve Board, including Regulations T, U and X. The Borrower will not request any Borrowing or Letter of Credit, and the Borrower shall not use, and shall procure that its Subsidiaries and its or their respective directors, officers, employees and agents shall not use, the proceeds of any Borrowing or Letter of Credit (i) in furtherance of an offer, payment, promise to pay, or authorization of the payment or giving of money, or anything else of value, to any Person in violation of any Anti-Corruption Laws, (ii) for the purpose of funding, financing or facilitating any activities, business

or transaction of or with any Sanctioned Person, or in any Sanctioned Country, except to the extent permitted for a Person required to comply with Sanctions, or (iii) in any manner that would result in the violation of any Sanctions applicable to any party hereto.

SECTION 1.09. Subsidiary Guarantors; Pledges; Additional Collateral; Further Assurances.

(a) Within forty-five (45) days (or such later date as may be agreed upon by the Administrative Agent) after financial statements have been delivered pursuant to Section 5.01(a) or 5.01(b) and any Subsidiary qualifies as a Material Domestic Subsidiary pursuant to the definition of "Material Domestic Subsidiary" in accordance with the calculations in such financial statements, to the extent any such Subsidiary is not already a Subsidiary Guarantor, the Borrower shall provide the Administrative Agent with written notice thereof and shall cause each such Subsidiary to deliver to the Administrative Agent the Subsidiary Guaranty (or a joinder to the Subsidiary Guaranty as applicable) and a joinder to the Security Agreement (in each case in the form contemplated thereby) pursuant to which such Subsidiary agrees to be bound by the terms and provisions thereof, such Subsidiary Guaranty and the Security Agreement to be accompanied by requisite organizational resolutions, other organizational documentation and legal opinions as may be reasonably requested by, and in form and substance reasonably satisfactory to, the Administrative Agent and its counsel (but, with respect to any such legal opinion, limited to the types of matters covered in the legal opinions delivered pursuant to Section 4.01). Notwithstanding anything to the contrary in any Loan Document, no Excluded Subsidiary shall be required to be a Subsidiary Guarantor.

(b) Subject to the terms, limitations and exceptions set forth in the applicable Collateral Documents, the Borrower will cause, and will cause each other Loan Party to cause, all of its owned property (whether personal, tangible, intangible, or mixed but excluding Excluded Assets) to be subject at all times to perfected Liens in favor of the Administrative Agent for the benefit of the Secured Parties to secure the Secured Obligations in accordance with the terms and conditions of the Collateral Documents on a first priority basis, subject in any case to Liens permitted by Section 6.02 (provided that such perfection with respect to intellectual property shall be limited to the United States). With respect to the pledge of any Equity Interest in any Subsidiary and subject to the terms, limitations and exceptions set forth in the applicable Collateral Documents, the Borrower will cause (A) 100% of the issued and outstanding Equity Interests of each Pledge Subsidiary that is a Domestic Subsidiary and (B) 65% of the issued and outstanding Equity Interests entitled to vote (within the meaning of Treas. Reg. Section 1.956-2(c)(2)) and 100% of the issued and outstanding Equity Interests not entitled to vote (within the meaning of Treas. Reg. Section 1.956-2(c)(2)) in each Pledge Subsidiary that is a Foreign Subsidiary, in each case directly owned by the Borrower or any other Loan Party (other than Excluded Assets) to be subject at all times to a first priority, perfected (subject in any case to Liens permitted by Section 6.02) Lien in favor of the Administrative Agent to secure the Secured Obligations in accordance with the terms and conditions of the Collateral Documents or such other pledge and security documents as the Administrative Agent shall reasonably request. Notwithstanding the foregoing, no such pledge agreement in respect of the Equity Interests of a Foreign Subsidiary shall be required hereunder (A) until the date that is sixty (60) days after the Effective Date or such later date as the Administrative Agent may agree in the exercise of its reasonable discretion with respect thereto, and (B) to the extent the Administrative Agent or its counsel determines that such pledge would not provide material credit support for the benefit of the Secured Parties pursuant to legally valid, binding and enforceable pledge agreements.

(c) Without limiting the foregoing, the Borrower will, and will cause each Subsidiary to, execute and deliver, or cause to be executed and delivered, to the Administrative Agent such documents, agreements and instruments, and will take or cause to be taken such further actions (including the filing and recording of financing statements and other documents and such other actions or deliveries of the type required by Section 4.01, as applicable), which may be required by law or which the Administrative Agent may, from time to time, reasonably request to carry out the terms and conditions of this Agreement and the other Loan Documents and to ensure perfection and priority of the Liens created or intended to be created by the Collateral Documents, subject to the terms, limitations and exceptions set forth herein or in any Collateral Document, all at the expense of the Borrower (except that such perfection with respect to intellectual property shall be limited to the United States).

(d) If any material assets (including any real property or improvements thereto or any interest therein) are acquired by a Loan Party after the Effective Date (other than (i) Excluded Assets or (ii) assets of the type constituting Collateral under the Security Agreement that either become subject to the Lien under the Security Agreement upon acquisition thereof or with respect to which no notice or further action would be required to create or perfect the Administrative Agent's Lien in such assets), the Borrower will notify the Administrative Agent thereof, and, if requested by the Administrative Agent, the Borrower will cause such assets to be subjected to a Lien securing the Secured Obligations and will take, and, as applicable, cause the other Loan Parties to take, such actions as shall be necessary or reasonably requested by the Administrative Agent to grant and perfect such Liens, including actions described in paragraph (c) of this Section, all at the expense of the Borrower, subject, however, to the terms, limitations and exceptions set forth herein or in any Collateral Document.

(e) Notwithstanding the foregoing, in no event shall (i) prior to the occurrence of an Event of Default, any control agreements or control or similar arrangements be required with respect to cash deposit or securities accounts, (ii) notice be required to be sent to account debtors or other contractual third parties prior to the occurrence and absent the continuance of an Event of Default and (iii) the Collateral include escrow accounts established in connection with any Acquisition or Investment or other accounts holding funds for the benefit of persons that are not the Borrower or its Subsidiaries.

SECTION 1.10. Depository Bank. The Borrower will, and will cause each Subsidiary to, maintain the Administrative Agent as its principal depository bank, including for the maintenance of principal operating, administrative, cash management, collection activity, and other deposit accounts for the conduct of business, and as its principal provider for treasury management services.

SECTION 1.11. Healthcare and Regulatory Authority Matters. The Borrower will, and will cause each Subsidiary to, (i) comply in all material respects with all applicable Health Care Laws and (ii) to hold and possess all Health Care Permits and maintain such Health Care Permits in full force and effect in all material respects.

ARTICLE VI

Negative Covenants

Until the Commitments have expired or terminated and the principal of and interest on each Loan and all fees due and payable hereunder have been paid in full (other than Obligations expressly stated to survive such payment and termination) and all Letters of Credit have expired or terminated (or shall have been cash collateralized or backstopped pursuant to arrangements reasonably satisfactory to the Administrative Agent) and all LC Disbursements shall have been reimbursed, the Borrower covenants and agrees with the Lenders that:

SECTION 1.01. Indebtedness. The Borrower will not, and will not permit any Subsidiary to, create, incur, assume or permit to exist any Indebtedness, except:

(a) the Secured Obligations;

(b) Indebtedness existing on the Effective Date and set forth in Schedule 6.01 and amendments, modifications, extensions, refinancings, renewals and replacements of any such Indebtedness that does not increase the outstanding principal amount thereof (other than with respect to unpaid accrued interest and premiums thereon, any committed or undrawn amounts and underwriting discounts, fees, commissions, premiums and expenses associated with such Indebtedness);

(c) Indebtedness of the Borrower to any Subsidiary and of any Subsidiary to the Borrower or any other Subsidiary; provided that (i) Indebtedness of any Subsidiary that is not a Loan Party to any Loan Party shall be subject to the limitations set forth in Section 6.05(d) and (ii) Indebtedness of any Loan Party to any Subsidiary that is not a Loan Party shall be subordinated to the Secured Obligations on terms reasonably satisfactory to the Administrative Agent;

(d) Guarantees by the Borrower of Indebtedness or other obligations of any Subsidiary and by any Subsidiary of Indebtedness or other obligations of the Borrower or any other Subsidiary;

(e) Indebtedness of the Borrower or any Subsidiary incurred to finance the acquisition, construction, repair, replacement, lease or improvement of any fixed or capital assets, including Capital Lease Obligations and any Indebtedness assumed in connection with the acquisition of any such assets or secured by a Lien on any such assets prior to the acquisition thereof, (to the extent such Indebtedness is incurred prior to or within one hundred eighty (180) days after such acquisition or the completion of such construction, repair, replacement, lease or improvement) and amendments, modifications, extensions, refinancings, renewals and replacements of any such Indebtedness; provided that the aggregate outstanding principal amount of Indebtedness permitted by this clause (e) shall not exceed the greater of (i) \$10,000,000 and (ii) three percent (3%) of Consolidated Total Assets (determined by reference to Consolidated Total Assets as of the last day of the most recently ended fiscal quarter of the **Company Borrower** for which financial statements have been delivered (or, if prior to the date of the delivery of the first financial statements to be delivered pursuant to Section 5.01(a) or (b), the most recent financial statements referred to in Section 3.04(a))) at any time outstanding;

(f) Indebtedness of any Person that becomes a Subsidiary of the Borrower after the Effective Date in a transaction permitted by this Agreement (or of any Person not previously a Subsidiary that is merged or consolidated with or into the Borrower or a Subsidiary in a transaction permitted hereunder) or Indebtedness of any Person that is assumed by the Borrower or any Subsidiary in connection with an Acquisition or other acquisition of any property or assets permitted hereunder, which Indebtedness is existing at the time such Person becomes a Subsidiary (or is so merged or consolidated) or such assets are acquired and is not created in contemplation of or in connection with such Person becoming a Subsidiary (or such merger or consolidation) or such assets being acquired, and amendments, modifications, extensions, refinancings, renewals and replacements of any such Indebtedness; provided that the aggregate outstanding principal amount of Indebtedness permitted to be assumed under this clause (f) shall not exceed the greater of (i) \$10,000,000 and (ii) three percent (3%) of Consolidated Total Assets (determined by reference to Consolidated Total Assets as of the last day of the most recently ended fiscal quarter of the **Company Borrower** for which financial statements have been delivered (or, if prior to the date of the delivery of the first financial statements to be delivered pursuant to Section 5.01(a) or (b), the most recent financial statements referred to in Section 3.04(a)));

(g) customer advances or deposits or other endorsements for collection, deposit or negotiation and warranties of products or services, in each case received or incurred in the ordinary course of business;

(h) Indebtedness of the Borrower or any Subsidiary as an account party in respect of trade letters of credit;

(i) Indebtedness of the Borrower or any Subsidiary secured by a Lien on any asset of the Borrower or any Subsidiary; provided that the aggregate outstanding principal amount of Indebtedness permitted by this clause (i) shall not in the aggregate exceed \$10,000,000 at any time;

(j) unsecured Indebtedness of the Borrower (including unsecured Subordinated Indebtedness to the extent subordinated in right of payment to the Secured Obligations on terms reasonably acceptable to the Administrative Agent and Permitted Convertible Indebtedness), to the extent not otherwise permitted under this Section 6.01, and any Indebtedness of the Borrower constituting amendments, modifications, extensions, refinancings, renewals or replacements of any such Indebtedness; provided that (i) both immediately prior to and after giving effect (including pro forma effect) thereto, no Default or Event of Default shall exist or would result therefrom, (ii) such Indebtedness matures after, and does not require any scheduled amortization or other scheduled payments of principal prior to, the date that is 91 days after the Maturity Date (it being understood that any provision requiring an offer to purchase such Indebtedness as a result of change of control or asset sale shall not violate the foregoing restriction), (iii) other than with respect to such Indebtedness in the form of Permitted Convertible Indebtedness, such Indebtedness is not guaranteed by any Subsidiary other than the Subsidiary Guarantors (which guarantees, if such Indebtedness is subordinated, shall be expressly subordinated in right of

payment to the Secured Obligations on terms not less favorable to the Lenders than the subordination terms of such Subordinated Indebtedness), (iv) other than with respect to such Indebtedness in the form of Permitted Convertible Indebtedness, the covenants applicable to such Indebtedness are not more onerous or more restrictive in any material respect (taken as a whole) than the applicable covenants set forth in this Agreement (as determined in the good faith judgment of the board of directors of the Borrower) and (v) the Borrower and the Subsidiaries are in compliance, on a pro forma basis, with the covenants contained in Section 6.12 immediately after giving effect to the incurrence of any such Indebtedness in accordance with the provisions set forth in Section 1.04(b);

(k) unfunded pension fund and other employee benefit plan obligations and liabilities to the extent they are permitted to remain unfunded under applicable law;

(l) Indebtedness representing deferred compensation to employees incurred in the ordinary course of business;

(m) indemnification obligations, earnout or similar obligations, or Guarantees, surety bonds or performance bonds securing the performance of the Borrower or any of its Subsidiaries, in each case incurred or assumed in connection with a Permitted Acquisition or disposition or other acquisition of assets permitted hereunder;

(n) Indebtedness of the Borrower or any of its Subsidiaries in respect of performance bonds, bid bonds, appeal bonds, surety bonds and similar obligations, in each case provided in the ordinary course of business, including guarantees or obligations with respect to letters of credit supporting such performance bonds, bid bonds, appeal bonds, surety bonds and similar obligations;

(o) Indebtedness arising from the honoring by a bank or other financial institution of a check, draft or similar instrument drawn against insufficient funds in the ordinary course of business or otherwise in respect of any netting services, overdrafts and related liabilities arising from treasury, depository and cash management services or in connection with any automated clearing-house transfers of funds;

(p) Indebtedness in respect to judgments or awards under circumstances not giving rise to an Event of Default;

(q) Indebtedness in respect of obligations that are being contested in accordance with Section 5.04;

(r) Indebtedness consisting of (i) deferred payments or financing of insurance premiums incurred in the ordinary course of business of the Borrower or any of its Subsidiaries and (ii) take or pay obligations contained in any supply agreement entered into in the ordinary course of business; and

(s) Indebtedness expressly permitted under Section 6.04;

(t) Indebtedness representing deferred compensation, severance, pension, and health and welfare retirement benefits or the equivalent to current and former employees of the Borrower and its Subsidiaries incurred in the ordinary course of business or existing on the Effective Date;

(u) other Indebtedness in an aggregate principal amount not exceeding the greater of (i) \$10,000,000 and (ii) three percent (3%) of Consolidated Total Assets (determined by reference to Consolidated Total Assets as of the last day of the most recently ended fiscal quarter of the **Company Borrower** for which financial statements have been delivered (or, if prior to the date of the delivery of the first financial statements to be delivered pursuant to Section 5.01(a) or (b), the most recent financial statements referred to in Section 3.04(a))) at any time outstanding.

SECTION 1.02. Liens. The Borrower will not, and will not permit any Subsidiary to, create, incur, assume or permit to exist any Lien on any property or asset now owned or hereafter acquired by it except:

- (a) Liens created pursuant to any Loan Document including with respect to any obligation to provide cash collateral;
- (b) Permitted Encumbrances;

(a) any Lien on any property or asset of the Borrower or any Subsidiary existing on the Effective Date and set forth in Schedule 6.02 and any amendments, modifications, extensions, renewals, refinancings and replacements thereof; provided that (i) such Lien shall not apply to any other property or asset of the Borrower or any Subsidiary other than improvements thereon and proceeds from the disposition of such property or asset and (ii) the amount secured or benefited thereby is not increased (other than as permitted by Section 6.01) and amendments, modifications, extensions, refinancings, renewals and replacements thereof that do not increase the outstanding principal amount thereof (other than as permitted by Section 6.01);

(b) any Lien existing on any property or asset prior to the acquisition thereof by the Borrower or any Subsidiary or existing on any property or asset of any Person that becomes a Subsidiary after the Effective Date prior to the time such Person becomes a Subsidiary and any amendments, modifications, extensions, renewals and replacements thereof; provided that (i) such Lien is not created in contemplation of or in connection with such acquisition or such Person becoming a Subsidiary, as the case may be, (ii) such Lien shall not apply to any other property or assets of the Borrower or any Subsidiary (other than the proceeds or products thereof and other than after-acquired property subjected to a Lien securing Indebtedness and other obligations incurred prior to such time and which Indebtedness and other obligations are permitted hereunder that require, pursuant to their terms at such time, a pledge of after-acquired property) and (iii) such Lien shall secure only those obligations which it secures on the date of such acquisition or the date such Person becomes a Subsidiary, as the case may be, and amendments, modifications, extensions, refinancings, renewals and replacements thereof that do not increase the outstanding principal amount thereof (other than as permitted by Section 6.01);

(c) Liens on fixed or capital assets (including capital leases) acquired (including as a replacement), constructed, repaired, leased or improved by the Borrower or any Subsidiary; provided that (i) such Liens secure Indebtedness or Capital Lease Obligations permitted by clause (e) of Section 6.01, (ii) such Liens and the Indebtedness secured thereby are incurred prior to or within 180 days after such acquisition or lease or the completion of such construction, replacement, repair or improvement (other than with respect to amendments, modifications, extensions, refinancings, renewals and replacements thereof) and (iii) such Liens shall not apply to any other property or assets of the Borrower or any Subsidiary other than improvements thereon, replacements and products thereof, additions and accessions thereto or proceeds from the disposition of such property or assets and customary security deposits; provided that individual financings of equipment provided by one lender (or a syndicate of lenders) may be cross-collateralized to other financings of equipment provided by such lender (or syndicate);

(d) Liens granted by a Subsidiary that is not a Loan Party in favor of the Borrower or another Loan Party in respect of Indebtedness owed by such Subsidiary to the Borrower or such other Loan Party;

(e) Liens arising out of any conditional sale, title retention, consignment or other similar arrangements for the sale of goods entered into by the Borrower or any of its Subsidiaries the ordinary course of business;

- (f) Liens securing Indebtedness permitted hereunder to finance insurance premiums solely to the extent of such premiums;

(g) statutory and common law rights of setoff and other Liens, similar rights and remedies arising as a matter of law encumbering deposits of cash, securities, commodities and other funds

in favor of banks, financial institutions, other depository institutions, securities or commodities intermediaries or brokerage, and Liens of a collecting bank arising under Section 4-208 or 4-210 of the UCC in effect in the relevant jurisdiction or any similar law of any foreign jurisdiction on items in the course of collection;

(h) Liens in favor of customs and revenue authorities arising as a matter of law to secure payment of customs duties in connection with the importation of goods in the ordinary course of business;

(i) Liens on any cash earnest money deposits made by the Borrower or any of its Subsidiaries in connection with any Acquisition permitted by this Agreement, including, without limitation, in connection with any letter of intent or purchase agreement relating thereto;

(j) in connection with the sale or transfer of any assets in a transaction permitted under Section 6.03, customary rights and restrictions contained in agreements relating to such sale or transfer pending the completion thereof;

(k) Liens in the nature of the right of setoff in favor of counterparties to contractual agreements with the Loan Parties (i) in the ordinary course of business or (ii) otherwise permitted hereunder other than in connection with Indebtedness;

(l) dispositions and other sales of assets permitted under Section 6.04;

(m) to the extent constituting a Lien, Liens with respect to repurchase obligations of the type described in clause (d) of the definition of "Permitted Investments";

(n) Liens in favor of a credit card or debit card processor arising in the ordinary course of business under any processor agreement and relating solely to the amounts paid or payable thereunder, or customary deposits on reserve held by such credit card or debit card processor;

(o) Liens that are contractual rights of set-off (i) relating to the establishment of depository relations with banks or other financial institutions not given in connection with the issuance of Indebtedness, or (ii) relating to pooled deposit or sweep accounts of any Loan Party or any Subsidiary to permit satisfaction of overdraft or similar obligations incurred in the ordinary course of business of the any such Loan Party or Subsidiary;

(p) Liens of sellers of goods to any Loan Party and any of their respective Subsidiaries arising under Article II of the UCC or similar provisions of applicable law in the ordinary course of business, covering only the goods sold and securing only the unpaid purchase price for such goods and related expenses; and

(q) Liens on assets of the Borrower and its Subsidiaries not otherwise permitted above so long as the aggregate principal amount of the Indebtedness and other obligations subject to such Liens does not at any time exceed \$10,000,000.

