



**VALIDUS HOLDINGS, LTD.**

**FINANCIAL CONDITION REPORT**

**DECEMBER 31, 2016**

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## 1. BUSINESS AND PERFORMANCE

### a. Name of the insurance group

Validus Holdings Group (“the Company” or “the Group”), including Validus Reinsurance, Ltd.

### b. Name and contact details of the group supervisor

Bermuda Monetary Authority (“BMA”)  
 BMA House  
 43 Victoria Street  
 Hamilton, Bermuda  
 Telephone: (441) 295-5278  
 Fax: (441) 292-7471

### c. Name and contact details of the approved group auditor

PricewaterhouseCoopers Ltd.  
 Dorchester House  
 7 Church Street West  
 Hamilton, HM 11, Bermuda  
 Telephone: (441) 295-2000  
 Fax: (441) 295-1242

### d. A description of the ownership details including proportion of ownership interest of the insurance group

The following table sets forth information as of March 10, 2017 (record date for the Company’s 2017 Proxy Statement) regarding the beneficial ownership of our common shares by:

- each person known by us to beneficially own more than 5% of our outstanding common shares;
- each of our directors;
- each of our named executive officers; and
- all of our directors and executive officers as a group.

The information provided in the table below with respect to each principal shareholder has been obtained from that shareholder.

Beneficial owner (a)(b)	Common shares	Unvested restricted shares	Total common shares and common share equivalents	Total beneficial ownership (%)
Funds affiliated with or managed by The Vanguard Group .....	6,080,817	—	6,080,817	7.68%
Edward J. Noonan .....	1,099,388	92,362	1,191,750	1.39%
Jeffrey D. Sangster .....	116,992	59,042	176,034	0.15%
Kean D. Driscoll .....	45,661	71,633	117,294	0.06%
Robert F. Kuzloski .....	41,800	68,310	110,110	0.05%
John J. Hendrickson .....	47,895	67,351	115,246	0.06%
Michael E.A. Carpenter .....	244,342	—	244,342	0.31%
Matthew J. Grayson .....	107,520	—	107,520	0.14%
Jeffrey W. Greenberg .....	3,027	—	3,027	—%
Jean-Marie Nessi .....	—	—	—	—%
Mandakini Puri .....	4,883	—	4,883	0.01%
Gail Ross .....	1,027	—	1,027	—%
Dr. Therese M. Vaughan .....	4,883	—	4,883	0.01%
Mahmoud Abdallah .....	4,883	—	4,883	0.01%
Christopher E. Watson .....	1,822	—	1,822	—%
Directors and Executive Officers as a group (21 persons) .....	1,843,176	671,740	2,514,916	2.33%
Shares held by other persons owning less than 5% .....	71,213,694	1,932,786	73,146,480	89.99%
<b>Total</b> .....	<b>79,137,687</b>	<b>2,604,526</b>	<b>81,742,213</b>	<b>100.00%</b>

(a) All holdings in this beneficial ownership table have been rounded to the nearest whole share.

(b) Except as otherwise provided in these footnotes, excludes shares as to which beneficial ownership is disclaimed.

**e. Group structure chart for the Company**

Please see Exhibit A for a complete listing of the Company’s subsidiaries as at December 31, 2016.

Validus Reinsurance, Ltd. is a wholly owned subsidiary of Validus Holdings, Ltd.

**f. Insurance business written by business segment and by geographical region for the year ended December 31, 2016**

The Company conducts its operations worldwide through four operating segments which have been determined under U.S. GAAP segment reporting: Validus Re, Talbot, Western World, and AlphaCat.

Validus Re is a global reinsurance segment focused primarily on treaty reinsurance. Validus Re concentrates on first-party property and other reinsurance risks commonly referred to as short-tail in nature due to the relatively brief period between the occurrence and payment of a claim. The primary lines in which Validus Re conducts its business are property, marine and specialty.

Talbot is a specialty insurance segment, primarily operating within the Lloyd’s insurance market through Syndicate 1183. Talbot writes primarily short-tail lines of business and focuses mostly on insurance risks. The primary lines in which Talbot conducts its business are property, marine and specialty.

Western World is a U.S. based specialty excess and surplus lines insurance segment operating within the U.S. commercial market. Western World primarily insures small to medium size commercial and institutional risks covering general liability, professional liability, product liability, miscellaneous malpractice and property classes. The primary lines in which Western World conducts its business are property and liability.

AlphaCat is a Bermuda-based investment adviser, managing capital for third parties and the Company in insurance linked securities and other property catastrophe and specialty reinsurance investments.

The Company’s exposures are generally diversified across geographic zones. The following tables set forth the gross premiums written allocated to the territory of coverage exposure for the years indicated:

(Dollars in thousands)	Gross Premiums Written						
	Year Ended December 31, 2016						
	Validus Re	Talbot	Western World	AlphaCat	Eliminations	Total	%
United States .....	\$ 448,243	\$ 103,415	\$ 323,220	\$ 64,766	\$ (2,057)	\$ 937,587	35.4%
Worldwide excluding United States <sup>(a)</sup>	51,902	148,347	—	22,206	(689)	221,766	8.4%
Australia and New Zealand.....	7,389	10,844	—	4,949	(133)	23,049	0.9%
Europe.....	28,967	34,264	—	3,245	(695)	65,781	2.4%
Latin America and Caribbean .....	47,586	102,293	—	—	(9,484)	140,395	5.3%
Japan .....	40,099	6,580	—	3,221	(33)	49,867	1.9%
Canada .....	3,349	6,834	—	207	(147)	10,243	0.4%
Rest of the world <sup>(b)</sup> .....	22,595	107,106	—	—	(2,449)	127,252	4.8%
Sub-total, non United States.....	201,887	416,268	—	33,828	(13,630)	638,353	24.1%
Worldwide including United States <sup>(a)</sup>	167,065	98,311	—	170,253	(10,983)	424,646	16.0%
Other locations non-specific <sup>(c)</sup> .....	293,859	352,708	—	1,555	(3)	648,119	24.5%
Total .....	\$ 1,111,054	\$ 970,702	\$ 323,220	\$ 270,402	\$ (26,673)	\$ 2,648,705	100.0%

**Gross Premiums Written**

**Year Ended December 31, 2015**

<b>(Dollars in thousands)</b>	<b>Validus Re</b>	<b>Talbot</b>	<b>Western World</b>	<b>AlphaCat</b>	<b>Eliminations</b>	<b>Total</b>	<b>%</b>
United States .....	\$ 530,541	\$ 106,679	\$ 278,504	\$ 41,134	\$ (2,547)	\$ 954,311	37.4%
Worldwide excluding United States <sup>(a)</sup>	52,860	127,540	—	8,107	(1,186)	187,321	7.3%
Australia and New Zealand.....	12,190	8,974	—	624	(244)	21,544	0.8%
Europe .....	48,240	38,657	—	2,504	(1,135)	88,266	3.5%
Latin America and Caribbean .....	46,258	103,318	—	38	(15,481)	134,133	5.2%
Japan .....	38,885	5,171	—	1,671	(109)	45,618	1.8%
Canada .....	3,129	6,666	—	458	(231)	10,022	0.4%
Rest of the world <sup>(b)</sup> .....	21,498	103,237	—	—	(3,660)	121,075	4.7%
Sub-total, non United States.....	223,060	393,563	—	13,402	(22,046)	607,979	23.7%
Worldwide including United States <sup>(a)</sup>	139,419	100,523	—	116,523	(18,120)	338,345	13.2%
Other locations non-specific <sup>(c)</sup> .....	233,739	418,070	—	5,067	(5)	656,871	25.7%
<b>Total</b> .....	<b>\$ 1,126,759</b>	<b>\$ 1,018,835</b>	<b>\$ 278,504</b>	<b>\$ 176,126</b>	<b>\$ (42,718)</b>	<b>\$ 2,557,506</b>	<b>100.0%</b>

(a) Represents risks in two or more geographic zones.

(b) Represents risks in one geographic zone.