SECTION 1.03. Fundamental Changes. The Borrower will not, and will not permit any Subsidiary to, merge into or consolidate with any other Person, or permit any other Person to merge into or consolidate with it, or otherwise Dispose of all or substantially all of its assets, or all or substantially all of the Equity Interests of any of its Subsidiaries (in each case, whether now owned or hereafter acquired), or liquidate or dissolve, except that:

(i) if at the time thereof and immediately after giving effect thereto no Event of Default shall have occurred and be continuing, any Person (other than the Borrower or any of its Subsidiaries) may merge or consolidate with the Borrower or any of its Subsidiaries; provided that any such merger or consolidation involving (A) the Borrower must result in the Borrower as the surviving entity and (B) a Subsidiary Guarantor must result in such Subsidiary Guarantor as the surviving entity;

(ii) any Subsidiary may merge into or consolidate with a Loan Party in a transaction in which the surviving entity is such Loan Party (provided that any such merger involving the Borrower must result in the Borrower as the surviving entity);

(iii) any Subsidiary that is not a Loan Party may merge into or consolidate with another Subsidiary that is not a Loan Party;

(iv) the Borrower and its Subsidiaries may sell, transfer, lease, license or otherwise dispose of any, all or substantially all of its assets (in connection with a liquidation, winding up or dissolution or otherwise) to (A) the Borrower or a Subsidiary Guarantor or (B) other than with respect to any of the foregoing actions by the Borrower or any Subsidiary Guarantor, to any other Loan Party;

(v) the Borrower and its Subsidiaries may sell, transfer, lease or otherwise dispose of any Subsidiary that is not a Loan Party (and, in connection with a liquidation, winding up or dissolution or otherwise, any Subsidiary that is not a Loan Party may sell, transfer, lease, license or otherwise dispose of any, all or substantially all of its assets) to another Subsidiary that is not a Loan Party;

(vi) Dispositions permitted by Section 6.04;

(vii) any Subsidiary that is not a Loan Party may liquidate, wind up or dissolve if the Borrower determines in good faith that such liquidation, winding up or dissolution is in the best interests of the Borrower and is not materially disadvantageous to the Lenders;

(viii) any Subsidiary may liquidate, wind up or dissolve if its assets are transferred to the Borrower or any Subsidiary Guarantor or, if such Subsidiary is not a Subsidiary Guarantor, to any other Subsidiary;

provided that any such merger or consolidation involving a Person that is not a wholly-owned Subsidiary immediately prior to such merger or consolidation shall not be permitted unless it is also permitted by Section 6.05.

(b) The Borrower will not, and will not permit any of its Subsidiaries to, engage to any material extent in any business substantially different from businesses of the type conducted by the Borrower and its Subsidiaries (taken as a whole) on the Effective Date and businesses reasonably related, ancillary, similar, complementary or synergistic thereto or reasonable extensions, development or expansion thereof.

(c) The Borrower will not, nor will it permit any of its Subsidiaries to, change its fiscal year from the basis in effect on the Effective Date.

SECTION 1.04. Dispositions. The Borrower will not, and will not permit any Subsidiary to, make any Disposition, except:

(a) Dispositions of obsolete, worn out or surplus property in the ordinary course of business;

(b) Dispositions of cash, inventory and Permitted Investments in the ordinary course of business;

(c) Dispositions of equipment or real property to the extent that (i) such property is exchanged for credit against the purchase price of similar replacement property or (ii) the proceeds of such Disposition are reasonably promptly applied to the purchase price of such replacement property;

(d) Dispositions of property by any Loan Party to any other Loan Party;

(e) leases, licenses, subleases or sublicenses (including the provision of open source software under an open source license) granted in the ordinary course of business and on ordinary commercial terms that do not interfere in any material respect with the business of the Borrower and its Subsidiaries;

(f) Dispositions of intellectual property rights that are no longer used or useful in the business of the Borrower and its Subsidiaries;

(g) the discount, write-off or Disposition of accounts receivable overdue by more than ninety days, in each case in the ordinary course of business;

(h) Dispositions of non-core assets acquired in a Permitted Acquisition; provided that such Dispositions shall be consummated within 360 days of such Permitted Acquisition; provided, further, that (i) the consideration received for such assets shall be in an amount at least equal to the fair market value thereof (determined in good faith by the board of directors of the Borrower) and (ii) no less than 75% thereof shall be paid in cash;

(i) Restricted Payments permitted by Section 6.08 and Investments permitted by Section 6.05;

(j) Dispositions set forth in Schedule 6.04 pursuant to transactions described therein; and

(k) Dispositions by the Borrower and its Subsidiaries not otherwise permitted under this Section; provided that the aggregate book value of all property Disposed of pursuant to this clause (j) in any fiscal year of the Borrower shall not exceed the greater of (i) \$10,000,000 and (ii) three percent (3%) of Consolidated Total Assets (determined by reference to Consolidated Total Assets as of the last day of the most recently ended fiscal quarter of the **Company Borrower** for which financial statements have been delivered (or, if prior to the date of the delivery of the first financial statements to be delivered pursuant to Section 5.01(a) or (b), the most recent financial statements referred to in Section 3.04(a))).

SECTION 1.05. Investments, Loans, Advances, Guarantees and Acquisitions. The Borrower will not, and will not permit any of its Subsidiaries to, (i) purchase, hold or acquire (including pursuant to any merger or consolidation with any Person that was not a wholly owned Subsidiary prior to such merger or consolidation) any capital stock, evidences of indebtedness or other securities (including any option, warrant or other similar right to acquire any of the foregoing) of, make or permit to exist any loans or advances to, Guarantee any obligations of, or make or permit to exist any investment or any other beneficial interest in, any other Person or (ii) purchase or otherwise acquire (in one transaction or a series of transactions) any Person or all or substantially all of the assets of any Persons or any assets of any other Person constituting a business unit, division, product line (including rights in respect of any drug or other pharmaceutical product) or line of business of such Person (each of the foregoing transactions described in the foregoing clauses (i) and (ii), an "Investment"), except:

(a) cash and Permitted Investments;

(b) Permitted Acquisitions;

(c) (i) Investments by the Borrower and its Subsidiaries existing on the Effective Date in the capital stock of their respective Subsidiaries, (ii) Investments by the Borrower and its Subsidiaries in a Subsidiary Guarantor and (iii) Investments by any Person existing on the date such Person becomes a Subsidiary or consolidates or merges with the Borrower or any of its Subsidiaries pursuant to a transaction otherwise permitted hereunder;

(d) Investments (including, without limitation, capital contributions) made by the Borrower in or to any Subsidiary and made by any Subsidiary in or to the Borrower or any other Subsidiary; provided that not more than an aggregate amount of the greater of (i) \$10,000,000 and (ii) three percent (3%) of Consolidated Total Assets (determined by reference to Consolidated Total Assets as of the last day of the most recently ended fiscal quarter of the **Company Borrower** for which financial

statements have been delivered (or, if prior to the date of the delivery of the first financial statements to be delivered pursuant to Section 5.01(a) or (b), the most recent financial statements referred to in Section 3.04(a)) in Investments and capital contributions may be made after the Effective Date under this clause (d) and remain outstanding, at any time, by the Borrower and the Subsidiary Guarantors in Subsidiaries which are not Subsidiary Guarantors;

(e) Investments constituting deposits described in clauses (c) and (d) of the definition of “Permitted Encumbrances”;

(f) Guarantees constituting Indebtedness permitted by Section 6.01(d);

(g) Investments comprised of notes payable, stock or other securities issued by account debtors to the Borrower or any of its Subsidiaries pursuant to negotiated agreements with respect to settlement of such account debtor’s accounts in the ordinary course of business or Investments otherwise received in settlement of obligations owed by any financially troubled account debtors or other debtors in connection with such Person’s reorganization or in bankruptcy, insolvency or similar proceedings or in connection with foreclosure on or transfer of title with respect to any secured Investment;

(h) extensions of trade credit or the holding of receivables in the ordinary course of business;

(i) the purchase, redemption, retirement, acquisition, cancellation or termination of any Equity Interests of the Borrower or any option, warrant or other right to acquire any such Equity Interests in the Borrower, in each case to the extent the payment therefore is permitted under Section 6.08;

(j) loans and advances to officers, directors and employees for moving, payroll, entertainment, travel and other similar expenses in the ordinary course of business not to exceed \$5,000,000 in the aggregate at any time outstanding;

(k) endorsements for collection or deposit and prepaid expenses made in the ordinary course of business;

(l) transactions (to the extent constituting Investments) or promissory notes and other non-cash consideration received in connection with Dispositions permitted by Section 6.04;

(m) Investments constituting the creation of new Subsidiaries so long as the Borrower or such Subsidiary complies with Section 5.09 hereof and any Investment in such new Subsidiary is otherwise permitted under this Section 6.05;

(n) Guarantees of leases and other contractual obligations of any Subsidiary (to the extent not constituting Indebtedness) in the ordinary course of business;

(o) transfers of rights with respect to one or more products or technologies under development to joint ventures with third parties or to other entities where the Borrower or a Subsidiary retains rights to acquire such joint ventures or other entities or otherwise repurchase such products or technologies; and

(p) Investments in the form of Swap Agreements permitted by Section 6.06;

(q) Investments in existence on the Effective Date and described in Schedule 6.05 and any modification, replacement, renewal or extension thereof to the extent not involving any additional Investment;

(r) other Investments (other than Acquisitions), loans or advances made by the Borrower or any of its Subsidiaries in an aggregate amount not to exceed the greater of (i) \$10,000,000

and (ii) three percent (3%) of Consolidated Total Assets (determined by reference to Consolidated Total Assets as of the last day of the most recently ended fiscal quarter of the **Company Borrower** for which financial statements have been delivered (or, if prior to the date of the delivery of the first financial statements to be delivered pursuant to Section 5.01(a) or (b), the most recent financial statements referred to in Section 3.04(a)) at any time outstanding.

For purposes of covenant compliance with this Section 6.05, the amount of any Investment shall be the amount actually invested, without adjustment for subsequent increases or decreases in the value of such Investment, less any amount paid, repaid, returned, distributed or otherwise received in cash in respect of such Investment.

SECTION 1.06. Swap Agreements. The Borrower will not, and will not permit any of its Subsidiaries to, enter into any Swap Agreement, except (a) Swap Agreements entered into to hedge or mitigate risks to which the Borrower or any Subsidiary has actual exposure (other than those in respect of Equity Interests of the Borrower or any of its Subsidiaries), and (b) Swap Agreements entered into in order to effectively cap, collar or exchange interest rates (from fixed to floating rates, from one floating rate to another floating rate or otherwise) with respect to any interest-bearing liability or investment of the Borrower or any Subsidiary.

SECTION 1.07. Transactions with Affiliates. The Borrower will not, and will not permit any of its Subsidiaries to, sell, lease or otherwise transfer any property or assets to, or purchase, lease or otherwise acquire any property or assets from, or otherwise engage in any other transactions with, any of its Affiliates, except (a) transactions on terms and conditions not materially less favorable to the Borrower or such Subsidiary than could be obtained on an arm's-length basis from a Person that is not an Affiliate for a comparable transaction, (b) transactions between or among the Borrower and its Subsidiaries (or an entity that becomes a Subsidiary of the Borrower as a result of such transaction) (or any combination thereof), (c) the payment of customary fees to directors of the Borrower or any of its Subsidiaries, and customary compensation, reasonable out-of-pocket expense reimbursement and indemnification (including the provision of directors and officers insurance) of, and other employment agreements and arrangements, employee benefit plans and stock incentive plans paid to, future, present or past directors, officers, managers and employees of the Borrower or any of its Subsidiaries, (d) transactions undertaken in good faith for the purpose of improving the consolidated tax efficiency of the Borrower and its Subsidiaries, (e) loans, advances and other transactions to the extent permitted by the terms of this Agreement, including without limitation any Restricted Payment permitted by Section 6.08 and transactions permitted by Section 6.03, (f) issuances of Equity Interests to Affiliates and the registration rights associated therewith, (g) transactions with Affiliates as set forth on Schedule 6.07 (together with any amendments, restatements, extensions, replacements or other modifications thereto that are not materially adverse to the interests of the Lenders in their capacities as such), (h) any license, sublicense, lease or sublease (i) in existence on the Effective Date (together with any amendments, restatements, extensions, replacements or other modifications thereto that are not materially adverse to the interests of the Lenders in their capacities as such), (ii) in the ordinary course of business or (iii) substantially consistent with past practices, (i) transactions with joint ventures for the purchase or sale of property or other assets and services entered into in the ordinary course of business and Investments permitted by Section 6.05 in joint ventures, and (j) any transactions or series of related transactions with respect to which the aggregate consideration paid, or fair market value of property sold or disposed of, by the Borrower and its Subsidiaries is less than \$1,000,000.

SECTION 1.08. Restricted Payments. The Borrower will not, and will not permit any of its Subsidiaries to, declare or make, or agree to pay or make, directly or indirectly, any Restricted Payment, except:

(a) the Borrower may declare and pay dividends or make other Restricted Payments with respect to its Equity Interests payable solely in additional Equity Interests;

(b) Subsidiaries may (i) make dividends or other distributions to their respective equityholders with respect to their Equity Interests (which distributions shall be (x) made on at least a ratable basis to any such equityholders that are Loan Parties and (y) in the case of a Subsidiary that is not a wholly-owned Subsidiary, made on at least a ratable basis to any such equityholders that are the

Borrower or a Subsidiary), (ii) make other Restricted Payments to the Borrower or any Subsidiary Guarantor (either directly or indirectly through one or more Subsidiaries that are not Loan Parties) and (iii) make any Restricted Payments that the Borrower would have otherwise been permitted to make pursuant to this Section 6.08;

(c) the Borrower may make Restricted Payments pursuant to and in accordance with stock option plans or other benefit plans for management or employees of the Borrower and its Subsidiaries;

(d) the Borrower may repurchase Equity Interests upon the exercise of stock options or warrants if such Equity Interests represent a portion of the exercise price of such options or warrants or with the proceeds received from the substantially concurrent issue of new Equity Interests;

(e) the Borrower and its Subsidiaries may make any other Restricted Payment so long as no Default or Event of Default has occurred and is continuing prior to making such Restricted Payment or would arise after giving effect (including giving effect on a pro forma basis) thereto and the aggregate amount of all such Restricted Payments during any twelve month period does not exceed \$10,000,000.

Notwithstanding the foregoing, and for the avoidance of doubt, (i) the conversion by holders of (including any cash payment upon conversion), or required payment of any principal or premium on, or required payment of any interest with respect to, any Permitted Convertible Indebtedness, in each case, in accordance with the terms of the indenture governing such Permitted Convertible Indebtedness, shall not constitute a Restricted Payment; provided that, to the extent both (a) the aggregate amount of cash payable upon conversion or payment of any Permitted Convertible Indebtedness (excluding any required payment of interest with respect to such Permitted Convertible Indebtedness and excluding any payment of cash in lieu of a fractional share due upon conversion thereof) exceeds the aggregate principal amount thereof and (b) such conversion or payment does not trigger or correspond to an exercise or early unwind or settlement of a corresponding portion of the Permitted Bond Hedge Transactions relating to such Permitted Convertible Indebtedness (including, for the avoidance of doubt, the case where there is no Permitted Bond Hedge Transaction relating to such Permitted Convertible Indebtedness), the payment of such excess cash shall constitute a Restricted Payment notwithstanding this clause (i); and (ii) any required payment with respect to, or required early unwind or settlement of, any Permitted Bond Hedge Transaction or Permitted Warrant Transaction, in each case, in accordance with the terms of the agreement governing such Permitted Bond Hedge Transaction or Permitted Warrant Transaction shall not constitute a Restricted Payment; provided that, to the extent cash is required to be paid under a Permitted Warrant Transaction as a result of the election of “cash settlement” (or substantially equivalent term) as the “settlement method” (or substantially equivalent term) thereunder by Borrower (or its Affiliate) (including in connection with the exercise and/or early unwind or settlement thereof), the payment of such cash shall constitute a Restricted Payment notwithstanding this clause (ii).

Notwithstanding the foregoing, Borrower may repurchase, exchange or induce the conversion of Permitted Convertible Indebtedness by delivery of shares of Borrower’s common stock and/or a different series of Permitted Convertible Indebtedness (which series (x) matures after, and does not require any scheduled amortization or other scheduled payments of principal prior to, the analogous date under the indenture governing the Permitted Convertible Indebtedness that is so repurchased, exchanged or converted and (y) has terms, conditions and covenants that are no less favorable to Borrower than the Permitted Convertible Indebtedness that is so repurchased, exchanged or converted (as determined by the board of directors of Borrower, or a committee thereof, in good faith)) (any such series of Permitted Convertible Indebtedness, “Refinancing Convertible Notes”) and/or by payment of cash (in an amount that does not exceed the proceeds received by the **Company Borrower** from the substantially concurrent issuance of shares of Borrower’s common stock and/or Refinancing Convertible Notes plus the net cash proceeds, if any, received by the **Company Borrower** pursuant to the related exercise or early unwind or termination of the related Permitted Bond Hedge Transactions and Permitted Warrant Transactions, if any, pursuant to the immediately following proviso); provided that, substantially concurrently with, or a commercially reasonable period of time before or after, the related settlement date for the Permitted Convertible Indebtedness that are so repurchased, exchanged or converted, Borrower shall (and, for the avoidance of doubt, shall be permitted under this Section 6.08 to) exercise or unwind or terminate early

(whether in cash, shares or any combination thereof) the portion of the Permitted Bond Hedge Transactions and Permitted Warrant Transactions, if any, corresponding to such Permitted Convertible Indebtedness that are so repurchased, exchanged or converted.

SECTION 1.09. Restrictive Agreements. The Borrower will not, and will not permit any of its Subsidiaries to, directly or indirectly, enter into, incur or permit to exist any agreement or other arrangement that prohibits, restricts or imposes any condition upon (a) the ability of the Borrower or any Subsidiary to create, incur or permit to exist any Lien upon any of its property or assets to secure the Secured Obligations (to the extent required by the Loan Documents), or (b) the ability of any Subsidiary to pay dividends or other distributions with respect to holders of its Equity Interests or to make or repay loans or advances to the Borrower or any other Subsidiary, to the extent required by the Loan Documents, to Guarantee the Secured Obligations; provided that that (i) this Section 6.09 shall not apply to (A) restrictions and conditions imposed by law or by any Loan Document, (B) restrictions and conditions existing on the Effective Date identified on Schedule 6.09 and any amendment, modification, refinancing, replacement, renewal or extension thereof that does not materially expand the scope of any such restriction or condition taken as a whole, (C) restrictions and conditions imposed on any Subsidiary or asset by any agreements in existence at the time such Subsidiary became a Subsidiary or such asset was acquired and any amendment, modification, refinancing, replacement, renewal or extension thereof that does not materially expand the scope of any such restriction or condition taken as a whole; provided that such restrictions and conditions apply only to such Subsidiary or asset, (D) customary restrictions and conditions contained in agreements relating to the sale of a Subsidiary pending such sale; provided that such restrictions and conditions apply only to the Subsidiary that is to be sold, (E) customary restrictions and conditions contained in any agreement relating to the disposition of any property pending the consummation of such disposition, (F) restrictions in the transfers of assets encumbered by a Lien permitted by Section 6.02, (G) restrictions or conditions set forth in any agreement governing Indebtedness permitted by Section 6.01; provided that such restrictions and conditions are customary for such Indebtedness as determined in the good faith judgment of the board of directors of the Borrower, (H) customary provisions restricting assignment of any agreement entered into in the ordinary course of business and (I) customary restrictions on cash or other deposits (including escrowed funds) or net worth imposed under contracts; provided that such restrictions and conditions apply only to such Subsidiary and to any Equity Interests in such Subsidiary, (ii) clause (a) of this Section 6.09 shall not apply to restrictions or conditions imposed by any agreement relating to secured Indebtedness permitted by this Agreement if such restrictions or conditions apply only to the property or assets securing such Indebtedness, (iii) clause (a) of this Section 6.09 shall not apply to customary provisions in leases and other contracts restricting the assignment thereof and (iv) this Section 6.09 shall not apply to customary restrictions and conditions with respect to joint ventures.

SECTION 1.10. Subordinated Indebtedness and Amendments to Subordinated Indebtedness Documents. The Borrower will not, and will not permit any Subsidiary to, directly or indirectly voluntarily prepay, defease or in substance defease, purchase, redeem, retire or otherwise acquire, any Subordinated Indebtedness or any Indebtedness from time to time outstanding under the Subordinated Indebtedness Documents (other than pursuant to any refinancings, renewals or replacements of such Indebtedness to the extent permitted by Section 6.01). Furthermore, the Borrower will not, and will not permit any Subsidiary to, amend the Subordinated Indebtedness Documents or any document, agreement or instrument evidencing any Indebtedness incurred pursuant to the Subordinated Indebtedness Documents (or any replacements, substitutions, extensions or renewals thereof) or pursuant to which such Indebtedness is issued where such amendment, modification or supplement provides for the following or which has any of the following effects, in any such case, other than as permitted by Section 6.01(j):

- (a) increases the overall principal amount of any such Indebtedness (except through payments-in-kind) or increases the amount of any single scheduled installment of principal or interest;
- (b) shortens or accelerates the date upon which any installment of principal or interest becomes due or adds any additional mandatory redemption provisions;
- (c) shortens the final maturity date of such Indebtedness or otherwise accelerates the amortization schedule with respect to such Indebtedness;

- (d) increases the rate of interest accruing on such Indebtedness;
- (e) provides for the payment of additional fees or increases existing fees;

(f) amends or modifies any financial or negative covenant (or covenant which prohibits or restricts the Borrower or any Subsidiary from taking certain actions) in a manner which is more onerous or more restrictive in any material respect to the Borrower or such Subsidiary or which is otherwise materially adverse to the Borrower, any Subsidiary and/or the Lenders or, in the case of any such covenant, which places material additional restrictions on the Borrower or such Subsidiary or which requires the Borrower or such Subsidiary to comply with more restrictive financial ratios or which requires the Borrower to better its financial performance, in each case from that set forth in the existing applicable covenants in the Subordinated Indebtedness Documents or the applicable covenants in this Agreement unless the Borrower offers, in good faith, to amend this Agreement to maintain any existing “cushions” between the terms of this Agreement and the terms of the Subordinated Indebtedness Documents as revised; or

(g) amends, modifies or adds any affirmative covenant in a manner which (i) when taken as a whole, is materially adverse to the Borrower, any Subsidiary and/or the Lenders or (ii) is more onerous than the existing applicable covenant in the Subordinated Indebtedness Documents or the applicable covenant in this Agreement unless the Borrower offers, in good faith, to amend this Agreement to maintain any existing “cushions” between the terms of this Agreement and the terms of the Subordinated Indebtedness Documents as revised.