(c) The other locations non-specific category refers to business for which an analysis of exposure by geographic zone is not applicable since these exposures can span multiple geographic areas and, in some instances, are not fixed locations.

**g. Performance of investments, by asset class and details of material income and expenses incurred by the insurance group during the year ended December 31, 2016**

**Performance of investments**

Managed investments represent assets governed by the Company's investment policy statement ("IPS") whereas, non-managed investments represent assets held in support of consolidated AlphaCat variable interest entities which are not governed by the Company's IPS. Consequently, the Company only assesses the performance of its managed investment portfolio.

As at December 31, 2016, the fair values of the investment portfolios of Validus Reinsurance, Ltd. and the Company totaled \$5.0 billion (December 31, 2015: \$4.9 billion) and \$9.3 billion (December 31, 2015: \$8.7 billion), respectively, and were split by asset class as follows:

<b>Validus Reinsurance, Ltd.</b> (Dollars in thousands)	<b>December 31,</b>	
	<b>2016</b>	<b>2015</b>
<b>Investments</b>		
U.S. government and government agency .....	\$ 562,856	\$ 586,031
Non-U.S. government and government agency .....	118,744	99,736
U.S. states, municipalities and political subdivisions .....	266,484	294,833
Agency residential mortgage-backed securities.....	523,455	502,008
Non-agency residential mortgage-backed securities .....	14,085	26,099
U.S. corporate .....	1,293,078	1,231,520
Non-U.S. corporate .....	258,858	287,273
Bank loans.....	570,399	576,211
Asset-backed securities .....	490,638	404,442
Commercial mortgage-backed securities .....	329,568	258,502
<b>Total fixed maturities.....</b>	<b>4,428,165</b>	<b>4,266,655</b>
<b>Short-term investments .....</b>	<b>117,558</b>	<b>194,051</b>
<b>Other investments</b>		
Fund of hedge funds.....	955	1,417
Hedge funds .....	17,381	20,980
Private equity investments .....	89,810	63,771
Fixed income investment funds .....	197,455	167,910
Mutual funds .....	5,368	7,483
Equities <sup>(b)</sup> .....	90,154	75,864
<b>Total other investments.....</b>	<b>401,123</b>	<b>337,425</b>
<b>Investments in investment affiliates <sup>(a)</sup> .....</b>	<b>100,431</b>	<b>87,673</b>
<b>Total investments.....</b>	<b>\$ 5,047,277</b>	<b>\$ 4,885,804</b>

(a) Validus Reinsurance, Ltd.'s investments in investment affiliates have been treated as equity method investments with the corresponding gains and losses recorded in income as "Income (loss) from investment affiliates."

(b) Equities represent shares of Validus Holdings, Ltd. held by Validus Reinsurance, Ltd.

Validus Holdings, Ltd. (Dollars in thousands)	December 31,	
	2016	2015
<b>Managed investments</b>		
U.S. government and government agency .....	\$ 804,126	\$ 937,202
Non-U.S. government and government agency .....	240,791	237,968
U.S. states, municipalities and political subdivisions .....	271,830	301,289
Agency residential mortgage-backed securities .....	679,595	610,582
Non-agency residential mortgage-backed securities .....	15,477	26,920
U.S. corporate .....	1,534,508	1,489,951
Non-U.S. corporate .....	410,227	446,570
Bank loans .....	570,399	576,211
Asset-backed securities .....	526,814	437,124
Commercial mortgage-backed securities .....	330,932	260,135
<b>Total fixed maturities</b> .....	<b>5,384,699</b>	<b>5,323,952</b>
<b>Short-term investments</b> .....	<b>228,386</b>	<b>237,369</b>
<b>Other investments</b>		
Fund of hedge funds .....	955	1,417
Hedge funds .....	17,381	20,980
Private equity investments .....	89,809	63,771
Fixed income investment funds .....	242,093	188,721
Overseas deposits .....	50,106	54,484
Mutual funds .....	5,368	7,483
<b>Total other investments</b> .....	<b>405,712</b>	<b>336,856</b>
<b>Investments in investment affiliates</b> <sup>(a)</sup> .....	<b>100,431</b>	<b>87,673</b>
<b>Cash and cash equivalents</b> .....	<b>415,419</b>	<b>537,636</b>
<b>Restricted cash</b> .....	<b>15,000</b>	<b>—</b>
<b>Total managed investments</b> .....	<b>\$ 6,549,647</b>	<b>\$ 6,523,486</b>
<b>Non-managed investments</b>		
Catastrophe bonds .....	\$ 158,331	\$ 186,379
Short-term investments .....	2,567,784	1,704,266
Cash and cash equivalents .....	4,557	185,473
Restricted cash .....	55,956	73,270
<b>Total non-managed investments</b> .....	<b>2,786,628</b>	<b>2,149,388</b>
<b>Total investments</b> .....	<b>\$ 9,336,275</b>	<b>\$ 8,672,874</b>

(a) The Company's investments in investment affiliates have been treated as equity method investments with the corresponding gains and losses recorded in income as "Income (loss) from investment affiliates."

A significant portion of (re)insurance contracts written by the Company provide short-tail reinsurance coverage for losses resulting mainly from natural and man-made catastrophes, which could result in payment of a substantial amount of losses at short notice. Accordingly, the Company's investment portfolio is primarily structured to provide liquidity, which means the investment portfolio contains a significant amount of relatively short-term fixed maturity investments. The Company's IPS specifically requires certain minimum thresholds of cash, short-term investments, and highly-rated fixed maturity securities relative to our consolidated net reserves and estimates of probable maximum loss exposures at the 1 in 100 year threshold to provide necessary liquidity in a wide range of reasonable scenarios. As such, the Company structures its managed cash and investment portfolio to support policyholder reserves and contingent risk exposures with a liquid portfolio of high quality fixed-income investments with a comparable duration profile.

The Company's IPS requires managed investments to have an average duration in the range of 0.75 years to 3.00 years. At December 31, 2016, the average duration of the Company's managed investment portfolio was 2.26 years (December 31, 2015: 2.15 years). This duration is reviewed regularly based on changes in the duration of the Company's liabilities and general market conditions.

The Company's IPS also requires certain minimum credit quality standards for its managed fixed maturity portfolio, including a minimum weighted average portfolio rating of A+ for securities assigned ratings. Further limits on asset classes and security types are also mandated. In addition, the Company stress-tests the downside risks within its asset portfolio using internal and external inputs and stochastic modeling processes to help define and limit asset risks to acceptable levels that are consistent with our overall Enterprise Risk Management ("ERM") framework. As at December 31, 2016, the Company's rated managed fixed maturity portfolio had an average credit quality rating of AA- (December 31, 2015: AA-).

The value of the Company's managed fixed maturity portfolio will fluctuate with, among other factors, changes in the interest rate environment and in overall economic conditions. Additionally, the structure of the Company's overall managed investment portfolio exposes the Company to other risks, including insolvency or reduced credit quality of corporate debt securities, prepayment, default and structural risks on asset-backed securities, mortgage-backed securities and bank loans and liquidity risks on certain other investments, including hedge funds, investment funds and private equity investments.

During the years ended December 31, 2016 and 2015, net investment income was derived from the following sources:

<b>Validus Reinsurance, Ltd.</b> (Dollars in thousands)	<b>Years Ended December 31,</b>	
	<b>2016</b>	<b>2015</b>
<b>Investments</b>		
Fixed maturities and short-term investments.....	\$ 103,674	\$ 91,505
Other investments .....	26,595	13,307
Cash and cash equivalents and restricted cash.....	2,548	375
Dividends from equities.....	2,294	2,098
Securities lending income .....	55	16
Total gross investment income .....	135,166	107,301
Investment expenses .....	(7,334)	(6,266)
<b>Total net investment income</b> .....	<b>\$ 127,832</b>	<b>\$ 101,035</b>