SECTION 1.11. Sale and Leaseback Transactions. The Borrower will not, nor will it permit any Subsidiary to, enter into any Sale and Leaseback Transaction, other than Sale and Leaseback Transactions in respect of which the net cash proceeds received in connection therewith does not exceed \$10,000,000 in the aggregate during any fiscal year of the Borrower, determined on a consolidated basis for the Borrower and its Subsidiaries.

SECTION 1.12. Financial Covenants.

(a) Maximum Leverage Ratio. The Borrower will not permit the ratio (the “Leverage Ratio”), determined as of the end of each of its fiscal quarters ending on and after June 30, 2020, of (i) Consolidated Total Net Indebtedness to (ii) Consolidated EBITDA for the period of four (4) consecutive fiscal quarters ending with the end of such fiscal quarter, all calculated for the Borrower and its Subsidiaries on a consolidated basis, to be greater than 2.50 to 1.00.

(b) Minimum Fixed Charge Coverage Ratio. The Borrower will not permit the ratio (the “Fixed Charge Coverage Ratio”), determined as of the end of each of its fiscal quarters ending on and after June 30, 2020, of (i) Consolidated EBITDA to (ii) Consolidated Fixed Charges, in each case for the period of four (4) consecutive fiscal quarters ending with the end of such fiscal quarter, all calculated for the Borrower and its Subsidiaries on a consolidated basis, to be less than 1.50 to 1.00.

ARTICLE VII

Events of Default

SECTION 1.01. Events of Default. If any of the following events (“Events of Default”) shall occur:

(a) the Borrower shall fail to pay any principal of any Loan or any reimbursement obligation in respect of any LC Disbursement when and as the same shall become due and payable, whether at the due date thereof or at a date fixed for prepayment thereof or otherwise;

(b) the Borrower shall fail to pay any interest on any Loan or any fee or any other amount (other than an amount referred to in Section 7.01(a)) payable under this Agreement or any other Loan Document, when and as the same shall become due and payable, and such failure shall continue unremedied for a period of five (5) Business Days;

(c) any representation or warranty made or deemed made by or on behalf of the Borrower or any Subsidiary in or in connection with this Agreement or any other Loan Document or any amendment or modification hereof or thereof or waiver hereunder or thereunder, or in any report, certificate, financial statement or other document furnished pursuant to or in connection with this Agreement or any other Loan Document or any amendment or modification hereof or thereof or waiver hereunder or thereunder, shall prove to have been incorrect in any material respect when made or deemed made;

(d) the Borrower shall fail to observe or perform any covenant, condition or agreement applicable to it (or its Subsidiaries, to the extent applicable) contained in Section 5.02(a), 5.03 (solely with respect to the Borrower's existence), 5.08 or 5.09, in Article VI or in Article X;

(e) the Borrower or any Subsidiary Guarantor, as applicable, shall fail to observe or perform any covenant, condition or agreement applicable to it contained in this Agreement (other than those specified in Section 7.01(a), (b) or (d)) or any other Loan Document, and such failure shall continue unremedied for a period of thirty (30) days after notice thereof from the Administrative Agent to the Borrower (which notice will be given at the request of any Lender);

(f) the Borrower or any Subsidiary shall fail to make any payment (whether of principal or interest and regardless of amount) in respect of any Material Indebtedness of the Borrower or such Subsidiary, as applicable, when and as the same shall become due and payable, which is not cured within any applicable grace period provided for in the applicable agreement or instrument under which such Indebtedness was created;

(g) any event or condition occurs that results in any Material Indebtedness becoming due prior to its scheduled maturity or that enables or permits, after the expiration of any applicable grace period, and delivery of any applicable required notice, provided in the applicable agreement or instrument under which such Indebtedness was created, the holder or holders of such Material Indebtedness or any trustee or agent on its or their behalf to cause such Material Indebtedness to become due, or to require the prepayment, repurchase, redemption or defeasance thereof, prior to its scheduled maturity; provided that this clause (g) shall not apply to (i) secured Indebtedness that becomes due as a result of the sale, transfer or other disposition (including as a result of a casualty or condemnation event) of the property or assets securing such Indebtedness (to the extent such sale, transfer or other disposition is not prohibited under this Agreement), (ii) any Material Indebtedness that becomes due as a result of a refinancing thereof permitted by Section 6.01, (iii) any reimbursement obligation in respect of a letter of credit, bankers acceptance or similar obligation as a result of a drawing thereunder by a beneficiary thereunder in accordance with its terms, (iv) any such Material Indebtedness that is mandatorily prepayable prior to the scheduled maturity thereof with the proceeds of the issuance of capital stock, the incurrence of other Indebtedness or the sale or other disposition of any assets, so long as such Material Indebtedness that has become due is so prepaid in full with such net proceeds required to be used to prepay such Material Indebtedness when due (or within any applicable grace period) and such event shall not have otherwise resulted in an event of default with respect to such Material Indebtedness or (v) any redemption, exchange, repurchase, conversion or settlement with respect to any Permitted Convertible Indebtedness, or satisfaction of any condition giving rise to or permitting the foregoing, pursuant to their terms unless such redemption, repurchase, conversion or settlement results from a default thereunder or an event of the type that constitutes an Event of Default;

(h) an involuntary proceeding shall be commenced or an involuntary petition shall be filed seeking (i) liquidation, reorganization or other relief in respect of the Borrower or any Material Subsidiary or its debts, or of a substantial part of its assets, under any federal, state or foreign bankruptcy, insolvency, receivership or similar law now or hereafter in effect or (ii) the appointment of a receiver, trustee, custodian, sequestrator, conservator or similar official for the Borrower or any Material Subsidiary or for a substantial part of its assets, and, in any such case, such proceeding or petition shall continue undismissed for sixty (60) days or an order or decree approving or ordering any of the foregoing shall be entered;

(i) the Borrower or any Material Subsidiary shall (i) voluntarily commence any proceeding or file any petition seeking liquidation, reorganization or other relief under any Federal, state

or foreign bankruptcy, insolvency, receivership or similar law now or hereafter in effect, (ii) consent to the institution of, or fail to contest in a timely and appropriate manner, any proceeding or petition described in Section 7.01(h), (iii) apply for or consent to the appointment of a receiver, trustee, custodian, sequestrator, conservator or similar official for the Borrower or any Material Subsidiary or for a substantial part of its assets, (iv) file an answer admitting the material allegations of a petition filed against it in any such proceeding, (v) make a general assignment for the benefit of creditors or (vi) take any action for the purpose of effecting any of the foregoing;

(j) the Borrower or any Material Subsidiary shall become unable, admit in writing its inability or fail generally to pay its debts as they become due;

(k) one or more judgments for the payment of money in an aggregate amount in excess of \$10,000,000 (to the extent not paid, fully bonded or covered by a solvent and unaffiliated insurer that has not denied coverage) shall be rendered against the Borrower, any Subsidiary or any combination thereof and the same shall remain undischarged, unvacated or undismissed for a period of sixty (60) consecutive days during which execution shall not be effectively stayed (by reason of pending appeal or otherwise), or any action shall be legally taken by a judgment creditor to attach or levy upon any assets of the Borrower or any Subsidiary to enforce any such judgment and such action shall not have been stayed;

(l) an ERISA Event shall have occurred that, in the opinion of the Required Lenders, when taken together with all other ERISA Events that have occurred, could reasonably be expected to result in a Material Adverse Effect;

(m) a Change in Control shall occur;

(n) the occurrence of any "default", as defined in any Loan Document (other than this Agreement) or the breach of any of the terms or provisions of any Loan Document (other than this Agreement), which default or breach continues beyond any period of grace therein provided;

(o) any material provision of any Loan Document, at any time after its execution and delivery and for any reason other than as expressly permitted hereunder or thereunder or satisfaction in full of all Secured Obligations, ceases to be in full force and effect; or a Loan Party contests in writing the validity or enforceability of any provision of any Loan Document; or a Loan Party denies in writing that it has any or further liability or obligation under any Loan Document, or purports in writing to revoke, terminate or rescind any Loan Document; or

(p) any Collateral Document, after execution thereof, shall for any reason fail to create a valid and perfected security interest in any material portion of the Collateral purported to be covered thereby, except (i) as permitted by the terms of any Loan Document or (ii) ~~as a result of gross negligence or willful misconduct of to the extent any loss of perfection or priority results solely from (A)~~ the Administrative Agent ~~so long as not resulting from the breach or non-compliance with any Loan Document by any Loan Party no longer having possession of certificates actually delivered to it representing Equity Interests pledged under any Collateral Document or (B) a UCC filing having lapsed because a UCC continuation statement was not filed in a timely manner.~~ so long as not resulting from the breach or non-compliance with any Loan Document by any Loan Party no longer having possession of certificates actually delivered to it representing Equity Interests pledged under any Collateral Document or (B) a UCC filing having lapsed because a UCC continuation statement was not filed in a timely manner.

SECTION 1.02. Remedies Upon an Event of Default. If an Event of Default occurs (other than an event with respect to the Borrower described in Section 7.01(h) or 7.01(i)), and at any time thereafter during the continuance of such Event of Default, the Administrative Agent may with the consent of the Required Lenders, and shall at the request of the Required Lenders, by notice to the Borrower, take any or all of the following actions, at the same or different times:

(a) terminate the Commitments, and thereupon the Commitments shall terminate immediately;

(b) declare the Loans then outstanding to be due and payable in whole (or in part, in which case any principal not so declared to be due and payable may thereafter be declared to be due and payable), and thereupon the principal of the Loans so declared to be due and payable, together with

accrued interest thereon and all fees and other Secured Obligations of the Borrower accrued hereunder and under any other Loan Document, shall become due and payable immediately, without presentment, demand, protest or other notice of any kind, all of which are hereby waived by the Borrower;

(c) require that the Borrower provide cash collateral as required in Section 2.06(j); and

(d) exercise on behalf of itself, the Lenders and the Issuing Bank all rights and remedies available to it, the Lenders and the Issuing Bank under the Loan Documents and applicable law.

If an Event of Default described in Section 7.01(h) or 7.01(i) occurs with respect to the Borrower, the Commitments shall automatically terminate and the principal of the Loans then outstanding and cash collateral for the LC Exposure, together with accrued interest thereon and all fees and other Secured Obligations accrued hereunder and under any other Loan Document, shall automatically become due and payable, and the obligation of the Borrower to cash collateralize the LC Exposure as provided in clause (c) above shall automatically become effective, in each case, without presentment, demand, protest or other notice of any kind, all of which are hereby waived by the Borrower.

In addition to any other rights and remedies granted to the Administrative Agent and the Lenders in the Loan Documents, the Administrative Agent on behalf of the Lenders may exercise all rights and remedies of a secured party under the UCC or any other applicable law. Without limiting the generality of the foregoing, the Administrative Agent, without demand of performance or other demand, presentment, protest, advertisement or notice of any kind (except any notice required by law referred to below) to or upon any Loan Party or any other Person (all and each of which demands, defenses, advertisements and notices are hereby waived by the Borrower on behalf of itself and its Subsidiaries), may in such circumstances forthwith collect, receive, appropriate and realize upon the Collateral, or any part thereof, or consent to the use by any Loan Party of any cash collateral arising in respect of the Collateral on such terms as the Administrative Agent deems reasonable, and/or may forthwith sell, lease, assign give an option or options to purchase or otherwise dispose of and deliver, or acquire by credit bid on behalf of the Secured Parties, the Collateral or any part thereof (or contract to do any of the foregoing), in one or more parcels at public or private sale or sales, at any exchange, broker's board or office of the Administrative Agent or any Lender or elsewhere, upon such terms and conditions as it may deem advisable and at such prices as it may deem best, for cash or on credit or for future delivery, all without assumption of any credit risk. The Administrative Agent or any Lender shall have the right upon any such public sale or sales, and, to the extent permitted by law, upon any such private sale or sales, to purchase the whole or any part of the Collateral so sold, free of any right or equity of redemption in any Loan Party, which right or equity is hereby waived and released by the Borrower on behalf of itself and its Subsidiaries. The Borrower further agrees on behalf of itself and its Subsidiaries, at the Administrative Agent's request, to assemble the Collateral and make it available to the Administrative Agent at places which the Administrative Agent shall reasonably select, whether at the premises of the Borrower, another Loan Party or elsewhere. The Administrative Agent shall apply the net proceeds of any action taken by it pursuant to this Article VII, after deducting all reasonable costs and expenses of every kind incurred in connection therewith or incidental to the care or safekeeping of any of the Collateral or in any other way relating to the Collateral or the rights of the Administrative Agent and the Lenders hereunder, including reasonable attorneys' fees and disbursements, to the payment in whole or in part of the Secured Obligations, in such order as the Administrative Agent may elect, and only after such application and after the payment by the Administrative Agent of any other amount required by any provision of law, including Section 9-615(a)(3) of the New York Uniform Commercial Code, need the Administrative Agent account for the surplus, if any, to any Loan Party. To the extent permitted by applicable law, the Borrower on behalf of itself and its Subsidiaries waives all Liabilities it may acquire against the Administrative Agent or any Lender arising out of the exercise by them of any rights hereunder. If any notice of a proposed sale or other disposition of Collateral shall be required by law, such notice shall be deemed reasonable and proper if given at least 10 days before such sale or other disposition.

SECTION 1.03. Application of Payments. Notwithstanding anything herein to the contrary, following the occurrence and during the continuance of an Event of Default, and notice thereof to the Administrative Agent by the Borrower or the Required Lenders:

(a) all payments received on account of the Secured Obligations shall, subject to Section 2.22, be applied by the Administrative Agent as follows:

(i) first, to payment of that portion of the Secured Obligations constituting fees, indemnities, expenses and other amounts payable to the Administrative Agent (including fees and disbursements and other charges of counsel to the Administrative Agent payable under Section 9.03 and amounts pursuant to Section 2.12(c) payable to the Administrative Agent in its capacity as such);

(ii) second, to payment of that portion of the Secured Obligations constituting fees, expenses, indemnities and other amounts (other than principal, reimbursement obligations in respect of LC Disbursements, interest and Letter of Credit fees) payable to the Lenders, the Issuing Bank and the other Secured Parties (including fees and disbursements and other charges of counsel to the Lenders and the Issuing Bank payable under Section 9.03) arising under the Loan Documents, ratably among them in proportion to the respective amounts described in this clause (ii) payable to them;

(iii) third, to payment of that portion of the Secured Obligations constituting accrued and unpaid Letter of Credit fees and charges and interest on the Loans and unreimbursed LC Disbursements, ratably among the Lenders and the Issuing Bank in proportion to the respective amounts described in this clause (iii) payable to them;

(iv) fourth, (A) to payment of that portion of the Secured Obligations constituting unpaid principal of the Loans and unreimbursed LC Disbursements, (B) to cash collateralize that portion of LC Exposure comprising the undrawn amount of Letters of Credit to the extent not otherwise cash collateralized by the Borrower pursuant to Section 2.06 or 2.22; provided that (x) any such amounts applied pursuant to subclause (B) above shall be paid to the Administrative Agent for the account of the Issuing Bank to cash collateralize Secured Obligations in respect of Letters of Credit, (y) subject to Section 2.06 or 2.22, amounts used to cash collateralize the aggregate amount of Letters of Credit pursuant to this clause (iv) shall be used to satisfy drawings under such Letters of Credit as they occur and (z) upon the expiration of any Letter of Credit (without any pending drawings), the pro rata share of cash collateral shall be distributed to the other Secured Obligations, if any, in the order set forth in this Section 7.03 and (C) to any other amounts owing with respect to Banking Services Obligations and Swap Obligations, in each case, ratably among the Lenders and the Issuing Bank and any other applicable Secured Parties in proportion to the respective amounts described in this clause (iv) payable to them;

(v) fifth, to the payment in full of all other Secured Obligations, in each case ratably among the Administrative Agent, the Lenders, the Issuing Bank and the other Secured Parties based upon the respective aggregate amounts of all such Secured Obligations owing to them in accordance with the respective amounts thereof then due and payable; and

(vi) finally, the balance, if any, after all Secured Obligations have been indefeasibly paid in full, to the Borrower or as otherwise required by law; and

(b) if any amount remains on deposit as cash collateral after all Letters of Credit have either been fully drawn or expired (without any pending drawings), such remaining amount shall be applied to the other Secured Obligations, if any, in the order set forth above.

ARTICLE VIII

The Administrative Agent

SECTION 1.01. Authorization and Action.

(a) Each Lender and the Issuing Bank hereby irrevocably appoints the entity named as Administrative Agent in the heading of this Agreement and its successors and assigns to serve as the

administrative agent and collateral agent under the Loan Documents and each Lender and the Issuing Bank authorizes the Administrative Agent to take such actions as agent on its behalf and to exercise such powers under this Agreement and the other Loan Documents as are delegated to the Administrative Agent under such agreements and to exercise such powers as are reasonably incidental thereto. Further, each of the Lenders and the Issuing Bank, on behalf of itself and any of its Affiliates that are Secured Parties, hereby irrevocably empower and authorize JPMorgan Chase Bank, N.A. (in its capacity as Administrative Agent) to execute and deliver the Collateral Documents and all related documents or instruments as shall be necessary or appropriate to effect the purposes of the Collateral Documents. In addition, to the extent required under the laws of any jurisdiction other than within the United States, each Lender and the Issuing Bank hereby grants to the Administrative Agent any required powers of attorney to execute and enforce any Collateral Document governed by the laws of such jurisdiction on such Lender's or the Issuing Bank's behalf. Without limiting the foregoing, each Lender and the Issuing Bank hereby authorizes the Administrative Agent to execute and deliver, and to perform its obligations under, each of the Loan Documents to which the Administrative Agent is a party, and to exercise all rights, powers and remedies that the Administrative Agent may have under such Loan Documents.

(b) As to any matters not expressly provided for herein and in the other Loan Documents (including enforcement or collection), the Administrative Agent shall not be required to exercise any discretion or take any action, but shall be required to act or to refrain from acting (and shall be fully protected in so acting or refraining from acting) upon the written instructions of the Required Lenders (or such other number or percentage of the Lenders as shall be necessary, pursuant to the terms in the Loan Documents), and, unless and until revoked in writing, such instructions shall be binding upon each Lender and the Issuing Bank; provided, however, that the Administrative Agent shall not be required to take any action that (i) the Administrative Agent in good faith believes exposes it to liability unless the Administrative Agent receives an indemnification and is exculpated in a manner satisfactory to it from the Lenders and the Issuing Bank with respect to such action or (ii) is contrary to this Agreement or any other Loan Document or applicable law, including any action that may be in violation of the automatic stay under any requirement of law relating to bankruptcy, insolvency or reorganization or relief of debtors or that may effect a forfeiture, modification or termination of property of a Defaulting Lender in violation of any requirement of law relating to bankruptcy, insolvency or reorganization or relief of debtors; provided, further, that the Administrative Agent may seek clarification or direction from the Required Lenders prior to the exercise of any such instructed action and may refrain from acting until such clarification or direction has been provided. Except as expressly set forth in the Loan Documents, the Administrative Agent shall not have any duty to disclose, and shall not be liable for the failure to disclose, any information relating to the Borrower, any Subsidiary or any Affiliate of any of the foregoing that is communicated to or obtained by the Person serving as Administrative Agent or any of its Affiliates in any capacity. Nothing in this Agreement shall require the Administrative Agent to expend or risk its own funds or otherwise incur any financial liability in the performance of any of its duties hereunder or in the exercise of any of its rights or powers if it shall have reasonable grounds for believing that repayment of such funds or adequate indemnity against such risk or liability is not reasonably assured to it.

(c) In performing its functions and duties hereunder and under the other Loan Documents, the Administrative Agent is acting solely on behalf of the Lenders and the Issuing Bank (except in limited circumstances expressly provided for herein relating to the maintenance of the Register), and its duties are entirely mechanical and administrative in nature. Without limiting the generality of the foregoing:

(i) the Administrative Agent does not assume and shall not be deemed to have assumed any obligation or duty or any other relationship as the agent, fiduciary or trustee of or for any Lender, the Issuing Bank or any other Secured Party other than as expressly set forth herein and in the other Loan Documents, regardless of whether a Default or an Event of Default has occurred and is continuing (and it is understood and agreed that the use of the term "agent" (or any similar term) herein or in any other Loan Document with reference to the Administrative Agent is not intended to connote any fiduciary duty or other implied (or express) obligations arising under agency doctrine of any applicable law, and that such term is used as a matter of market custom and is intended to create or reflect only an administrative relationship between contracting parties); additionally, each Lender agrees that it will not assert any claim against the Administrative Agent based on an alleged breach of fiduciary duty by the

Administrative Agent in connection with this Agreement and/or the transactions contemplated hereby;

(ii) where the Administrative Agent is required or deemed to act as a trustee in respect of any Collateral over which a security interest has been created pursuant to a Loan Document expressed to be governed by the laws of any jurisdiction other than the United States of America, or is required or deemed to hold any Collateral "on trust" pursuant to the foregoing, the obligations and liabilities of the Administrative Agent to the Secured Parties in its capacity as trustee shall be excluded to the fullest extent permitted by applicable law; and

(iii) nothing in this Agreement or any Loan Document shall require the Administrative Agent to account to any Lender for any sum or the profit element of any sum received by the Administrative Agent for its own account.

(d) The Administrative Agent may perform any of its duties and exercise its rights and powers hereunder or under any other Loan Document by or through any one or more sub-agents appointed by the Administrative Agent. The Administrative Agent and any such sub-agent may perform any of their respective duties and exercise their respective rights and powers through their respective Related Parties. The exculpatory provisions of this Article shall apply to any such sub-agent and to the Related Parties of the Administrative Agent and any such sub-agent, and shall apply to their respective activities pursuant to this Agreement. The Administrative Agent shall not be responsible for the negligence or misconduct of any sub-agent except to the extent that a court of competent jurisdiction determines in a final and nonappealable judgment that the Administrative Agent acted with gross negligence or willful misconduct in the selection of such sub-agent.

(e) No Arranger shall have obligations or duties whatsoever in such capacity under this Agreement or any other Loan Document and shall incur no liability hereunder or thereunder in such capacity, but all such persons shall have the benefit of the indemnities provided for hereunder.

(f) In case of the pendency of any proceeding with respect to any Loan Party under any federal, state or foreign bankruptcy, insolvency, receivership or similar law now or hereafter in effect, the Administrative Agent (irrespective of whether the principal of any Loan or any reimbursement obligation in respect of any LC Disbursement shall then be due and payable as herein expressed or by declaration or otherwise and irrespective of whether the Administrative Agent shall have made any demand on any Loan Party) shall be entitled and empowered (but not obligated) by intervention in such proceeding or otherwise:

(i) to file and prove a claim for the whole amount of the principal and interest owing and unpaid in respect of the Loans, LC Disbursements and all other Obligations that are owing and unpaid and to file such other documents as may be necessary or advisable in order to have the claims of the Lenders, the Issuing Bank and the Administrative Agent (including any claim under Sections 2.12, 2.13, 2.15, 2.17 and 9.03) allowed in such judicial proceeding; and

(ii) to collect and receive any monies or other property payable or deliverable on any such claims and to distribute the same;

and any custodian, receiver, assignee, trustee, liquidator, sequestrator or other similar official in any such proceeding is hereby authorized by each Lender, the Issuing Bank and each other Secured Party to make such payments to the Administrative Agent and, in the event that the Administrative Agent shall consent to the making of such payments directly to the Lenders, the Issuing Bank or the other Secured Parties, to pay to the Administrative Agent any amount due to it, in its capacity as the Administrative Agent, under the Loan Documents (including under Section 9.03). Nothing contained herein shall be deemed to authorize the Administrative Agent to authorize or consent to or accept or adopt on behalf of any Lender or the Issuing Bank any plan of reorganization, arrangement, adjustment or composition affecting the Secured Obligations or the rights of any Lender or the Issuing Bank or to authorize the Administrative Agent to vote in respect of the claim of any Lender or the Issuing Bank in any such proceeding.

(g) The provisions of this Article VIII are solely for the benefit of the Administrative Agent, the Lenders and the Issuing Bank, and, except solely to the extent of the Borrower's rights to consent pursuant to and subject to the conditions set forth in this Article VIII, none of the Borrower or any Subsidiary, or any of their respective Affiliates, shall have any rights as a third party beneficiary under any such provisions. Each Secured Party, whether or not a party hereto, will be deemed, by its acceptance of the benefits of the Collateral and of the Guarantees of the Secured Obligations provided under the Loan Documents, to have agreed to the provisions of this Article VIII.

SECTION 1.02. Administrative Agent's Reliance, Limitation of Liability, Etc.

(a) None of the Administrative Agent, the Arranger or any Related Party of any of the foregoing Persons shall be (i) liable to any Lender for any action taken or omitted to be taken by such party, the Administrative Agent, the Arranger or any Related Party of any of the foregoing Persons under or in connection with this Agreement or the other Loan Documents (x) with the consent of or at the request of the Required Lenders (or such other number or percentage of the Lenders as shall be necessary, or as the Administrative Agent shall believe in good faith to be necessary, under the circumstances as provided in the Loan Documents) or (y) in the absence of its own gross negligence or willful misconduct (such absence to be presumed unless otherwise determined by a court of competent jurisdiction by a final and non-appealable judgment) or (ii) responsible in any manner to any of the Lenders for any recitals, statements, representations or warranties made by any Loan Party or any officer thereof contained in this Agreement or any other Loan Document or in any certificate, report, statement or other document referred to or provided for in, or received by the Administrative Agent under or in connection with, this Agreement or any other Loan Document or for the value, validity, effectiveness, genuineness, enforceability or sufficiency of this Agreement or any other Loan Document (including, for the avoidance of doubt, in connection with the Administrative Agent's reliance on any Electronic Signature transmitted by telecopy, emailed pdf. or any other electronic means that reproduces an image of an actual executed signature page) or for any failure of any Loan Party to perform its obligations hereunder or thereunder.

(b) The Administrative Agent shall be deemed not to have knowledge of any (i) notice of any of the events or circumstances set forth or described in Section 5.02 unless and until written notice thereof stating that it is a "notice under Section 5.02" in respect of this Agreement and identifying the specific clause under said Section is given to the Administrative Agent by the Borrower or (ii) notice of any Default or Event of Default unless and until written notice thereof (stating that it is a "notice of Default" or a "notice of an Event of Default") is given to the Administrative Agent by the Borrower, a Lender or the Issuing Bank, and the Administrative Agent shall not be responsible for or have any duty to ascertain or inquire into (i) any statement, warranty or representation made in or in connection with any Loan Document, (ii) the contents of any certificate, report or other document delivered thereunder or in connection therewith, (iii) the performance or observance of any of the covenants, agreements or other terms or conditions set forth in any Loan Document or the occurrence of any Default or Event of Default, (iv) the sufficiency, validity, enforceability, effectiveness or genuineness of any Loan Document or any other agreement, instrument or document, (v) the satisfaction of any condition set forth in Article IV or elsewhere in any Loan Document, other than to confirm receipt of items (which on their face purport to be such items) expressly required to be delivered to the Administrative Agent or satisfaction of any condition that expressly refers to the matters described therein being acceptable or satisfactory to the Administrative Agent or (vi) the creation, perfection or priority of Liens on the Collateral. Notwithstanding anything herein to the contrary, the Administrative Agent shall not be liable for, or be responsible for any Liabilities, costs or expenses suffered by the Borrower, any Subsidiary, any Lender or the Issuing Bank as a result of, any determination of the Revolving Credit Exposure, any of the component amounts thereof or any portion thereof attributable to each Lender or the Issuing Bank or any Dollar Amount ~~or Foreign-Currency Amount~~ thereof.

(c) Without limiting the foregoing, the Administrative Agent (i) may treat the payee of any promissory note as its holder until such promissory note has been assigned in accordance with Section 9.04, (ii) may rely on the Register to the extent set forth in Section 9.04(b), (iii) may consult with legal counsel (including counsel to the Borrower), independent public accountants and other experts selected by it, and shall not be liable for any action taken or omitted to be taken in good faith by it in accordance with the advice of such counsel, accountants or experts, (iv) makes no warranty or representation to any Lender or the Issuing Bank and shall not be responsible to any Lender or the Issuing

Bank for any statements, warranties or representations made by or on behalf of any Loan Party in connection with this Agreement or any other Loan Document, (v) in determining compliance with any condition hereunder to the making of a Loan, or the issuance of a Letter of Credit, that by its terms must be fulfilled to the satisfaction of a Lender or the Issuing Bank, may presume that such condition is satisfactory to such Lender or the Issuing Bank unless the Administrative Agent shall have received notice to the contrary from such Lender or the Issuing Bank sufficiently in advance of the making of such Loan or the issuance of such Letter of Credit and (vi) shall be entitled to rely on, and shall incur no liability under or in respect of this Agreement or any other Loan Document by acting upon, any notice, consent, certificate or other instrument or writing (which writing may be a fax, any electronic message, Internet or intranet website posting or other distribution) or any statement made to it orally or by telephone and believed by it to be genuine and signed or sent or otherwise authenticated by the proper party or parties (whether or not such Person in fact meets the requirements set forth in the Loan Documents for being the maker thereof).

SECTION 1.03. Posting of Communications.

(a) The Borrower agrees that the Administrative Agent may, but shall not be obligated to, make any Communications available to the Lenders and the Issuing Bank by posting the Communications on IntraLinks™, DebtDomain, SyndTrak, ClearPar or any other electronic platform chosen by the Administrative Agent to be its electronic transmission system (the “Approved Electronic Platform”).

(b) Although the Approved Electronic Platform and its primary web portal are secured with generally-applicable security procedures and policies implemented or modified by the Administrative Agent from time to time (including, as of the Effective Date, a user ID/password authorization system) and the Approved Electronic Platform is secured through a per-deal authorization method whereby each user may access the Approved Electronic Platform only on a deal-by-deal basis, each of the Lenders, the Issuing Bank and the Borrower acknowledges and agrees that the distribution of material through an electronic medium is not necessarily secure, that the Administrative Agent is not responsible for approving or vetting the representatives or contacts of any Lender that are added to the Approved Electronic Platform, and that there may be confidentiality and other risks associated with such distribution. Each of the Lenders, the Issuing Bank and the Borrower hereby approves distribution of the Communications through the Approved Electronic Platform and understands and assumes the risks of such distribution.

(c) THE APPROVED ELECTRONIC PLATFORM AND THE COMMUNICATIONS ARE PROVIDED “AS IS” AND “AS AVAILABLE”. THE APPLICABLE PARTIES (AS DEFINED BELOW) DO NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE COMMUNICATIONS, OR THE ADEQUACY OF THE APPROVED ELECTRONIC PLATFORM AND EXPRESSLY DISCLAIM LIABILITY FOR ERRORS OR OMISSIONS IN THE APPROVED ELECTRONIC PLATFORM AND THE COMMUNICATIONS. NO WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF THIRD PARTY RIGHTS OR FREEDOM FROM VIRUSES OR OTHER CODE DEFECTS, IS MADE BY THE APPLICABLE PARTIES IN CONNECTION WITH THE COMMUNICATIONS OR THE APPROVED ELECTRONIC PLATFORM. IN NO EVENT SHALL THE ADMINISTRATIVE AGENT, ANY ARRANGER OR ANY OF THEIR RESPECTIVE RELATED PARTIES (COLLECTIVELY, “APPLICABLE PARTIES”) HAVE ANY LIABILITY TO ANY LOAN PARTY, ANY LENDER, THE ISSUING BANK OR ANY OTHER PERSON OR ENTITY FOR DAMAGES OF ANY KIND, INCLUDING DIRECT OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSSES OR EXPENSES (WHETHER IN TORT, CONTRACT OR OTHERWISE) ARISING OUT OF ANY LOAN PARTY’S OR THE ADMINISTRATIVE AGENT’S TRANSMISSION OF COMMUNICATIONS THROUGH THE INTERNET OR THE APPROVED ELECTRONIC PLATFORM.

(d) Each Lender and the Issuing Bank agrees that notice to it (as provided in the next sentence) specifying that Communications have been posted to the Approved Electronic Platform shall constitute effective delivery of the Communications to such Lender for purposes of the Loan Documents.

Each Lender and the Issuing Bank agrees (i) to notify the Administrative Agent in writing (which could be in the form of electronic communication) from time to time of such Lender's or the Issuing Bank's (as applicable) email address to which the foregoing notice may be sent by electronic transmission and (ii) that the foregoing notice may be sent to such email address.

(e) Each of the Lenders, the Issuing Bank and the Borrower agrees that the Administrative Agent may, but (except as may be required by applicable law) shall not be obligated to, store the Communications on the Approved Electronic Platform in accordance with the Administrative Agent's generally applicable document retention procedures and policies.

(f) Nothing herein shall prejudice the right of the Administrative Agent, any Lender or the Issuing Bank to give any notice or other communication pursuant to any Loan Document in any other manner specified in such Loan Document.

SECTION 1.04. The Administrative Agent Individually. With respect to its Commitment, Loans (including Swingline Loans) and Letters of Credit, the Person serving as the Administrative Agent shall have and may exercise the same rights and powers hereunder and is subject to the same obligations and liabilities as and to the extent set forth herein for any other Lender or Issuing Bank, as the case may be. The terms "Issuing Bank", "Lenders", "Required Lenders" and any similar terms shall, unless the context clearly otherwise indicates, include the Administrative Agent in its individual capacity as a Lender, the Issuing Bank or as one of the Required Lenders, as applicable. The Person serving as the Administrative Agent and its Affiliates may accept deposits from, lend money to, own securities of, act as the financial advisor or in any other advisory capacity for and generally engage in any kind of banking, trust or other business with, the Borrower, any Subsidiary or any Affiliate of any of the foregoing as if such Person was not acting as the Administrative Agent and without any duty to account therefor to the Lenders or the Issuing Bank.

SECTION 1.05. Successor Administrative Agent.

(a) The Administrative Agent may resign at any time by giving 30 days' prior written notice thereof to the Lenders, the Issuing Bank and the Borrower, whether or not a successor Administrative Agent has been appointed. Upon any such resignation, the Required Lenders shall have the right to appoint a successor Administrative Agent. If no successor Administrative Agent shall have been so appointed by the Required Lenders, and shall have accepted such appointment, within 30 days after the retiring Administrative Agent's giving of notice of resignation, then the retiring Administrative Agent may, on behalf of the Lenders and the Issuing Bank, appoint a successor Administrative Agent, which shall be a bank with an office in New York, New York or an Affiliate of any such bank. In either case, such appointment shall be subject to the prior written approval of the Borrower (which approval may not be unreasonably withheld and shall not be required while an Event of Default has occurred and is continuing). Upon the acceptance of any appointment as Administrative Agent by a successor Administrative Agent, such successor Administrative Agent shall succeed to, and become vested with, all the rights, powers, privileges and duties of the retiring Administrative Agent. Upon the acceptance of appointment as Administrative Agent by a successor Administrative Agent, the retiring Administrative Agent shall be discharged from its duties and obligations under this Agreement and the other Loan Documents. Prior to any retiring Administrative Agent's resignation hereunder as Administrative Agent, the retiring Administrative Agent shall take such action as may be reasonably necessary to assign to the successor Administrative Agent its rights as Administrative Agent under the Loan Documents.

(b) Notwithstanding paragraph (a) of this Section, in the event no successor Administrative Agent shall have been so appointed and shall have accepted such appointment within 30 days after the retiring Administrative Agent gives notice of its intent to resign, the retiring Administrative Agent may give notice of the effectiveness of its resignation to the Lenders, the Issuing Bank and the Borrower, whereupon, on the date of effectiveness of such resignation stated in such notice, (i) the retiring Administrative Agent shall be discharged from its duties and obligations hereunder and under the other Loan Documents; provided that, solely for purposes of maintaining any security interest granted to the Administrative Agent under any Collateral Document for the benefit of the Secured Parties, the retiring Administrative Agent shall continue to be vested with such security interest as collateral agent for the benefit of the Secured Parties, and continue to be entitled to the rights set forth in such Collateral

Document and Loan Document, and, in the case of any Collateral in the possession of the Administrative Agent, shall continue to hold such Collateral, in each case until such time as a successor Administrative Agent is appointed and accepts such appointment in accordance with this Section (it being understood and agreed that the retiring Administrative Agent shall have no duty or obligation to take any further action under any Collateral Document, including any action required to maintain the perfection of any such security interest) and (ii) the Required Lenders shall succeed to and become vested with all the rights, powers, privileges and duties of the retiring Administrative Agent; provided that (A) all payments required to be made hereunder or under any other Loan Document to the Administrative Agent for the account of any Person other than the Administrative Agent shall be made directly to such Person and (B) all notices and other communications required or contemplated to be given or made to the Administrative Agent shall directly be given or made to each Lender and the Issuing Bank. Following the effectiveness of the Administrative Agent's resignation from its capacity as such, the provisions of this Article VIII and Section 9.03, as well as any exculpatory, reimbursement and indemnification provisions set forth in any other Loan Document, shall continue in effect for the benefit of such retiring Administrative Agent, its sub-agents and their respective Related Parties in respect of any actions taken or omitted to be taken by any of them while the retiring Administrative Agent was acting as Administrative Agent and in respect of the matters referred to in the proviso under clause (i) above.

SECTION 1.06. Acknowledgements of Lenders and Issuing Bank.

(a) Each Lender and each Issuing Bank represents and warrants that (i) the Loan Documents set forth the terms of a commercial lending facility, (ii) it is engaged in making, acquiring or holding commercial loans and in providing other facilities set forth herein as may be applicable to such Lender or Issuing Bank, in each case in the ordinary course of business, and not for the purpose of purchasing, acquiring or holding any other type of financial instrument (and each Lender and each Issuing Bank agrees not to assert a claim in contravention of the foregoing), (iii) it has, independently and without reliance upon the Administrative Agent, any Arranger or any other Lender or Issuing Bank, or any of the Related Parties of any of the foregoing, and based on such documents and information as it has deemed appropriate, made its own credit analysis and decision to enter into this Agreement as a Lender, and to make, acquire or hold Loans hereunder and (iv) it is sophisticated with respect to decisions to make, acquire and/or hold commercial loans and to provide other facilities set forth herein, as may be applicable to such Lender or such Issuing Bank, and either it, or the Person exercising discretion in making its decision to make, acquire and/or hold such commercial loans or to provide such other facilities, is experienced in making, acquiring or holding such commercial loans or providing such other facilities. Each Lender also acknowledges that it will, independently and without reliance upon the Administrative Agent, any Arranger or any other Lender or Issuing Bank, or any of the Related Parties of any of the foregoing, and based on such documents and information (which may contain material, non-public information within the meaning of the United States securities laws concerning the Borrower and its Affiliates) as it shall from time to time deem appropriate, continue to make its own decisions in taking or not taking action under or based upon this Agreement, any other Loan Document or any related agreement or any document furnished hereunder or thereunder.

(b) Each Lender, by delivering its signature page to this Agreement on the Effective Date, or delivering its signature page to an Assignment and Assumption or any other Loan Document pursuant to which it shall become a Lender hereunder, shall be deemed to have acknowledged receipt of, and consented to and approved, each Loan Document and each other document required to be delivered to, or be approved by or satisfactory to, the Administrative Agent or the Lenders on the Effective Date:

(c)

(i) Each Lender hereby agrees that (x) if the Administrative Agent notifies such Lender that the Administrative Agent has determined in its sole discretion that any funds received by such Lender from the Administrative Agent or any of its Affiliates (whether as a payment, prepayment or repayment of principal, interest, fees or otherwise; individually and collectively, a "Payment") were erroneously transmitted to such Lender (whether or not known to such Lender), and demands the return of such Payment (or a portion thereof), such Lender shall promptly, but in no event later than one (1) Business Day thereafter, return to the Administrative Agent the amount of any such Payment (or

portion thereof) as to which such a demand was made in same day funds, together with interest thereon in respect of each day from and including the date such Payment (or portion thereof) was received by such Lender to the date such amount is repaid to the Administrative Agent at the greater of the NYFRB Rate and a rate determined by the Administrative Agent in accordance with banking industry rules on interbank compensation from time to time in effect, and (y) to the extent permitted by applicable law, such Lender shall not assert, and hereby waives, as to the Administrative Agent, any claim, counterclaim, defense or right of set-off or recoupment with respect to any demand, claim or counterclaim by the Administrative Agent for the return of any Payments received, including without limitation any defense based on “discharge for value” or any similar doctrine. A notice of the Administrative Agent to any Lender under this Section 8.06(c) shall be conclusive, absent manifest error.

(ii) Each Lender hereby further agrees that if it receives a Payment from the Administrative Agent or any of its Affiliates (x) that is in a different amount than, or on a different date from, that specified in a notice of payment sent by the Administrative Agent (or any of its Affiliates) with respect to such Payment (a “Payment Notice”) or (y) that was not preceded or accompanied by a Payment Notice, it shall be on notice, in each such case, that an error has been made with respect to such Payment. Each Lender agrees that, in each such case, or if it otherwise becomes aware a Payment (or portion thereof) may have been sent in error, such Lender shall promptly notify the Administrative Agent of such occurrence and, upon demand from the Administrative Agent, it shall promptly, but in no event later than one (1) Business Day thereafter, return to the Administrative Agent the amount of any such Payment (or portion thereof) as to which such a demand was made in same day funds, together with interest thereon in respect of each day from and including the date such Payment (or portion thereof) was received by such Lender to the date such amount is repaid to the Administrative Agent at the greater of the NYFRB Rate and a rate determined by the Administrative Agent in accordance with banking industry rules on interbank compensation from time to time in effect.

(iii) The Borrower and each other Loan Party hereby agrees that (x) in the event an erroneous Payment (or portion thereof) are not recovered from any Lender that has received such Payment (or portion thereof) for any reason, the Administrative Agent shall be subrogated to all the rights of such Lender with respect to such amount and (y) an erroneous Payment shall not pay, prepay, repay, discharge or otherwise satisfy any Obligations (or any other Secured Obligations) owed by the Borrower or any other Loan Party.

(d) Each party’s obligations under this Section 8.06(c) shall survive the resignation or replacement of the Administrative Agent or any transfer of rights or obligations by, or the replacement of, a Lender, the termination of the Commitments or the repayment, satisfaction or discharge of all Obligations under any Loan Document.

SECTION 1.07. Collateral Matters.