<b>Validus Holdings, Ltd.</b> (Dollars in thousands)	<b>Years Ended December 31,</b>	
	<b>2016</b>	<b>2015</b>
<b>Managed investments</b>		
Fixed maturities and short-term investments.....	\$ 119,085	\$ 113,627
Other investments .....	27,860	13,307
Cash and cash equivalents and restricted cash.....	2,939	1,911
Securities lending income .....	55	16
Total gross investment income.....	149,939	128,861
Investment expenses .....	(8,221)	(7,695)
<b>Total managed net investment income</b> .....	<b>\$ 141,718</b>	<b>\$ 121,166</b>
<b>Non managed investments</b>		
Fixed maturities and short-term investments.....	\$ 6,931	\$ 6,528
Cash and cash equivalents and restricted cash.....	1,736	130
<b>Total non-managed net investment income</b> .....	<b>8,667</b>	<b>6,658</b>
<b>Total net investment income</b> .....	<b>\$ 150,385</b>	<b>\$ 127,824</b>

The Company's managed net investment income for the years ended December 31, 2016 and 2015 was \$141.7 million and \$121.2 million, respectively. The increase of \$20.6 million during the year ended December 31, 2016 as compared to 2015 was primarily driven by returns on the Company's portfolio of structured securities, of which \$16.7 million was generated from a single fixed income fund. Managed net investment income from other investments includes distributed and undistributed net income from certain investment funds.

The Company's managed yield-bearing portfolio had an effective yield of 2.24% and 1.91% for the years ended December 31, 2016 and 2015, respectively. Investment yield is calculated by dividing total managed net investment income by the average balance of the yield bearing assets managed by the Company's portfolio managers. Average assets for the period ended is the average of the beginning, ending and intervening quarter end asset balances.



### **Details of Material Income and Expenses for the Years Ended December 31, 2016 and 2015**

The below tables provide summaries of Validus Reinsurance, Ltd.'s and the Company's material income and expenses line items for the years ended December 31, 2016 and 2015:

<b>Validus Reinsurance, Ltd.</b> (Dollars in thousands)	<b>Years Ended December 31,</b>	
	<b>2016</b>	<b>2015</b>
<b>Revenues</b>		
Gross premiums written.....	\$ 2,325,197	\$ 1,649,105
Net investment income .....	127,832	101,035
<b>Expenses</b>		
Losses and loss expenses:		
Current period excluding items below .....	1,148,377	793,691
Current period—notable loss events.....	41,812	72,470
Current period—non-notable loss events .....	43,512	17,556
Change in prior accident years.....	(213,456)	(174,695)
Total losses and loss expenses .....	1,020,245	709,022
Policy acquisition costs.....	579,850	299,344
General and administrative expenses.....	161,330	162,569

<b>Validus Holdings, Ltd.</b> (Dollars in thousands)	<b>Years Ended December 31,</b>	
	<b>2016</b>	<b>2015</b>
<b>Revenues</b>		
Gross premiums written .....	\$ 2,648,705	\$ 2,557,506
Net investment income .....	150,385	127,824
<b>Expenses</b>		
Losses and loss expenses:		
Current period excluding items below .....	1,120,841	1,164,775
Current period—notable loss events .....	90,211	96,964
Current period—non-notable loss events .....	70,237	22,231
Change in prior accident years .....	(216,192)	(306,137)
Total losses and loss expenses.....	1,065,097	977,833
Policy acquisition costs .....	449,482	410,058
General and administrative expenses .....	336,294	363,709

Highlights for the Company for the year ended December 31, 2016 and 2015 were as follows:

Gross premiums written for the year ended December 31, 2016 were \$2,648.7 million compared to \$2,557.5 million for the year ended December 31, 2015, an increase of \$91.2 million, or 3.6%. The increase in gross premiums written was primarily driven by an increase in the AlphaCat and Western World segments and was partially offset by a decrease in the Validus Re and Talbot segments.

Losses and loss expenses for the years ended December 31, 2016 and 2015 were \$1,065.1 million and \$977.8 million, respectively.