(a) Except with respect to the exercise of setoff rights in accordance with Section 9.08 or with respect to a Secured Party’s right to file a proof of claim in an insolvency proceeding, no Secured Party shall have any right individually to realize upon any of the Collateral or to enforce any Guarantee of the Secured Obligations, it being understood and agreed that all powers, rights and remedies under the Loan Documents may be exercised solely by the Administrative Agent on behalf of the Secured Parties in accordance with the terms thereof. In its capacity, the Administrative Agent is a “representative” of the Secured Parties within the meaning of the term “secured party” as defined in the UCC. In the event that any Collateral is hereafter pledged by any Person as collateral security for the Secured Obligations, the Administrative Agent is hereby authorized, and hereby granted a power of attorney, to execute and deliver on behalf of the Secured Parties any Loan Documents necessary or appropriate to grant and perfect a Lien on such Collateral in favor of the Administrative Agent on behalf of the Secured Parties. The Lenders hereby authorize the Administrative Agent, at its option and in its discretion, to release any Lien granted to or held by the Administrative Agent upon any Collateral (i) as

described in Section 9.02(d); (ii) as permitted by, but only in accordance with, the terms of the applicable Loan Document; or (iii) if approved, authorized or ratified in writing by the Required Lenders, unless such release is required to be approved by all of the Lenders hereunder. Upon request by the Administrative Agent at any time, the Lenders will confirm in writing the Administrative Agent's authority to release particular types or items of Collateral pursuant hereto. Upon any sale or transfer of assets constituting Collateral which is permitted pursuant to the terms of any Loan Document, or consented to in writing by the Required Lenders or all of the Lenders, as applicable, and upon at least five (5) Business Days' prior written request by the Borrower to the Administrative Agent, the Administrative Agent shall (and is hereby irrevocably authorized by the Lenders to) execute such documents as may be necessary to evidence the release of the Liens granted to the Administrative Agent for the benefit of the Secured Parties herein or pursuant hereto upon the Collateral that was sold or transferred; provided, however, that (i) the Administrative Agent shall not be required to execute any such document on terms which, in the Administrative Agent's reasonable opinion, would expose the Administrative Agent to liability or create any obligation or entail any consequence other than the release of such Liens without recourse or warranty, and (ii) such release shall not in any manner discharge, affect or impair the Secured Obligations or any Liens upon (or obligations of the Loan Parties in respect of) all interests retained by any Loan Party, including (without limitation) the proceeds of the sale, all of which shall continue to constitute part of the Collateral.

(b) In furtherance of the foregoing and not in limitation thereof, no Banking Services Agreement or Swap Agreement will create (or be deemed to create) in favor of any Secured Party that is a party thereto any rights in connection with the management or release of any Collateral or of the obligations of any Loan Party under any Loan Document. By accepting the benefits of the Collateral, each Secured Party that is a party to any such Banking Services Agreement or Swap Agreement, as applicable, shall be deemed to have appointed the Administrative Agent to serve as administrative agent and collateral agent under the Loan Documents and agreed to be bound by the Loan Documents as a Secured Party thereunder, subject to the limitations set forth in this paragraph.

(c) The Secured Parties irrevocably authorize the Administrative Agent, at its option and in its discretion, to subordinate any Lien on any property granted to or held by the Administrative Agent under any Loan Document to the holder of any Lien on such property that is permitted by Section 6.02(b). The Administrative Agent shall not be responsible for or have a duty to ascertain or inquire into any representation or warranty regarding the existence, value or collectability of the Collateral, the existence, priority or perfection of the Administrative Agent's Lien thereon or any certificate prepared by any Loan Party in connection therewith, nor shall the Administrative Agent be responsible or liable to the Lenders or any other Secured Party for any failure to monitor or maintain any portion of the Collateral.

SECTION 1.08. Credit Bidding. The Secured Parties hereby irrevocably authorize the Administrative Agent, at the direction of the Required Lenders, to credit bid all or any portion of the Secured Obligations (including by accepting some or all of the Collateral in satisfaction of some or all of the Secured Obligations pursuant to a deed in lieu of foreclosure or otherwise) and in such manner purchase (either directly or through one or more acquisition vehicles) all or any portion of the Collateral (a) at any sale thereof conducted under the provisions of the Bankruptcy Code, including under Sections 363, 1123 or 1129 of the Bankruptcy Code, or any similar laws in any other jurisdictions to which a Loan Party is subject, or (b) at any other sale, foreclosure or acceptance of collateral in lieu of debt conducted by (or with the consent or at the direction of) the Administrative Agent (whether by judicial action or otherwise) in accordance with any applicable law. In connection with any such credit bid and purchase, the Secured Obligations owed to the Secured Parties shall be entitled to be, and shall be, credit bid by the Administrative Agent at the direction of the Required Lenders on a ratable basis (with Secured Obligations with respect to contingent or unliquidated claims receiving contingent interests in the acquired assets on a ratable basis that shall vest upon the liquidation of such claims in an amount proportional to the liquidated portion of the contingent claim amount used in allocating the contingent interests) for the asset or assets so purchased (or for the equity interests or debt instruments of the acquisition vehicle or vehicles that are issued in connection with such purchase). In connection with any such bid, (i) the Administrative Agent shall be authorized to form one or more acquisition vehicles and to assign any successful credit bid to such acquisition vehicle or vehicles, (ii) each of the Secured Parties' ratable interests in the Secured Obligations which were credit bid shall be deemed without any further action under this Agreement to be assigned to such vehicle or vehicles for the purpose of closing such

sale, (iii) the Administrative Agent shall be authorized to adopt documents providing for the governance of the acquisition vehicle or vehicles (provided that any actions by the Administrative Agent with respect to such acquisition vehicle or vehicles, including any disposition of the assets or equity interests thereof, shall be governed, directly or indirectly, by, and the governing documents shall provide for, control by the vote of the Required Lenders or their permitted assignees under the terms of this Agreement or the governing documents of the applicable acquisition vehicle or vehicles, as the case may be, irrespective of the termination of this Agreement and without giving effect to the limitations on actions by the Required Lenders contained in Section 9.02 of this Agreement), (iv) the Administrative Agent on behalf of such acquisition vehicle or vehicles shall be authorized to issue to each of the Secured Parties, ratably on account of the relevant Secured Obligations which were credit bid, interests, whether as equity, partnership interests, limited partnership interests or membership interests, in any such acquisition vehicle and/or debt instruments issued by such acquisition vehicle, all without the need for any Secured Party or acquisition vehicle to take any further action, and (v) to the extent that Secured Obligations that are assigned to an acquisition vehicle are not used to acquire Collateral for any reason (as a result of another bid being higher or better, because the amount of Secured Obligations assigned to the acquisition vehicle exceeds the amount of Secured Obligations credit bid by the acquisition vehicle or otherwise), such Secured Obligations shall automatically be reassigned to the Secured Parties pro rata with their original interest in such Secured Obligations and the equity interests and/or debt instruments issued by any acquisition vehicle on account of such Secured Obligations shall automatically be cancelled, without the need for any Secured Party or any acquisition vehicle to take any further action. Notwithstanding that the ratable portion of the Secured Obligations of each Secured Party are deemed assigned to the acquisition vehicle or vehicles as set forth in clause (ii) above, each Secured Party shall execute such documents and provide such information regarding the Secured Party (and/or any designee of the Secured Party which will receive interests in or debt instruments issued by such acquisition vehicle) as the Administrative Agent may reasonably request in connection with the formation of any acquisition vehicle, the formulation or submission of any credit bid or the consummation of the transactions contemplated by such credit bid.

SECTION 1.09. Certain ERISA Matters.

(a) Each Lender (x) represents and warrants, as of the date such Person became a Lender party hereto, to, and (y) covenants, from the date such Person became a Lender party hereto to the date such Person ceases being a Lender party hereto, for the benefit of, the Administrative Agent, and the Arrangers and their respective Affiliates, and not, for the avoidance of doubt, to or for the benefit of the Borrower or any other Loan Party, that at least one of the following is and will be true:

(i) such Lender is not using “plan assets” (within the meaning of the Plan Asset Regulations) of one or more Benefit Plans in connection with the Loans, the Letters of Credit or the Commitments,

(ii) the transaction exemption set forth in one or more PTEs, such as PTE 84-14 (a class exemption for certain transactions determined by independent qualified professional asset managers), PTE 95-60 (a class exemption for certain transactions involving insurance company general accounts), PTE 90-1 (a class exemption for certain transactions involving insurance company pooled separate accounts), PTE 91-38 (a class exemption for certain transactions involving bank collective investment funds) or PTE 96-23 (a class exemption for certain transactions determined by in-house asset managers), is applicable with respect to such Lender’s entrance into, participation in, administration of and performance of the Loans, the Letters of Credit, the Commitments and this Agreement,

(iii) (A) such Lender is an investment fund managed by a “Qualified Professional Asset Manager” (within the meaning of Part VI of PTE 84-14), (B) such Qualified Professional Asset Manager made the investment decision on behalf of such Lender to enter into, participate in, administer and perform the Loans, the Letters of Credit, the Commitments and this Agreement, (C) the entrance into, participation in, administration of and performance of the Loans, the Letters of Credit, the Commitments and this Agreement satisfies the requirements of sub-sections (b) through (g) of Part I of PTE 84-14 and (D) to the best knowledge of such Lender, the requirements of subsection (a) of Part I of PTE 84-14 are satisfied with respect to such

Lender's entrance into, participation in, administration of and performance of the Loans, the Letters of Credit, the Commitments and this Agreement, or

(iv) such other representation, warranty and covenant as may be agreed in writing between the Administrative Agent, in its sole discretion, and such Lender.

(b) In addition, unless sub-clause (i) in the immediately preceding clause (a) is true with respect to a Lender or such Lender has provided another representation, warranty and covenant as provided in sub-clause (iv) in the immediately preceding clause (a), such Lender further (x) represents and warrants, as of the date such Person became a Lender party hereto, to, and (y) covenants, from the date such Person became a Lender party hereto to the date such Person ceases being a Lender party hereto, for the benefit of, the Administrative Agent, and the Arranger or any of their respective Affiliates, and not, for the avoidance of doubt, to or for the benefit of the Borrower or any other Loan Party, that none of the Administrative Agent, or the Arranger or any of their respective Affiliates is a fiduciary with respect to the Collateral or the assets of such Lender (including in connection with the reservation or exercise of any rights by the Administrative Agent under this Agreement, any Loan Document or any documents related hereto or thereto).

(c) The Administrative Agent and the Arranger hereby informs the Lenders that each such Person is not undertaking to provide investment advice, or to give advice in a fiduciary capacity, in connection with the transactions contemplated hereby, and that such Person has a financial interest in the transactions contemplated hereby in that such Person or an Affiliate thereof (i) may receive interest or other payments with respect to the Loans, the Letters of Credit, the Commitments, this Agreement and any other Loan Documents, (ii) may recognize a gain if it extended the Loans, the Letters of Credit or the Commitments for an amount less than the amount being paid for an interest in the Loans, the Letters of Credit or the Commitments by such Lender or (iii) may receive fees or other payments in connection with the transactions contemplated hereby, the Loan Documents or otherwise, including structuring fees, commitment fees, arrangement fees, facility fees, commitment fees, upfront fees, underwriting fees, ticking fees, agency fees, administrative agent fees or collateral agent fees, utilization fees, minimum usage fees, letter of credit fees, fronting fees, deal-away or alternate transaction fees, amendment fees, processing fees, term out premiums, banker's acceptance fees, breakage or other early termination fees or fees similar to the foregoing.

SECTION 1.10. Certain Foreign Pledge Matters.

(a) The Borrower, on its behalf and on behalf of its Subsidiaries, and each Lender, on its behalf and on the behalf of its affiliated Secured Parties, hereby irrevocably constitute the Administrative Agent as the holder of an irrevocable power of attorney (*fondé de pouvoir* within the meaning of Article 2692 of the Civil Code of Québec) in order to hold hypothecs and security granted by the Borrower or any Subsidiary on property pursuant to the laws of the Province of Québec to secure obligations of the Borrower or any Subsidiary under any bond, debenture or similar title of indebtedness issued by the Borrower or any Subsidiary in connection with this Agreement, and agree that the Administrative Agent may act as the bondholder and mandatary with respect to any bond, debenture or similar title of indebtedness that may be issued by the Borrower or any Subsidiary and pledged in favor of the Secured Parties in connection with this Agreement. Notwithstanding the provisions of Section 32 of the An Act respecting the special powers of legal persons (Québec), JPMorgan Chase Bank, N.A. as Administrative Agent may acquire and be the holder of any bond issued by the Borrower or any Subsidiary in connection with this Agreement (i.e., the *fondé de pouvoir* may acquire and hold the first bond issued under any deed of hypothec by the Borrower or any Subsidiary).

(b) The Administrative Agent is hereby authorized to execute and deliver any documents necessary or appropriate to create and perfect the rights of pledge for the benefit of the Secured Parties including a right of pledge with respect to the entitlements to profits, the balance left after winding up and the voting rights of the Borrower as ultimate parent of any subsidiary of the Borrower which is organized under the laws of the Netherlands and the Equity Interests of which are pledged in connection herewith (a "Dutch Pledge"). Without prejudice to the provisions of this Agreement and the other Loan Documents, the parties hereto acknowledge and agree with the creation of parallel debt obligations of the Borrower or any relevant Subsidiary as will be described in any Dutch Pledge (the

“Parallel Debt”), including that any payment received by the Administrative Agent in respect of the Parallel Debt will - conditionally upon such payment not subsequently being avoided or reduced by virtue of any provisions or enactments relating to bankruptcy, insolvency, preference, liquidation or similar laws of general application - be deemed a satisfaction of a pro rata portion of the corresponding amounts of the Secured Obligations, and any payment to the Secured Parties in satisfaction of the Secured Obligations shall - conditionally upon such payment not subsequently being avoided or reduced by virtue of any provisions or enactments relating to bankruptcy, insolvency, preference, liquidation or similar laws of general application - be deemed as satisfaction of the corresponding amount of the Parallel Debt. The parties hereto acknowledge and agree that, for purposes of a Dutch Pledge, any resignation by the Administrative Agent is not effective until its rights under the Parallel Debt are assigned to the successor Administrative Agent.

(c) The parties hereto acknowledge and agree for the purposes of taking and ensuring the continuing validity of German law governed pledges (*Pfandrechte*) with the creation of parallel debt obligations of the Borrower and its Subsidiaries as will be further described in a separate German law governed parallel debt undertaking. The Administrative Agent shall (i) hold such parallel debt undertaking as fiduciary agent (*Treuhaender*) and (ii) administer and hold as fiduciary agent (*Treuhaender*) any pledge created under a German law governed Collateral Document which is created in favor of any Secured Party or transferred to any Secured Party due to its accessory nature (*Akzessorietät*), in each case of (i) and (ii) in its own name and for the account of the Secured Parties. Each Lender, on its own behalf and on behalf of its affiliated Secured Parties, hereby authorizes the Administrative Agent to enter as its agent (*Vertreter*) in its name and on its behalf into any German law governed Collateral Document, to accept as its agent in its name and on its behalf any pledge under such Collateral Document and to agree to and execute as agent in its name and on its behalf any amendments, supplements and other alterations to any such Collateral Document and to release any such Collateral Document and any pledge created under any such Collateral Document in accordance with the provisions herein and/or the provisions in any such Collateral Document.

ARTICLE IX

Miscellaneous

SECTION 1.01. Notices. Except in the case of notices and other communications expressly permitted to be given by telephone (and subject to paragraph (b) below), all notices and other communications provided for herein shall be in writing and shall be delivered by hand or overnight courier service, mailed by certified or registered mail or sent by telecopy, as follows:

(i) if to the Borrower, to it at 1 Penumbra Place, Alameda, California 94502, Attention of Ms. Maggie Yuen, Chief Financial Officer;

(ii) if to the Administrative Agent, (A) in the case of Borrowings, to JPMorgan Chase Bank, N.A., 10 South Dearborn, Floor L2S, Chicago, Illinois 60603, Attention of Penumbra Account Manager, Telecopy No. 844-490-5663; jpm.agency.cri@jpmorgan.com, with a copy to JPMorgan Chase Bank, N.A., 3 Park Plaza, Suite 900, Irvine, California 92614, Attention of Ling Li (Telecopy No. (714) 917-4866), (B) in the case of a notification of the DQ List, to JPMDQ_Contact@jpmorgan.com, (C) for all other notices, to JPMorgan Chase Bank, N.A., 3 Park Plaza, Suite 900, Irvine, California 92614, Attention of Ling Li (Telecopy No. (714) 917-4866);

(iii) if to the Issuing Bank, to it at JPMorgan Chase Bank, N.A., 10 South Dearborn, Floor L2S, Chicago, Illinois 60603, Attention of Penumbra Account Manager, cb.trade.execution.team@chase.com with a copy to JPMorgan Chase Bank, N.A., 3 Park Plaza, Suite 900, Irvine, California 92614, Attention of Ling Li (Telecopy No. (714) 917-4866);

(iv) if to the Swingline Lender, to it at JPMorgan Chase Bank, N.A., 10 South Dearborn, Floor L2S, Chicago, Illinois 60603, Attention of Penumbra Account Manager, Telecopy No. 844-490-5663; jpm.agency.cri@jpmorgan.com, with a copy to JPMorgan Chase

Bank, N.A., 3 Park Plaza, Suite 900, Irvine, California 92614, Attention of Ling Li (Telecopy No. (714) 917-4866); and

(v) if to any other Lender, to it at its address (or telecopy number) set forth in its Administrative Questionnaire.

Notices sent by hand or overnight courier service, or mailed by certified or registered mail, shall be deemed to have been given when received; notices sent by facsimile shall be deemed to have been given when sent (except that, if not given during normal business hours for the recipient, shall be deemed to have been given at the opening of business on the next business day for the recipient). Notices delivered through Approved Electronic Platforms, to the extent provided in paragraph (b) below, shall be effective as provided in said paragraph (b).

(b) Notices and other communications to the Borrower, the Lenders and the Issuing Bank hereunder may be delivered or furnished by using Approved Electronic Platforms pursuant to procedures approved by the Administrative Agent; provided that the foregoing shall not apply to notices pursuant to Article II unless otherwise agreed by the Administrative Agent and the applicable Lender. The Administrative Agent or the Borrower may, in its discretion, agree to accept notices and other communications to it hereunder by electronic communications pursuant to procedures approved by it; provided that approval of such procedures may be limited to particular notices or communications.

(c) Unless the Administrative Agent otherwise prescribes, (i) notices and other communications sent to an e-mail address shall be deemed received upon the sender's receipt of an acknowledgement from the intended recipient (such as by the "return receipt requested" function, as available, return e-mail or other written acknowledgement), and (ii) notices or communications posted to an Internet or intranet website shall be deemed received upon the deemed receipt by the intended recipient, at its e-mail address as described in the foregoing clause (i), of notification that such notice or communication is available and identifying the website address therefor; provided that, for both clauses (i) and (ii) above, if such notice, email or other communication is not sent during the normal business hours of the recipient, such notice or communication shall be deemed to have been sent at the opening of business on the next business day for the recipient.

(d) Any party hereto may change its address or telecopy number for notices and other communications hereunder by notice to the other parties hereto.

SECTION 1.02. Waivers; Amendments. No failure or delay by the Administrative Agent, the Issuing Bank or any Lender in exercising any right or power hereunder or under any other Loan Document shall operate as a waiver thereof, nor shall any single or partial exercise of any such right or power, or any abandonment or discontinuance of steps to enforce such a right or power, preclude any other or further exercise thereof or the exercise of any other right or power. The rights and remedies of the Administrative Agent, the Issuing Bank and the Lenders hereunder and under the other Loan Documents are cumulative and are not exclusive of any rights or remedies that they would otherwise have. No waiver of any provision of this Agreement or consent to any departure by the Borrower therefrom shall in any event be effective unless the same shall be permitted by paragraph (b) of this Section, and then such waiver or consent shall be effective only in the specific instance and for the purpose for which given. Without limiting the generality of the foregoing, the making of a Loan or issuance of a Letter of Credit shall not be construed as a waiver of any Default, regardless of whether the Administrative Agent, any Lender or the Issuing Bank may have had notice or knowledge of such Default at the time.

(b) Except as provided in Section 2.20 with respect to an Incremental Term Loan Amendment or as provided in Section 2.14(b), Section 2.14(c) and Section 2.14(d), neither this Agreement nor any provision hereof may be waived, amended or modified except pursuant to an agreement or agreements in writing entered into by the Borrower and the Required Lenders or by the Borrower and the Administrative Agent with the consent of the Required Lenders; provided that no such agreement shall (i) increase the Commitment of any Lender without the written consent of such Lender, (ii) reduce the principal amount of any Loan or LC Disbursement or reduce the rate of interest thereon, or reduce any fees payable hereunder, without the written consent of each Lender directly affected thereby,

(iii) postpone the scheduled date of payment of the principal amount of any Loan or LC Disbursement, or any interest thereon, or any fees payable hereunder, or reduce the amount of, waive or excuse any such payment, or postpone the scheduled date of expiration of any Commitment, without the written consent of each Lender directly affected thereby (other than any reduction of the amount of, or any extension of the payment date for, the mandatory prepayments required under Section 2.11, in each case which shall only require the approval of the Required Lenders, (iv) change Section 2.09(c) or 2.18(b) or (d) in a manner that would alter the ratable reduction of Commitments or the pro rata sharing of payments required thereby, without the written consent of each Lender, (v) change the payment waterfall provisions of Section 2.22(b) or 7.03 without the written consent of each Lender, (vi) change any of the provisions of this Section or the definition of "Required Lenders" or any other provision hereof specifying the number or percentage of Lenders required to waive, amend or modify any rights hereunder or make any determination or grant any consent hereunder, without the written consent of each Lender (it being understood that, solely with the consent of the parties prescribed by Section 2.20 to be parties to an Incremental Term Loan Amendment, Incremental Term Loans may be included in the determination of Required Lenders on substantially the same basis as the Commitments and the Loans are included on the Effective Date), (vii) (x) release the Borrower from its obligations under Article X or (y) release all or substantially all of the Subsidiary Guarantors from their obligations under the Subsidiary Guaranty, in each case, without the written consent of each Lender, or (viii) except as provided in clause (d) of this Section or in any Collateral Document, release all or substantially all of the Collateral, without the written consent of each Lender; provided further that no such agreement shall amend, modify or otherwise affect the rights or duties of the Administrative Agent, the Issuing Bank or the Swingline Lender hereunder without the prior written consent of the Administrative Agent, the Issuing Bank or the Swingline Lender, as the case may be (it being understood that any change to Section 2.22 shall require the consent of the Administrative Agent, the Issuing Bank and the Swingline Lender); and provided further that no such agreement shall amend or modify the provisions of Section 2.06 without the prior written consent of the Administrative Agent and the Issuing Bank. Notwithstanding the foregoing, no consent with respect to any amendment, waiver or other modification of this Agreement shall be required of any Defaulting Lender, except with respect to any amendment, waiver or other modification referred to in clause (i), (ii) or (iii) of the first proviso of this paragraph and then only in the event such Defaulting Lender shall be directly affected by such amendment, waiver or other modification.

(c) Notwithstanding the foregoing, this Agreement and any other Loan Document may be amended (or amended and restated) with the written consent of the Required Lenders, the Administrative Agent and the Borrower (x) to add one or more credit facilities (in addition to the Incremental Term Loans pursuant to an Incremental Term Loan Amendment) to this Agreement and to permit extensions of credit from time to time outstanding thereunder and the accrued interest and fees in respect thereof to share ratably in the benefits of this Agreement and the other Loan Documents with the Revolving Loans, Incremental Term Loans and the accrued interest and fees in respect thereof and (y) to include appropriately the Lenders holding such credit facilities in any determination of the Required Lenders and Lenders (it being understood and agreed that any such amendment in connection with new or increases to the Commitments and/or Incremental Term Loans in accordance with Section 2.20 shall require solely the consent of the parties prescribed by such Section and shall not require the consent of the Required Lenders).

(d) The Lenders hereby irrevocably authorize the Administrative Agent, at its option and in its sole discretion, to release any Liens granted to the Administrative Agent by the Loan Parties on any Collateral (i) upon the satisfaction of the Final Release Conditions, (ii) upon the termination of all the Commitments, payment and satisfaction in full in cash of all Secured Obligations (other than Swap Obligations not yet due and payable, Banking Services Obligations not yet due and payable, Unliquidated Obligations for which no claim has been made and other Obligations expressly stated to survive such payment and termination), and the cash collateralization of all Unliquidated Obligations in a manner satisfactory to the Administrative Agent, (iii) constituting property being sold or disposed of if the Borrower certifies to the Administrative Agent that the sale or disposition is made in compliance with the terms of this Agreement (and the Administrative Agent may rely conclusively on any such certificate, without further inquiry), (iv) constituting property leased to the Borrower or any Subsidiary under a lease which has expired or been terminated in a transaction permitted under this Agreement, or (v) as required to effect any sale or other disposition of such Collateral in connection with any exercise of remedies of the Administrative Agent and the Lenders pursuant to Article VII. Any such release shall not in any

manner discharge, affect, or impair the Secured Obligations or any Liens (other than those expressly being released) upon (or obligations of the Loan Parties in respect of) all interests retained by the Loan Parties, including the proceeds of any sale, all of which shall continue to constitute part of the Collateral (except to the extent any of the foregoing constitutes Excluded Assets). In addition, each of the Lenders, on behalf of itself and any of its Affiliates that are Secured Parties, irrevocably authorizes the Administrative Agent, at its option and in its discretion, (i) to subordinate any Lien on any assets granted to or held by the Administrative Agent under any Loan Document to the holder of any Lien on such property that is permitted by Section 6.02(e) or (ii) in the event that the Borrower shall have advised the Administrative Agent that, notwithstanding the use by the Borrower of commercially reasonable efforts to obtain the consent of such holder (but without the requirement to pay any sums to obtain such consent) to permit the Administrative Agent to retain its liens (on a subordinated basis as contemplated by clause (i) above), the holder of such other Indebtedness requires, as a condition to the extension of such credit, that the Liens on such assets granted to or held by the Administrative Agent under any Loan Document be released, to release the Administrative Agent's Liens on such assets.

(e) If, in connection with any proposed amendment, waiver or consent requiring the consent of "each Lender" or "each Lender directly affected thereby," the consent of the Required Lenders is obtained, but the consent of other necessary Lenders is not obtained (any such Lender whose consent is necessary but not obtained being referred to herein as a "Non-Consenting Lender"), then the Borrower may elect to replace a Non-Consenting Lender as a Lender party to this Agreement, provided that, concurrently with such replacement, (i) another bank or other entity which is reasonably satisfactory to the Borrower and the Administrative Agent shall agree, as of such date, to purchase for cash the Loans and other Obligations due to the Non-Consenting Lender pursuant to an Assignment and Assumption and to become a Lender for all purposes under this Agreement and to assume all obligations of the Non-Consenting Lender to be terminated as of such date and to comply with the requirements of clause (b) of Section 9.04, (ii) the Borrower shall pay to such Non-Consenting Lender in same day funds on the day of such replacement (1) all interest, fees and other amounts then accrued but unpaid to such Non-Consenting Lender by the Borrower hereunder to and including the date of termination, including without limitation payments due to such Non-Consenting Lender under Sections 2.15 and 2.17, and (2) an amount, if any, equal to the payment which would have been due to such Lender on the day of such replacement under Section 2.16 had the Loans of such Non-Consenting Lender been prepaid on such date rather than sold to the replacement Lender and (iii) such Non-Consenting Lender shall have received the outstanding principal amount of its Loans and participations in LC Disbursements. Each party hereto agrees that (i) an assignment required pursuant to this paragraph may be effected pursuant to an Assignment and Assumption executed by the Borrower, the Administrative Agent and the assignee (or, to the extent applicable, an agreement incorporating an Assignment and Assumption by reference pursuant to an Approved Electronic Platform as to which the Administrative Agent and such parties are participants), and (ii) the Lender required to make such assignment need not be a party thereto in order for such assignment to be effective and shall be deemed to have consented to and be bound by the terms thereof; provided that, following the effectiveness of any such assignment, the other parties to such assignment agree to execute and deliver such documents necessary to evidence such assignment as reasonably requested by the applicable Lender, provided that any such documents shall be without recourse to or warranty by the parties thereto.

(f) Notwithstanding anything to the contrary herein the Administrative Agent may, with the consent of the Borrower or other applicable Loan Parties only, amend, modify or supplement this Agreement or any of the other Loan Documents (i) to cure any ambiguity, omission, mistake, defect or inconsistency or correct any typographical error or other manifest error in any Loan Document, (ii) to comply with local law or advice of local counsel in any jurisdiction the laws of which govern any Collateral Document or that are relevant to the creation, perfection, protection and/or priority of any Lien in favor of the Administrative Agent or (iii) to effect the granting, perfection, protection, expansion or enhancement of any security interest in any Collateral or additional property to become Collateral for the benefit of the Secured Parties.

SECTION 1.03. Expenses; Limitation of Liability; Indemnity, Etc.

(a) Expenses. The Borrower shall pay (i) all reasonable and documented out-of-pocket expenses incurred by the Administrative Agent and its Affiliates (which shall be limited, in the

case of legal fees and expenses, to the reasonable and documented fees, charges and disbursements of a single counsel for the Administrative Agent and of a single local counsel to the Administrative Agent in each relevant jurisdiction (which may include a single special counsel acting in multiple other jurisdictions) and of such other counsel retained with the prior written consent of the Borrower (such consent not to be unreasonably withheld or delayed)), in connection with the syndication and distribution (including, without limitation, via the internet or through a service such as Intralinks) of the credit facilities provided for herein, the preparation and administration of this Agreement and the other Loan Documents or any amendments, modifications or waivers of the provisions hereof or thereof (whether or not the transactions contemplated hereby or thereby shall be consummated), (ii) all reasonable and documented out-of-pocket expenses incurred by the Issuing Bank in connection with the issuance, amendment or extension of any Letter of Credit or any demand for payment thereunder and (iii) all documented out-of-pocket expenses incurred by the Administrative Agent, the Issuing Bank or any Lender (which shall be limited, in the case of legal fees and expenses, to the reasonable and documented fees, charges and disbursements of one counsel for the Administrative Agent and the Issuing Bank (and of a single local counsel to the Administrative Agent and the Issuing Bank in each relevant jurisdiction (which may include a single special counsel acting in multiple other jurisdictions) and regulatory counsel) and one counsel for all of the other Lenders (and, to the extent reasonably required by the Lenders, a single local counsel for all of the other Lenders in each relevant jurisdiction and regulatory counsel), unless a Lender or its counsel reasonably determines that it would create actual or potential conflicts of interest to not have individual counsel, in which case similarly affected Lenders may have one additional firm of counsel) in connection with the enforcement or protection of its rights in connection with this Agreement and any other Loan Document, including its rights under this Section, or in connection with the Loans made or Letters of Credit issued hereunder, including all such out-of-pocket expenses (subject to the foregoing limitations with respect to legal fees and expenses) incurred during any workout, restructuring or negotiations in respect of such Loans or Letters of Credit.

(b) Limitation of Liability. None of the Administrative Agent, the Arranger, the Swingline Lender, the Issuing Bank and any Lender, and any Related Party of any of the foregoing Persons (each such Person being called a “Lender-Related Person”) shall have any Liabilities (whether direct or indirect and whether based on contract, tort or any other theory and whether or not related to third party claims, intraparty claims, or the indemnification rights set forth in paragraph (c) below) to the Borrower, its Subsidiaries or any other Loan Party and its Subsidiaries and each Related Party of any of the foregoing for or in connection with any Covered Matter, except to the extent that such Liabilities are determined by a court of competent jurisdiction by final and nonappealable judgment to have primarily resulted from the bad faith, gross negligence or willful misconduct of such Lender-Related Person. In addition to the foregoing, to the extent permitted by applicable law (i) the Borrower and any other Loan Party shall not assert, and the Borrower and each other Loan Party hereby waives, any claim against any Lender-Related Person for any Liabilities arising from the use by others of information or other materials obtained through telecommunications, electronic or other information transmission systems (including the Internet), and (ii) no party hereto shall assert, and each such party hereby waives, any Liabilities against any other party hereto, on any theory of liability, for special, indirect, consequential or punitive damages (as opposed to direct or actual damages) arising out of, in connection with, or as a result of, this Agreement, any other Loan Document, or any agreement or instrument contemplated hereby or thereby, the Transactions, any Loan or Letter of Credit or the use of the proceeds thereof; provided that, nothing in this clause (b)(ii) shall relieve the Borrower of any obligation it may have to indemnify an Indemnitee against special, indirect, consequential or punitive damages asserted against such Indemnitee by a third party.

(c) Indemnity. The Borrower shall indemnify the Administrative Agent, the Arranger, the Swingline Lender, the Issuing Bank and each Lender, and each Related Party of any of the foregoing Persons (each such Person being called an “Indemnitee”) against, and hold each Indemnitee harmless from, any and all Liabilities and related expenses (which shall be limited, in the case of legal fees and expenses, to the reasonable and documented fees, charges and disbursements of one counsel for the Indemnitees (and of a single local counsel to the ~~Indemnitees~~Indemnitees in each relevant jurisdiction (which may include a single special counsel acting in multiple other jurisdictions) and regulatory counsel) unless an Indemnitee or its counsel reasonably determines that it would create actual or potential conflicts of interest to not have individual counsel, in which case similarly affected Indemnitees may have one additional firm of counsel (and, to the extent reasonably required by such Indemnitees, a single local

counsel for all of the such Indemnitees in each relevant jurisdiction and regulatory counsel)) incurred by or asserted against any Indemnitee arising out of, in connection with, or as a result of any Covered Matters; provided that such indemnity shall not, as to any Indemnitee, be available to the extent that such Liabilities or related expenses are determined by a court of competent jurisdiction by final and nonappealable judgment to have arisen from (i) the bad faith, gross negligence or willful misconduct of such Indemnitee, (ii) the material breach by such Indemnitee of its express obligations under this Agreement or the other Loan Documents or (iii) disputes solely between and among Indemnitees not arising from any act or omission of the Borrower or any of its Affiliates (other than claims against an Indemnitee acting in its capacity as the Administrative Agent, an Arranger, Swingline Lender or Issuing Bank under this Agreement or the other Loan Documents). This Section 9.03(c) shall not apply with respect to Taxes other than any Taxes that represent losses, claims or damages arising from any non-Tax claim.

(d) Lender Reimbursement. To the extent that the Borrower fails to pay any amount required to be paid by it under paragraph (a), (b) or (c) of this Section 9.03, each Lender severally agrees to pay to the Administrative Agent, the Issuing Bank, the Swingline Lender and each Related Party of any of the foregoing Persons (each, an "Agent-Related Person"), as the case may be, such Lender's Applicable Percentage (determined as of the time that the applicable payment is sought) of such unpaid amount (it being understood that the Borrower's failure to pay any such amount shall not relieve the Borrower of any default in the payment thereof); provided that the unreimbursed expense or Liability or related expense, as the case may be, was incurred by or asserted against such Agent-Related Person in its capacity as such.

(e) Payments. All amounts due under this Section 9.03 shall be payable not later than thirty (30) days after written demand therefor.

SECTION 1.04. Successors and Assigns. The provisions of this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns permitted hereby (including any Affiliate of the Issuing Bank that issues any Letter of Credit), except that (i) the Borrower may not assign or otherwise transfer any of its rights or obligations hereunder without the prior written consent of each Lender (and any attempted assignment or transfer by the Borrower without such consent shall be null and void) and (ii) no Lender may assign or otherwise transfer its rights or obligations hereunder except in accordance with this Section. Nothing in this Agreement, expressed or implied, shall be construed to confer upon any Person (other than the parties hereto, their respective successors and assigns permitted hereby (including any Affiliate of the Issuing Bank that issues any Letter of Credit), Participants (to the extent provided in paragraph (c) of this Section) and, to the extent expressly contemplated hereby, the Related Parties of each of the Administrative Agent, the Issuing Bank and the Lenders) any legal or equitable right, remedy or claim under or by reason of this Agreement.

(b) (i) Subject to the conditions set forth in paragraph (b)(ii) below, any Lender may assign to one or more Persons (other than an Ineligible Institution) all or a portion of its rights and obligations under this Agreement (including all or a portion of its Commitment, participations in Letters of Credit and the Loans at the time owing to it) with the prior written consent (such consent not to be unreasonably withheld, conditioned or delayed) of:

(A) the Borrower (provided that the Borrower shall be deemed to have consented to any such assignment unless it shall object thereto by written notice to the Administrative Agent within ten (10) Business Days after having received written notice thereof); provided, further, that no consent of the Borrower shall be required for an assignment to a Lender, an Affiliate of a Lender, an Approved Fund or, if an Event of Default has occurred and is continuing, any other assignee;

(B) the Administrative Agent;

(C) the Issuing Bank; and

(D) the Swingline Lender.

(ii) Assignments shall be subject to the following additional conditions:

(A) except in the case of an assignment to a Lender or an Affiliate of a Lender or an Approved Fund or an assignment of the entire remaining amount of the assigning Lender's Commitment or Loans of any Class, the amount of the Commitment or Loans of the assigning Lender subject to each such assignment (determined as of the date the Assignment and Assumption with respect to such assignment is delivered to the Administrative Agent) shall not be less than \$5,000,000 unless each of the Borrower and the Administrative Agent otherwise consent; provided that no such consent of the Borrower shall be required if an Event of Default has occurred and is continuing;

(B) each partial assignment shall be made as an assignment of a proportionate part of all the assigning Lender's rights and obligations under this Agreement; provided that this clause shall not be construed to prohibit the assignment of a proportionate part of all the assigning Lender's rights and obligations in respect of one Class of Commitments or Loans;

(C) the parties to each assignment shall execute and deliver to the Administrative Agent (x) an Assignment and Assumption or (y) to the extent applicable, an agreement incorporating an Assignment and Assumption by reference pursuant to an Approved Electronic Platform as to which the Administrative Agent and the parties to the Assignment and Assumption are participants, together with a processing and recordation fee of \$3,500, such fee to be paid by either the assigning Lender or the assignee Lender or shared between such Lenders; and

(D) the assignee, if it shall not be a Lender, shall deliver to the Administrative Agent an Administrative Questionnaire in which the assignee designates one or more credit contacts to whom all syndicate-level information (which may contain material non-public information about the Borrower and its Affiliates and their Related Parties or their respective securities) will be made available and who may receive such information in accordance with the assignee's compliance procedures and applicable laws, including federal and state securities laws.

For the purposes of this Section 9.04(b), the terms "Approved Fund" and "Ineligible Institution" have the following meanings:

"Approved Fund" means any Person (other than a natural person) that is engaged in making, purchasing, holding or investing in bank loans and similar extensions of credit in the ordinary course of its business and that is administered or managed by (a) a Lender, (b) an Affiliate of a Lender or (c) an entity or an Affiliate of an entity that administers or manages a Lender.

"Ineligible Institution" means (a) a natural person, (b) a Defaulting Lender or its Lender Parent, (c) the Borrower, any of its Subsidiaries or any of its Affiliates, (d) a company, investment vehicle or trust for, or owned and operated for the primary benefit of, a natural person or relative(s) thereof or (e) a Disqualified Institution.

(iii) Subject to acceptance and recording thereof pursuant to paragraph (b)(iv) of this Section, from and after the effective date specified in each Assignment and Assumption the assignee thereunder shall be a party hereto and, to the extent of the interest assigned by such Assignment and Assumption, have the rights and obligations (including, without limitation, the obligation to timely deliver the documentation described in Section 2.17(f) of a Lender under this Agreement, and the assigning Lender thereunder shall, to the extent of the interest assigned by such Assignment and Assumption, be released from its obligations under this Agreement (and, in the case of an Assignment and Assumption covering all of the assigning Lender's rights and obligations under this Agreement, such Lender shall cease to be a party hereto but shall continue to be entitled to the benefits of Sections 2.15, 2.16, 2.17 and 9.03). Any assignment or transfer by a Lender of rights or obligations under this Agreement that does not comply with this

Section 9.04 shall be treated for purposes of this Agreement as a sale by such Lender of a participation in such rights and obligations in accordance with paragraph (c) of this Section.

(iv) The Administrative Agent, acting for this purpose as a non-fiduciary agent of the Borrower, shall maintain at one of its offices a copy of each Assignment and Assumption delivered to it and a register for the recordation of the names and addresses of the Lenders, and the Commitment of, and principal amount (and stated interest) of the Loans and LC Disbursements owing to, each Lender pursuant to the terms hereof from time to time (the "Register"). The entries in the Register shall be conclusive (absent manifest error), and the Borrower, the Administrative Agent, the Issuing Bank and the Lenders shall treat each Person whose name is recorded in the Register pursuant to the terms hereof as a Lender hereunder for all purposes of this Agreement, notwithstanding notice to the contrary. The Register shall be available for inspection by the Borrower, the Issuing Bank and any Lender, at any reasonable time and from time to time upon reasonable prior notice.

(v) Upon its receipt of (x) a duly completed Assignment and Assumption executed by an assigning Lender and an assignee or (y) to the extent applicable, an agreement incorporating an Assignment and Assumption by reference pursuant to an Approved Electronic Platform as to which the Administrative Agent and the parties to the Assignment and Assumption are participants, the assignee's completed Administrative Questionnaire (unless the assignee shall already be a Lender hereunder), the processing and recordation fee referred to in paragraph (b) of this Section and any written consent to such assignment required by paragraph (b) of this Section, the Administrative Agent shall accept such Assignment and Assumption and record the information contained therein in the Register; provided that if either the assigning Lender or the assignee shall have failed to make any payment required to be made by it pursuant to Section 2.05(c), 2.06(d) or (e), 2.07(b), 2.18(e) or 9.03(d), the Administrative Agent shall have no obligation to accept such Assignment and Assumption and record the information therein in the Register unless and until such payment shall have been made in full, together with all accrued interest thereon. No assignment shall be effective for purposes of this Agreement unless it has been recorded in the Register as provided in this paragraph.