### Notable and Non-notable Loss Events

The Company defines a notable loss event as an event whereby consolidated net losses and loss expenses aggregate to a threshold greater than or equal to \$30.0 million. The Company defines a non-notable loss event as an event whereby consolidated net losses and loss expenses aggregate to a threshold greater than or equal to \$15.0 million but less than \$30.0 million.

Losses and loss expenses arising from notable and non-notable loss events occurring during the years ended December 31, 2016 and 2015 are set out in the tables below:

(Dollars in thousands)	Year Ended December 31, 2016							
	Notable Loss Events			Non-notable Loss Events				Total
	Canadian Wildfires	Hurricane Matthew	2016 New Zealand Earthquake	Texas Hailstorms	Kumamoto Earthquake	Jubilee Oil	SpaceX	
<b>Net Losses and Loss Expenses</b> ....	\$ 19,650	\$ 39,140	\$ 31,421	\$ 19,305	\$ 15,480	\$ 15,213	\$ 20,239	\$ 160,448
Less: Net Losses and Loss Expenses Attributable to AlphaCat Third Party Investors and Noncontrolling Interests.....	(3,696)	(8,943)	(9,068)	(5,638)	—	—	—	(27,345)
<b>Validus' Share of Net Losses and Loss Expenses</b> .....	15,954	30,197	22,353	13,667	15,480	15,213	20,239	133,103
Less: Reinstatement Premiums, net.....	(1,496)	(2,781)	(65)	(2,108)	—	(8,942)	(1,510)	(16,902)
<b>Net Loss Attributable to Validus</b> .....	\$ 14,458	\$ 27,416	\$ 22,288	\$ 11,559	\$ 15,480	\$ 6,271	\$ 18,729	\$ 116,201

For the year ended December 31, 2016, losses and loss expenses from the three notable loss events were \$90.2 million, or 4.0 percentage points of the loss ratio. Net of losses attributable to AlphaCat investors and noncontrolling interests of \$21.7 million and reinstatement premiums of \$4.3 million, the net loss attributable to the Company from these notable loss events was \$64.2 million. Losses and loss expenses from the four non-notable loss events were \$70.2 million, or 3.1 percentage points of the loss ratio. Net of losses attributable to AlphaCat investors and noncontrolling interests of \$5.6 million and reinstatement premiums of \$12.6 million, the net loss attributable to the Company from these non-notable loss events was \$52.0 million.

(Dollars in thousands)	Year Ended December 31, 2015			
	Notable Loss Events		Non-notable Loss Event	Total
	Tianjin	Pemex	2015 Chilean Earthquake	
<b>Net Losses and Loss Expenses</b> .....	\$ 47,427	\$ 49,537	\$ 22,231	\$ 119,195
Less: Reinstatement Premiums, net.....	(3,896)	2,130	(2,200)	(3,966)
<b>Net Loss Attributable to Validus</b> .....	\$ 43,531	\$ 51,667	\$ 20,031	\$ 115,229

For the year ended December 31, 2015, losses and loss expenses from the two notable loss events were \$97.0 million, or 4.3 percentage points of the loss ratio. Net of reinstatement premiums of \$1.8 million, the net loss attributable to the Company from these notable loss events was \$95.2 million. Losses and loss expenses from a single non-notable loss event were \$22.2 million, or 1.0 percentage point of the loss ratio. Net of reinstatement premiums of \$2.2 million, the net loss attributable to the Company from this non-notable loss event was \$20.0 million.

### Change in prior accident years

Loss reserve development on prior years was as follows:

(Dollars in thousands)	Years Ended December 31,	
	2016	2015
(Favorable) development on events .....	\$ (14,394)	\$ (52,196)
(Favorable) development on attritional losses .....	(201,797)	(253,941)
<b>Change in prior accident years</b> .....	\$ (216,191)	\$ (306,137)

The favorable development on events in 2016 primarily related to favorable development on the 2015 Chilean Earthquake non-notable loss event and the 2015 Tianjin port explosion notable loss event and was partially offset by adverse development

established following the receipt of a loss advice on an individual marine policy that incepted during the second half of 2015. The favorable development on events in 2015 primarily related to favorable development on Superstorm Sandy.