(c) Any Lender may, without the consent of, or notice to, the Borrower, the Administrative Agent, the Issuing Bank or the Swingline Lender, sell participations to one or more banks or other entities (a "Participant"), other than an Ineligible Institution, in all or a portion of such Lender's rights and/or obligations under this Agreement (including all or a portion of its Commitment and/or the Loans owing to it); provided that (A) such Lender's obligations under this Agreement shall remain unchanged; (B) such Lender shall remain solely responsible to the other parties hereto for the performance of such obligations; and (C) the Borrower, the Administrative Agent, the Issuing Bank and the other Lenders shall continue to deal solely and directly with such Lender in connection with such Lender's rights and obligations under this Agreement. Any agreement or instrument pursuant to which a Lender sells such a participation shall provide that such Lender shall retain the sole right to enforce this Agreement and to approve any amendment, modification or waiver of any provision of this Agreement; provided that such agreement or instrument may provide that such Lender will not, without the consent of the Participant, agree to any amendment, modification or waiver described in the first proviso to Section 9.02(b) that affects such Participant. The Borrower agrees that each Participant shall be entitled to the benefits of Sections 2.15, 2.16 and 2.17 (subject to the requirements and limitations therein, including the requirements under Section 2.17(f) (it being understood that the documentation required under Section 2.17(f) shall be delivered to the participating Lender)) to the same extent as if it were a Lender and had acquired its interest by assignment pursuant to paragraph (b) of this Section; provided that such Participant (A) agrees to be subject to the provisions of Sections 2.18 and 2.19 as if it were an assignee under paragraph (b) of this Section; and (B) shall not be entitled to receive any greater payment under Section 2.15 or 2.17, with respect to any participation, than its participating Lender would have been entitled to receive, except to the extent such entitlement to receive a greater payment results from a Change in Law that occurs after the Participant acquired the applicable participation. Each Lender that sells a participation agrees, at the Borrower's request and expense, to use reasonable efforts to cooperate with the Borrower to effectuate the provisions of Section 2.19(b) with respect to any Participant. To the extent permitted by law, each Participant also shall be entitled to the benefits of Section 9.08 as though it were a Lender; provided that such Participant agrees to be subject to Section 2.18(d) as though it were a

Lender. Each Lender that sells a participation shall, acting solely for this purpose as a non-fiduciary agent of the Borrower, maintain a register on which it enters the name and address of each Participant and the principal amounts (and stated interest) of each Participant's interest in the Loans or other obligations under the Loan Documents (the "Participant Register"); provided that no Lender shall have any obligation to disclose all or any portion of the Participant Register (including the identity of any Participant or any information relating to a Participant's interest in any Commitments, Loans, Letters of Credit or its other obligations under any Loan Document) to any Person except to the extent that such disclosure is necessary to establish that such Commitment, Loan, Letter of Credit or other obligation is in registered form under Section 5f.103-1(c) of the United States Treasury Regulations or Section 1.163-5(b) of the Proposed United States Treasury Regulations (or, in each case, any amended or successor version). The entries in the Participant Register shall be conclusive absent manifest error, and such Lender shall treat each Person whose name is recorded in the Participant Register as the owner of such participation for all purposes of this Agreement notwithstanding any notice to the contrary. For the avoidance of doubt, the Administrative Agent (in its capacity as Administrative Agent) shall have no responsibility for maintaining a Participant Register.

(d) Any Lender may at any time pledge or assign a security interest in all or any portion of its rights under this Agreement to secure obligations of such Lender, including any pledge or assignment to secure obligations to a Federal Reserve Bank, and this Section shall not apply to any such pledge or assignment of a security interest; provided that no such pledge or assignment of a security interest shall release a Lender from any of its obligations hereunder or substitute any such pledgee or assignee for such Lender as a party hereto.

(e) Disqualified Institutions.

(i) No assignment or participation shall be made to any Person that was a Disqualified Institution as of the date (the "Trade Date") on which the assigning Lender entered into a binding agreement to sell and assign or grant a participation in all or a portion of its rights and obligations under this Agreement to such Person (unless the Borrower has consented to such assignment or participation in writing in its sole and absolute discretion, in which case such Person will not be considered a Disqualified Institution for the purpose of such assignment or participation). For the avoidance of doubt, with respect to any assignee or Participant that becomes a Disqualified Institution after the applicable Trade Date (including as a result of the delivery of a written supplement to the list of "Disqualified Institutions" referred to in, the definition of "Disqualified Institution"), (x) such assignee or Participant shall not retroactively be disqualified from becoming a Lender or Participant and (y) the execution by the Borrower of an Assignment and Assumption with respect to such assignee will not by itself result in such assignee no longer being considered a Disqualified Institution. Any assignment or participation in violation of this clause (e)(i) shall not be void, but the other provisions of this clause (e) shall apply.

(ii) If any assignment or participation is made to any Disqualified Institution without the Borrower's prior written consent in violation of clause (i) above, or if any Person becomes a Disqualified Institution after the applicable Trade Date, the Borrower may, at its sole expense and effort, upon notice to the applicable Disqualified Institution and the Administrative Agent, require such Disqualified Institution to assign, without recourse (in accordance with and subject to the restrictions contained in this Section 9.04), all of its interest, rights and obligations under this Agreement to one or more Persons (other than an Ineligible Institution) at the lesser of (x) the principal amount thereof and (y) the amount that such Disqualified Institution paid to acquire such interests, rights and obligations in each case plus accrued interest, accrued fees and all other amounts (other than principal amounts) payable to it hereunder.

(iii) Notwithstanding anything to the contrary contained in this Agreement, Disqualified Institutions to whom an assignment or participation is made in violation of clause (i) above (A) will not have the right to (x) receive information, reports or other materials provided to Lenders by the Borrower, the Administrative Agent or any other Lender, (y) attend or participate in meetings attended by the Lenders and the Administrative Agent, or (z) access any electronic site established for the Lenders or confidential communications from counsel to or financial

advisors of the Administrative Agent or the Lenders and (B) (x) for purposes of any consent to any amendment, waiver or modification of, or any action under, and for the purpose of any direction to the Administrative Agent or any Lender to undertake any action (or refrain from taking any action) under this Agreement or any other Loan Document, each Disqualified Institution will be deemed to have consented in the same proportion as the Lenders that are not Disqualified Institutions consented to such matter and (y) for purposes of voting on any plan of reorganization, each Disqualified Institution party hereto hereby agrees (1) not to vote on such plan of reorganization, (2) if such Disqualified Institution does vote on such plan of reorganization notwithstanding the restriction in the foregoing clause (1), such vote will be deemed not to be in good faith and shall be “designated” pursuant to Section 1126(e) of the Bankruptcy Code (or any similar provision in any other applicable laws), and such vote shall not be counted in determining whether the applicable class has accepted or rejected such plan of reorganization in accordance with Section 1126(c) of the Bankruptcy Code (or any similar provision in any other applicable laws) and (3) not to contest any request by any party for a determination by the Bankruptcy Court (or other applicable court of competent jurisdiction) effectuating the foregoing clause (2).

(iv) The Administrative Agent shall have the right, and the Borrower hereby expressly authorizes the Administrative Agent, to (A) post the list of Disqualified Institutions provided by the Borrower and any updates thereto from time to time (collectively, the “DQ List”) on an Approved Electronic Platform, including that portion of such Platform that is designated for “public side” Lenders and/or (B) provide the DQ List to each Lender or potential Lender requesting the same.

(v) The Administrative Agent and the Lenders shall not be responsible or have any liability for, or have any duty to ascertain, inquire into, monitor or enforce, compliance with the provisions hereof relating to Disqualified Institutions. Without limiting the generality of the foregoing, neither the Administrative Agent nor any Lender shall (x) be obligated to ascertain, monitor or inquire as to whether any other Lender or Participant or prospective Lender or Participant is a Disqualified Institution or (y) have any liability with respect to or arising out of any assignment or participation of Loans, or disclosure of confidential information, by any other Person to any Disqualified Institution.

SECTION 1.05.Survival. All covenants, agreements, representations and warranties made by the Loan Parties in the Loan Documents and in the certificates or other instruments delivered in connection with or pursuant to this Agreement or any other Loan Document shall be considered to have been relied upon by the other parties hereto and shall survive the execution and delivery of the Loan Documents and the making of any Loans and issuance of any Letters of Credit, regardless of any investigation made by any such other party or on its behalf and notwithstanding that the Administrative Agent, the Issuing Bank or any Lender may have had notice or knowledge of any Default or incorrect representation or warranty at the time any credit is extended hereunder, and shall continue in full force and effect as long as the principal of or any accrued interest on any Loan or any fee or any other amount payable under this Agreement or any other Loan Document is outstanding and unpaid (except for Unliquidated Obligations) or any Letter of Credit is outstanding (unless such Letter of Credit has been cash collateralized or backstopped pursuant to arrangements reasonably satisfactory to the Administrative Agent) and so long as the Commitments have not expired or terminated. The provisions of Sections 2.15, 2.16, 2.17 and 9.03 and Article VIII shall survive and remain in full force and effect regardless of the consummation of the transactions contemplated hereby, the repayment of the Loans, the expiration or termination of the Letters of Credit and the Commitments or the termination of this Agreement or any other Loan Document or any provision hereof or thereof.

SECTION 1.06.Counterparts; Integration; Effectiveness; Electronic Execution. This Agreement may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. This Agreement, the other Loan Documents and any separate letter agreements with respect to fees payable to the Administrative Agent constitute the entire contract among the parties relating to the subject matter hereof and supersede any and all previous agreements and understandings, oral or written, relating to the subject matter hereof. Except as provided in Section 4.01, this Agreement shall become

effective when it shall have been executed by the Administrative Agent and when the Administrative Agent shall have received counterparts hereof which, when taken together, bear the signatures of each of the other parties hereto, and thereafter shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Delivery of an executed counterpart of a signature page of (x) this Agreement, (y) any other Loan Document and/or (z) any document, amendment, approval, consent, information, notice (including, for the avoidance of doubt, any notice delivered pursuant to Section 9.01), certificate, request, statement, disclosure or authorization related to this Agreement, any other Loan Document and/or the transactions contemplated hereby and/or thereby (each an "Ancillary Document") that is an Electronic Signature transmitted by telecopy, emailed pdf, or any other electronic means that reproduces an image of an actual executed signature page shall be effective as delivery of a manually executed counterpart of this Agreement, such other Loan Document or such Ancillary Document, as applicable. The words "execution," "signed," "signature," "delivery," and words of like import in or relating to this Agreement, any other Loan Document and/or any Ancillary Document shall be deemed to include Electronic Signatures, deliveries or the keeping of records in any electronic form (including deliveries by telecopy, emailed pdf, or any other electronic means that reproduces an image of an actual executed signature page), each of which shall be of the same legal effect, validity or enforceability as a manually executed signature, physical delivery thereof or the use of a paper-based recordkeeping system, as the case may be; provided that nothing herein shall require the Administrative Agent to accept Electronic Signatures in any form or format without its prior written consent and pursuant to procedures approved by it; provided, further, without limiting the foregoing, (i) to the extent the Administrative Agent has agreed to accept any Electronic Signature, the Administrative Agent and each of the Lenders shall be entitled to rely on such Electronic Signature purportedly given by or on behalf of the Borrower or any other Loan Party without further verification thereof and without any obligation to review the appearance or form of any such Electronic Signature and (ii) upon the request of the Administrative Agent or any Lender, any Electronic Signature shall be promptly followed by a manually executed counterpart. Without limiting the generality of the foregoing, the Borrower and each other Loan Party hereby (i) agrees that, for all purposes, including without limitation, in connection with any workout, restructuring, enforcement of remedies, bankruptcy proceedings or litigation among the Administrative Agent, the Lenders, the Borrower and the other Loan Parties, Electronic Signatures transmitted by telecopy, emailed pdf, or any other electronic means that reproduces an image of an actual executed signature page and/or any electronic images of this Agreement, any other Loan Document and/or any Ancillary Document shall have the same legal effect, validity and enforceability as any paper original, (ii) agrees that the Administrative Agent and each of the Lenders may, at its option, create one or more copies of this Agreement, any other Loan Document and/or any Ancillary Document in the form of an imaged electronic record in any format, which shall be deemed created in the ordinary course of such Person's business, and destroy the original paper document (and all such electronic records shall be considered an original for all purposes and shall have the same legal effect, validity and enforceability as a paper record), (iii) waives any argument, defense or right to contest the legal effect, validity or enforceability of this Agreement, any other Loan Document and/or any Ancillary Document based solely on the lack of paper original copies of this Agreement, such other Loan Document and/or such Ancillary Document, respectively, including with respect to any signature pages thereto and (iv) waives any claim against any Lender-Related Person for any Liabilities arising solely from the Administrative Agent's and/or any Lender's reliance on or use of Electronic Signatures and/or transmissions by telecopy, emailed pdf, or any other electronic means that reproduces an image of an actual executed signature page, including any Liabilities arising as a result of the failure of the Borrower and/or any other Loan Party to use any available security measures in connection with the execution, delivery or transmission of any Electronic Signature.

SECTION 1.07. Severability. Any provision of any Loan Document held to be invalid, illegal or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such invalidity, illegality or unenforceability without affecting the validity, legality and enforceability of the remaining provisions thereof; and the invalidity of a particular provision in a particular jurisdiction shall not invalidate such provision in any other jurisdiction.

SECTION 1.08. Right of Setoff. If an Event of Default shall have occurred and be continuing, each Lender, the Issuing Bank, and each of their respective Affiliates is hereby authorized at any time and from time to time, to the fullest extent permitted by law, to setoff and apply any and all deposits (general or special, time or demand, provisional or final) at any time held, and other obligations

at any time owing, by such Lender, the Issuing Bank or any such Affiliate, to or for the credit or the account of the Borrower against any and all of the obligations of the Borrower now or hereafter existing under this Agreement or any other Loan Document to such Lender or the Issuing Bank or their respective Affiliates, irrespective of whether or not such Lender, the Issuing Bank or Affiliate shall have made any demand under this Agreement or any other Loan Document and although such obligations of the Borrower may be contingent or unmatured or are owed to a branch office or Affiliate of such Lender or the Issuing Bank different from the branch office or Affiliate holding such deposit or obligated on such indebtedness; provided that in the event that any Defaulting Lender shall exercise any such right of setoff, (x) all amounts so setoff shall be paid over immediately to the Administrative Agent for further application in accordance with the provisions of Section 2.22 and, pending such payment, shall be segregated by such Defaulting Lender from its other funds and deemed held in trust for the benefit of the Administrative Agent, the Issuing Bank, and the Lenders, and (y) the Defaulting Lender shall provide promptly to the Administrative Agent a statement describing in reasonable detail the Secured Obligations owing to such Defaulting Lender as to which it exercised such right of setoff. The rights of each Lender, the Issuing Bank and their respective Affiliates under this Section are in addition to other rights and remedies (including other rights of setoff) that such Lender, such Issuing Bank or their respective Affiliates may have. Each Lender and the Issuing Bank agrees to notify the Borrower and the Administrative Agent promptly after any such setoff and application; provided that the failure to give such notice shall not affect the validity of such setoff and application.

SECTION 1.09. Governing Law; Jurisdiction; Consent to Service of Process.

(a) THIS AGREEMENT AND THE OTHER LOAN DOCUMENTS (EXCEPT AS OTHERWISE EXPRESSLY SET FORTH IN ANY SUCH OTHER LOAN DOCUMENT) SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAW OF THE STATE OF NEW YORK.

(b) Each of the Lenders and the Administrative Agent hereby irrevocably and unconditionally agrees that, notwithstanding the governing law provisions of any applicable Loan Document, any claims brought against the Administrative Agent by any Secured Party relating to this Agreement, any other Loan Document, the Collateral or the consummation or administration of the transactions contemplated hereby or thereby shall be construed in accordance with and governed by the law of the State of New York.

(c) Each of the parties hereto hereby irrevocably and unconditionally submits, for itself and its property, to the exclusive jurisdiction of the United States District Court for the Southern District of New York sitting in the Borough of Manhattan (or if such court lacks subject matter jurisdiction, the Supreme Court of the State of New York sitting in the Borough of Manhattan), and any appellate court from any thereof, in any action or proceeding arising out of or relating to this Agreement or any other Loan Document or the transactions relating hereto or thereto, or for recognition or enforcement of any judgment, and each of the parties hereto hereby irrevocably and unconditionally agrees that all claims in respect of any such action or proceeding may (and any such claims, cross-claims or third party claims brought against the Administrative Agent or any of its Related Parties may only) be heard and determined in such Federal (to the extent permitted by law) or New York State court. Each of the parties hereto agrees that a final judgment in any such action or proceeding shall be conclusive and may be enforced in other jurisdictions by suit on the judgment or in any other manner provided by law. Nothing in this Agreement or in any other Loan Document shall affect any right that the Administrative Agent, the Issuing Bank or any Lender may otherwise have to bring any action or proceeding relating to this Agreement or any other Loan Document against any Loan Party or its properties in the courts of any jurisdiction.

(d) Each of the parties hereto hereby irrevocably and unconditionally waives, to the fullest extent it may legally and effectively do so, any objection which it may now or hereafter have to the laying of venue of any suit, action or proceeding arising out of or relating to this Agreement or any other Loan Document in any court referred to in paragraph (c) of this Section. Each of the parties hereto hereby irrevocably waives, to the fullest extent permitted by law, the defense of an inconvenient forum to the maintenance of such action or proceeding in any such court.

(e) Each of the parties hereto hereby irrevocably consents to service of process in the manner provided for notices in Section 9.01. Nothing in this Agreement or any other Loan Document will affect the right of any party to this Agreement to serve process in any other manner permitted by law.

(f) If, notwithstanding the provisions of this Section 9.09, any action or proceeding is filed in a court of the State of California by or against any party hereto in connection with any of the transactions contemplated by this Agreement or any other Loan Document, (i) the court shall, and is hereby directed to, make a general reference pursuant to California Code of Civil Procedure Section 638 to a referee (who shall be a single active or retired judge) to hear and determine all of the issues in such action or proceeding (whether of fact or of law) and to report a statement of decision, provided that at the option of any party to such proceeding, any such issues pertaining to a "provisional remedy" as defined in California Code of Civil Procedure Section 1281.8 shall be heard and determined by the court, and (b) without limiting the generality of Section 9.03, the Borrower shall be solely responsible to pay all fees and expenses of any referee appointed in such action or proceeding.

SECTION 1.10. WAIVER OF JURY TRIAL. EACH PARTY HERETO HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN ANY LEGAL PROCEEDING DIRECTLY OR INDIRECTLY ARISING OUT OF OR RELATING TO THIS AGREEMENT, ANY OTHER LOAN DOCUMENT OR THE TRANSACTIONS CONTEMPLATED HEREBY OR THEREBY (WHETHER BASED ON CONTRACT, TORT OR ANY OTHER THEORY). EACH PARTY HERETO (A) CERTIFIES THAT NO REPRESENTATIVE, AGENT OR ATTORNEY OF ANY OTHER PARTY HAS REPRESENTED, EXPRESSLY OR OTHERWISE, THAT SUCH OTHER PARTY WOULD NOT, IN THE EVENT OF LITIGATION, SEEK TO ENFORCE THE FOREGOING WAIVER AND (B) ACKNOWLEDGES THAT IT AND THE OTHER PARTIES HERETO HAVE BEEN INDUCED TO ENTER INTO THIS AGREEMENT BY, AMONG OTHER THINGS, THE MUTUAL WAIVERS AND CERTIFICATIONS IN THIS SECTION.

SECTION 1.11. Headings. Article and Section headings and the Table of Contents used herein are for convenience of reference only, are not part of this Agreement and shall not affect the construction of, or be taken into consideration in interpreting, this Agreement.

SECTION 1.12. Confidentiality. Each of the Administrative Agent, the Issuing Bank and the Lenders agrees to maintain the confidentiality of the Information (as defined below), except that Information may be disclosed (a) to its and its Affiliates' directors, officers, employees and agents, including accountants, legal counsel and other advisors (it being understood that the Persons to whom such disclosure is made will be informed of the confidential nature of such Information and instructed to keep such Information confidential); provided that the disclosing Administrative Agent, Issuing Bank or Lender, as applicable, shall be responsible for compliance by such Persons with the provisions of this Section 9.12, (b) to the extent requested by any Governmental Authority (including any self-regulatory authority, such as the National Association of Insurance Commissioners) purporting to have jurisdiction over the Administrative Agent, Issuing Bank, the applicable Lender or its or their applicable Affiliates, (c) to the extent required by applicable laws or regulations or by any subpoena or similar legal process (provided that the Administrative Agent or such Lender, as applicable, agrees that it will, to the extent practicable and other than with respect to any audit or examination conducted by bank accountants or any governmental bank regulatory authority exercising examination or regulatory authority, notify the Borrower promptly thereof, unless such notification is prohibited by law, rule or regulation), (d) to any other party to this Agreement, (e) in connection with the exercise of any remedies under this Agreement or any other Loan Document or any suit, action or proceeding relating to this Agreement or any other Loan Document or the enforcement of rights hereunder or thereunder, (f) subject to an agreement containing provisions substantially the same as those of this Section, to (1) any assignee of or Participant in, or any prospective assignee of or Participant in, any of its rights or obligations under this Agreement (it being understood that the DQ List may be disclosed to any assignee or Participant, or prospective assignee or Participant, in reliance on this clause (f)) or (2) any actual or prospective counterparty (or its advisors) to any swap or derivative transaction relating to the Borrower and its obligations, (g) on a confidential basis to (1) any rating agency in connection with rating the Borrower or its Subsidiaries or the credit facilities provided for herein or (2) the CUSIP Service Bureau or any similar agency in connection with the issuance and monitoring of identification numbers with respect to the credit facilities

provided for herein, (h) with the consent of the Borrower or (i) to the extent such Information (1) becomes publicly available other than as a result of a breach of this Section or (2) becomes available to the Administrative Agent, the Issuing Bank or any Lender on a nonconfidential basis from a source other than the Borrower. For the purposes of this Section, "Information" means all information received from the Borrower relating to the Borrower or its business, other than any such information that is available to the Administrative Agent, the Issuing Bank or any Lender on a nonconfidential basis prior to disclosure by the Borrower and other than information pertaining to this Agreement routinely provided by arrangers to data service providers, including league table providers, that serve the lending industry. Any Person required to maintain the confidentiality of Information as provided in this Section shall be considered to have complied with its obligation to do so if such Person has exercised the same degree of care to maintain the confidentiality of such Information as such Person would accord to its own confidential information.

EACH LENDER ACKNOWLEDGES THAT INFORMATION AS DEFINED IN THE IMMEDIATELY PRECEDING PARAGRAPH FURNISHED TO IT PURSUANT TO THIS AGREEMENT MAY INCLUDE MATERIAL NON-PUBLIC INFORMATION CONCERNING THE BORROWER AND ITS RELATED PARTIES OR THEIR RESPECTIVE SECURITIES, AND CONFIRMS THAT IT HAS DEVELOPED COMPLIANCE PROCEDURES REGARDING THE USE OF MATERIAL NON-PUBLIC INFORMATION AND THAT IT WILL HANDLE SUCH MATERIAL NON-PUBLIC INFORMATION IN ACCORDANCE WITH THOSE PROCEDURES AND APPLICABLE LAW, INCLUDING FEDERAL AND STATE SECURITIES LAWS.

ALL INFORMATION, INCLUDING REQUESTS FOR WAIVERS AND AMENDMENTS, FURNISHED BY THE BORROWER OR THE ADMINISTRATIVE AGENT PURSUANT TO, OR IN THE COURSE OF ADMINISTERING, THIS AGREEMENT WILL BE SYNDICATE-LEVEL INFORMATION, WHICH MAY CONTAIN MATERIAL NON-PUBLIC INFORMATION ABOUT THE BORROWER, THE OTHER LOAN PARTIES AND THEIR RELATED PARTIES OR THEIR RESPECTIVE SECURITIES. ACCORDINGLY, EACH LENDER REPRESENTS TO THE BORROWER AND THE ADMINISTRATIVE AGENT THAT IT HAS IDENTIFIED IN ITS ADMINISTRATIVE QUESTIONNAIRE A CREDIT CONTACT WHO MAY RECEIVE INFORMATION THAT MAY CONTAIN MATERIAL NON-PUBLIC INFORMATION IN ACCORDANCE WITH ITS COMPLIANCE PROCEDURES AND APPLICABLE LAW.

SECTION 1.13. USA PATRIOT Act. Each Lender that is subject to the requirements of the Patriot Act and the requirements of the Beneficial Ownership Regulation hereby notifies the Borrower that, pursuant to the requirements of the Patriot Act and the Beneficial Ownership Regulation, it is required to obtain, verify and record information that identifies the Borrower, which information includes the name, address and tax identification number of the Borrower and other information that will allow such Lender to identify the Borrower in accordance with the Patriot Act and the Beneficial Ownership Regulation and other applicable "know your customer" and anti-money laundering rules and regulations.

SECTION 1.14. Releases of Subsidiary Guarantors.

(a) A Subsidiary Guarantor shall automatically be released from its obligations under the Loan Documents upon the consummation of any transaction permitted by this Agreement as a result of which such Subsidiary Guarantor ceases to be a Subsidiary; provided that, if so required by this Agreement, the Required Lenders shall have consented to such transaction and the terms of such consent shall not have provided otherwise. Upon any sale or other disposition (other than any lease or license) by any Loan Party (other than to the Borrower or any Subsidiary) of any Collateral in a transaction permitted under this Agreement, or upon the effectiveness of any written consent to the release of the security interest created under any Collateral Document in any Collateral pursuant to Section 9.02, the security interests in such Collateral created by the Collateral Documents shall be automatically released. In connection with any termination or release pursuant to this Section (including pursuant to clause (b) or (c) below), the Administrative Agent shall (and is hereby irrevocably authorized by each Lender to) execute and deliver to any Loan Party, at such Loan Party's expense, all documents that such Loan Party shall reasonably request to evidence such termination or release. Any execution and delivery of documents

pursuant to this Section shall be without recourse to or warranty by the Administrative Agent except as may otherwise be expressly agreed in writing by the Administrative Agent and such Loan Party.

(b) Further, the Administrative Agent may (and is hereby irrevocably authorized by each Lender to), upon the request of the Borrower, release any Subsidiary Guarantor from its obligations under the Subsidiary Guaranty if (i) such Subsidiary Guarantor is no longer a Material Subsidiary, becomes an Excluded Subsidiary or is otherwise not required pursuant to the terms of this Agreement to be a Subsidiary Guarantor or (ii) such release is approved, authorized or ratified by the requisite Lenders pursuant to Section 9.02.

(c) At such time as the principal and interest on the Loans, all LC Disbursements, the fees, expenses and other amounts payable under the Loan Documents and the other Secured Obligations (other than Swap Obligations not yet due and payable, Banking Services Obligations not yet due and payable, Unliquidated Obligations for which no claim has been made and other Obligations expressly stated to survive such payment and termination) shall have been paid in full in cash, the Commitments shall have been terminated and no Letters of Credit shall be outstanding (or any outstanding Letters of Credit shall have been cash collateralized or backstopped pursuant to arrangements reasonably satisfactory to the Administrative Agent) (the foregoing, collectively, the “Final Release Conditions”), the Subsidiary Guaranty and all obligations (other than those expressly stated to survive such termination) of each Subsidiary Guarantor thereunder shall automatically terminate, all without delivery of any instrument or performance of any act by any Person.

SECTION 1.15. Appointment for Perfection. Each Lender hereby appoints each other Lender as its agent for the purpose of perfecting Liens, for the benefit of the Administrative Agent and the Secured Parties, in assets which, in accordance with Article 9 of the UCC or any other applicable law can be perfected only by possession or control. Should any Lender (other than the Administrative Agent) obtain possession or control of any such Collateral, such Lender shall notify the Administrative Agent thereof, and, promptly upon the Administrative Agent’s request therefor shall deliver such Collateral to the Administrative Agent or otherwise deal with such Collateral in accordance with the Administrative Agent’s instructions.

SECTION 1.16. Interest Rate Limitation. Notwithstanding anything herein to the contrary, if at any time the interest rate applicable to any Loan, together with all fees, charges and other amounts which are treated as interest on such Loan under applicable law (collectively the “Charges”), shall exceed the maximum lawful rate (the “Maximum Rate”) which may be contracted for, charged, taken, received or reserved by the Lender holding such Loan in accordance with applicable law, the rate of interest payable in respect of such Loan hereunder, together with all Charges payable in respect thereof, shall be limited to the Maximum Rate and, to the extent lawful, the interest and Charges that would have been payable in respect of such Loan but were not payable as a result of the operation of this Section shall be cumulated and the interest and Charges payable to such Lender in respect of other Loans or periods shall be increased (but not above the Maximum Rate therefor) until such cumulated amount, together with interest thereon at the **NYFRB applicable Overnight** Rate to the date of repayment, shall have been received by such Lender.

SECTION 1.17. No Fiduciary Duty, etc.

(a) The Borrower acknowledges and agrees, and acknowledges its Subsidiaries’ understanding, that no Credit Party will have any obligations except those obligations expressly set forth herein and in the other Loan Documents and each Credit Party is acting solely in the capacity of an arm’s length contractual counterparty to the Borrower with respect to the Loan Documents and the transactions contemplated herein and therein and not as a financial advisor or a fiduciary to, or an agent of, the Borrower or any other person. The Borrower agrees that it will not assert any claim against any Credit Party based on an alleged breach of fiduciary duty by such Credit Party in connection with this Agreement and the transactions contemplated hereby. Additionally, the Borrower acknowledges and agrees that no Credit Party is advising the Borrower as to any legal, tax, investment, accounting, regulatory or any other matters in any jurisdiction. The Borrower shall consult with its own advisors concerning such matters and shall be responsible for making its own independent investigation and

appraisal of the transactions contemplated herein or in the other Loan Documents, and the Credit Parties shall have no responsibility or liability to the Borrower with respect thereto.

(b) The Borrower further acknowledges and agrees, and acknowledges its Subsidiaries' understanding, that each Credit Party, together with its Affiliates, is a full service securities or banking firm engaged in securities trading and brokerage activities as well as providing investment banking and other financial services. In the ordinary course of business, any Credit Party may provide investment banking and other financial services to, and/or acquire, hold or sell, for its own accounts and the accounts of customers, equity, debt and other securities and financial instruments (including bank loans and other obligations) of, the Borrower, its Subsidiaries and other companies with which the Borrower or any of its Subsidiaries may have commercial or other relationships. With respect to any securities and/or financial instruments so held by any Credit Party or any of its customers, all rights in respect of such securities and financial instruments, including any voting rights, will be exercised by the holder of the rights, in its sole discretion.

(c) In addition, the Borrower acknowledges and agrees, and acknowledges its Subsidiaries' understanding, that each Credit Party and its Affiliates may be providing debt financing, equity capital or other services (including financial advisory services) to other companies in respect of which the Borrower or any of its Subsidiaries may have conflicting interests regarding the transactions described herein and otherwise. No Credit Party will use confidential information obtained from the Borrower by virtue of the transactions contemplated by the Loan Documents or its other relationships with the Borrower in connection with the performance by such Credit Party of services for other companies, and no Credit Party will furnish any such information to other companies. The Borrower also acknowledges that no Credit Party has any obligation to use in connection with the transactions contemplated by the Loan Documents, or to furnish to the Borrower or any of its Subsidiaries, confidential information obtained from other companies.

SECTION 1.18. Acknowledgement and Consent to Bail-In of Affected Financial Institutions. Notwithstanding anything to the contrary in any Loan Document or in any other agreement, arrangement or understanding among any such parties, each party hereto acknowledges that any liability of any Affected Financial Institution arising under any Loan Document may be subject to the Write-Down and Conversion Powers of the applicable Resolution Authority and agrees and consents to, and acknowledges and agrees to be bound by:

(a) the application of any Write-Down and Conversion Powers by the applicable Resolution Authority to any such liabilities arising hereunder which may be payable to it by any party hereto that is an Affected Financial Institution; and

(b) the effects of any Bail-In Action on any such liability, including, if applicable:

(i) a reduction in full or in part or cancellation of any such liability;

(ii) a conversion of all, or a portion of, such liability into shares or other instruments of ownership in such Affected Financial Institution, its parent entity, or a bridge institution that may be issued to it or otherwise conferred on it, and that such shares or other instruments of ownership will be accepted by it in lieu of any rights with respect to any such liability under this Agreement or any other Loan Document; or

(iii) the variation of the terms of such liability in connection with the exercise of the Write-Down and Conversion Powers of the applicable Resolution Authority.

SECTION 1.19. Acknowledgement Regarding Any Supported QFCs. To the extent that the Loan Documents provide support, through a guarantee or otherwise, for Swap Agreements or any other agreement or instrument that is a QFC (such support "QFC Credit Support" and each such QFC a "Supported QFC"), the parties acknowledge and agree as follows with respect to the resolution power of the Federal Deposit Insurance Corporation under the Federal Deposit Insurance Act and Title II of the Dodd-Frank Wall Street Reform and Consumer Protection Act (together with the regulations promulgated thereunder, the "U.S. Special Resolution Regimes") in respect of such Supported QFC and QFC Credit

Support (with the provisions below applicable notwithstanding that the Loan Documents and any Supported QFC may in fact be stated to be governed by the laws of the State of New York and/or of the United States or any other state of the United States):

In the event a Covered Entity that is party to a Supported QFC (each, a “Covered Party”) becomes subject to a proceeding under a U.S. Special Resolution Regime, the transfer of such Supported QFC and the benefit of such QFC Credit Support (and any interest and obligation in or under such Supported QFC and such QFC Credit Support, and any rights in property securing such Supported QFC or such QFC Credit Support) from such Covered Party will be effective to the same extent as the transfer would be effective under the U.S. Special Resolution Regime if the Supported QFC and such QFC Credit Support (and any such interest, obligation and rights in property) were governed by the laws of the United States or a state of the United States. In the event a Covered Party or a BHC Act Affiliate of a Covered Party becomes subject to a proceeding under a U.S. Special Resolution Regime, Default Rights under the Loan Documents that might otherwise apply to such Supported QFC or any QFC Credit Support that may be exercised against such Covered Party are permitted to be exercised to no greater extent than such Default Rights could be exercised under the U.S. Special Resolution Regime if the Supported QFC and the Loan Documents were governed by the laws of the United States or a state of the United States. Without limitation of the foregoing, it is understood and agreed that rights and remedies of the parties with respect to a Defaulting Lender shall in no event affect the rights of any Covered Party with respect to a Supported QFC or any QFC Credit Support.

ARTICLE X

Borrower Guarantee

In order to induce the Lenders to extend credit to the Borrower hereunder and for other good and valuable consideration (the receipt and sufficiency of which are hereby acknowledged), the Borrower hereby absolutely and irrevocably and unconditionally guarantees, as a primary obligor and not merely as a surety, the payment when and as due of the Specified Ancillary Obligations of the Subsidiaries. The Borrower further agrees that the due and punctual payment of such Specified Ancillary Obligations may be extended or renewed, in whole or in part, without notice to or further assent from it, and that it will remain bound upon its guarantee hereunder notwithstanding any such extension or renewal of any such Specified Ancillary Obligation.

The Borrower waives presentment to, demand of payment from and protest to any Subsidiary of any of the Specified Ancillary Obligations, and also waives notice of acceptance of its obligations and notice of protest for nonpayment. The obligations of the Borrower hereunder shall not be affected by (a) the failure of any applicable Lender (or any of its Affiliates) to assert any claim or demand or to enforce any right or remedy against any Subsidiary under the provisions of any Banking Services Agreement, any Swap Agreement or otherwise; (b) any extension or renewal of any of the Specified Ancillary Obligations; (c) any rescission, waiver, amendment or modification of, or release from, any of the terms or provisions of this Agreement, any other Loan Document, any Banking Services Agreement, any Swap Agreement or other agreement; (d) any default, failure or delay, willful or otherwise, in the performance of any of the Specified Ancillary Obligations; (e) the failure of any applicable Lender (or any of its Affiliates) to take any steps to perfect and maintain any security interest in, or to preserve any rights to, any security or collateral for the Specified Ancillary Obligations, if any; (f) any change in the corporate, partnership or other existence, structure or ownership of any Subsidiary or any other guarantor of any of the Specified Ancillary Obligations; (g) the enforceability or validity of the Specified Ancillary Obligations or any part thereof or the genuineness, enforceability or validity of any agreement relating thereto or with respect to any collateral securing the Specified Ancillary Obligations or any part thereof, or any other invalidity or unenforceability relating to or against any Subsidiary or any other guarantor of any of the Specified Ancillary Obligations, for any reason related to this Agreement, any other Loan Document, any Banking Services Agreement, any Swap Agreement, or any provision of applicable law, decree, order or regulation of any jurisdiction purporting to prohibit the payment by such Subsidiary or any other guarantor of the Specified Ancillary Obligations, of any of the Specified Ancillary Obligations or otherwise affecting any term of any of the Specified Ancillary Obligations; or (h) any other act, omission or delay to do any other act which may or might in any manner or to any extent vary the risk of

the Borrower or otherwise operate as a discharge of a guarantor as a matter of law or equity or which would impair or eliminate any right of the Borrower to subrogation.

The Borrower further agrees that its agreement hereunder constitutes a guarantee of payment when due (whether or not any bankruptcy or similar proceeding shall have stayed the accrual or collection of any of the Specified Ancillary Obligations or operated as a discharge thereof) and not merely of collection, and waives any right to require that any resort be had by any applicable Lender (or any of its Affiliates) to any balance of any deposit account or credit on the books of the Administrative Agent, the Issuing Bank or any Lender in favor of any Subsidiary or any other Person.

The obligations of the Borrower hereunder shall not be subject to any reduction, limitation, impairment or termination for any reason, and shall not be subject to any defense or setoff, counterclaim, recoupment or termination whatsoever, by reason of the invalidity, illegality or unenforceability of any of the Specified Ancillary Obligations, any impossibility in the performance of any of the Specified Ancillary Obligations or otherwise.

The Borrower further agrees that its obligations hereunder shall constitute a continuing and irrevocable guarantee of all Specified Ancillary Obligations now or hereafter existing and shall continue to be effective or be reinstated, as the case may be, if at any time payment, or any part thereof, of any Specified Ancillary Obligation (including a payment effected through exercise of a right of setoff) is rescinded, or is or must otherwise be restored or returned by any applicable Lender (or any of its Affiliates) upon the insolvency, bankruptcy or reorganization of any Subsidiary or otherwise (including pursuant to any settlement entered into by a holder of Specified Ancillary Obligations in its discretion).

In furtherance of the foregoing and not in limitation of any other right which any applicable Lender (or any of its Affiliates) may have at law or in equity against the Borrower by virtue hereof, upon the failure of any Subsidiary to pay any Specified Ancillary Obligation when and as the same shall become due, whether at maturity, by acceleration, after notice of prepayment or otherwise, the Borrower hereby promises to and will, upon receipt of written demand by any applicable Lender (or any of its Affiliates), forthwith pay, or cause to be paid, to such applicable Lender (or any of its Affiliates) in cash an amount equal to the unpaid principal amount of such Specified Ancillary Obligations then due, together with accrued and unpaid interest thereon. The Borrower further agrees that if payment in respect of any Specified Ancillary Obligation shall be due in a currency other than Dollars and/or at a place of payment other than New York, Chicago or any other ~~Eurocurrency Payment Office~~ office, branch, affiliate or correspondent bank of the applicable Lender for such currency and if, by reason of any Change in Law, disruption of currency or foreign exchange markets, war or civil disturbance or other event, payment of such Specified Ancillary Obligation in such currency or at such place of payment shall be impossible or, in the reasonable judgment of any applicable Lender (or any of its Affiliates), disadvantageous to such applicable Lender (or any of its Affiliates) in any material respect, then, at the election of such applicable Lender, the Borrower shall make payment of such Specified Ancillary Obligation in Dollars (based upon the Dollar Amount of such Specified Ancillary Obligation on the date of payment) and/or in New York, Chicago or such other ~~Eurocurrency Payment Office~~ payment office as is designated by such applicable Lender (or its Affiliate) and, as a separate and independent obligation, shall indemnify such applicable Lender (and any of its Affiliates) against any losses or reasonable out-of-pocket expenses that it shall sustain as a result of such alternative payment.

Upon payment by the Borrower of any sums as provided above, all rights of the Borrower against any Subsidiary arising as a result thereof by way of right of subrogation or otherwise shall in all respects be subordinated and junior in right of payment to the prior indefeasible payment in full in cash of all the Specified Ancillary Obligations owed by such Subsidiary to the applicable Lender (or its applicable Affiliates).

The Borrower hereby absolutely, unconditionally and irrevocably undertakes to provide such funds or other support as may be needed from time to time by each Subsidiary Guarantor to honor all of its obligations under the Subsidiary Guaranty in respect of Specified Swap Obligations (provided, however, that the Borrower shall only be liable under this paragraph for the maximum amount of such liability that can be hereby incurred without rendering its obligations under this paragraph or otherwise under this Article X voidable under applicable law relating to fraudulent conveyance or fraudulent

transfer, and not for any greater amount). The Borrower intends that this paragraph constitute, and this paragraph shall be deemed to constitute, a “keepwell, support, or other agreement” for the benefit of each Subsidiary Guarantor for all purposes of Section 1a(18)(A)(v)(II) of the Commodity Exchange Act.

Nothing shall discharge or satisfy the liability of the Borrower hereunder except the full performance and payment in cash of the Secured Obligations.

[Signature Pages Follow]

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered by their respective authorized officers as of the day and year first above written.

PENUMBRA, INC.,
as the Borrower

By _____
Name:
Title:

Signature Page to Credit Agreement
Penumbra, Inc.

JPMORGAN CHASE BANK, N.A., individually as a Lender, as the Swingline Lender, as an Issuing Bank and as Administrative Agent

By _____
Name:
Title:

Signature Page to Credit Agreement
Penumbra, Inc.

BANK OF AMERICA, N.A., individually as a Lender

By _____
Name:
Title:

Signature Page to Credit Agreement
Penumbra, Inc.

CITIBANK, N.A., individually as a Lender and as an Issuing Bank

By _____
Name:
Title:

Signature Page to Credit Agreement
Penumbra, Inc.

**CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER
PURSUANT TO RULE 13a-14(a) AND 15d-14(a) OF THE SECURITIES EXCHANGE ACT, AS ADOPTED PURSUANT TO SECTION 302 OF THE
SARBANES-OXLEY ACT OF 2002**

I, Adam Elsesser, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Penumbra, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 3, 2022

/s/ Adam Elsesser

Adam Elsesser

Chairman, Chief Executive Officer and President

CERTIFICATION OF PRINCIPAL FINANCIAL OFFICER

**PURSUANT TO RULE 13a-14(a) AND 15d-14(a) OF THE SECURITIES EXCHANGE ACT, AS ADOPTED PURSUANT TO SECTION 302 OF THE
SARBANES-OXLEY ACT OF 2002**

I, Maggie Yuen, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of Penumbra, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 3, 2022

/s/ Maggie Yuen

Maggie Yuen

Chief Financial Officer

PENUMBRA, INC.
CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Penumbra, Inc. (the “Company”) on Form 10-Q for the fiscal quarter ended March 31, 2022, as filed with the Securities and Exchange Commission (the “Report”), Adam Elsesser, Chairman, Chief Executive Officer and President of the Company, and Maggie Yuen, Chief Financial Officer of the Company, respectively, do each hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company at the dates and for the periods presented.

/s/ Adam Elsesser

Adam Elsesser
Chairman, Chief Executive Officer and President

/s/ Maggie Yuen

Maggie Yuen
Chief Financial Officer

Date: May 3, 2022