Policy acquisition costs for the years ended December 31, 2016 and 2015 were \$449.5 million and \$410.1 million, respectively.

General and administrative expenses for the years ended December 31, 2016 and 2015 were \$336.3 million and \$363.7 million, respectively. The decrease in general and administrative expenses was primarily attributable to a reduction in the performance bonus accrual during the year, favorable movement in foreign exchange rates resulting in lower year on year expenses as well as overall reductions in other operating expenses.

**h. Any other material information**

None

## 2. GOVERNANCE STRUCTURE

### a. Parent Board and Senior Management

#### i. Description of the structure of the parent board and its senior executive, the roles, responsibilities and segregation of these responsibilities

Edward J. Noonan is the Chairman of the Board of Directors (sometimes referred to herein as the “Board”) and the Company’s CEO. The Company believes that this unitary leadership structure provides, among other things, more effective leadership for a growth company. As such, the Company believes that under this structure the CEO is able to respond more quickly to market conditions. The importance of the ability to act swiftly and decisively is apparent in situations such as business development and the addition of business teams and talented professionals where decisions have to be made within a very short period of time. As the Company is still at a growth stage of life, unitary leadership helps to lower the costs of information transfer from the CEO to the Chairman and enhances swift decision making in such a dynamic environment. In addition to his broad experience as both an executive and Director/Chairman in the global insurance and reinsurance industries, the CEO also has specialized knowledge regarding the strategic challenges and opportunities facing the Company that is valuable to the Chairman’s job. The Company believes, therefore, that it is appropriate for the CEO, the person most familiar with these challenges and strategies, to lead discussions with the Board. In addition, the Company’s experienced outside and independent Board also acts as a counter-balance to any potential over influence that this unitary leadership structure might present.

In order to further counter-balance this leadership structure, in connection with each regularly scheduled meeting of the Board, the non-management Directors meet in executive session without any member of management in attendance. The Board considers annually the selection of a non-management Director to serve as presiding Director at executive sessions of non-management Directors. Mr. Greenberg is the non-management Director whom the Board has selected to preside over these sessions. In addition, the independent Directors meet as a group at least annually.

The Company’s Bye-laws provide that the Board shall consist of not less than nine nor more than 12 members as determined by resolution of the Board, divided into three classes, designated “Class I,” “Class II” and “Class III,” with each class consisting as nearly as possible of one-third of the total number of Directors constituting the entire Board of Directors.

The term of office for each Director in Class I expires at the 2017 Annual General Meeting; the term of office for each Director in Class II expires at the 2018 Annual General Meeting; and the term of office for each Director in Class III expires at the 2019 Annual General Meeting of the Company. At each Annual General Meeting, the successors of the class of Directors whose term expires at that meeting shall be elected to hold office for a term expiring at the Annual General Meeting to be held in the third year of their election. In 2016, there were 4 meetings of the Board. All incumbent Directors attended at least 75% of such meetings and of the meetings held by all committees of the Board of which they were a member. All then incumbent directors attended the 2016 Annual General Meeting. The Company expects all of the Directors to attend the 2017 Annual General Meeting.

The Board has established an Audit Committee, a Compensation Committee, an Executive Committee, a Finance Committee, a Corporate Governance and Nominating Committee and a Risk Committee. Under the applicable requirements of the NYSE, each of the Audit, Compensation and Corporate Governance and Nominating Committees consists exclusively of members who qualify as independent directors.

Copies of the charters for the Audit Committee, the Compensation Committee, the Corporate Governance and Nominating Committee, the Finance Committee and the Risk Committee, as well as the Company’s Corporate Governance Guidelines, Code of Business Conduct and Ethics for Directors, Officers and Employees, which applies to all of the Company’s directors, officers and employees, and Code of Ethics for Senior Officers, which applies to the Company’s principal executive officer, principal accounting officer and other persons holding a comparable position, are available free of charge on the Company’s website located at [www.validusholdings.com](http://www.validusholdings.com) or by writing to Investor Relations, Validus Holdings, Ltd., 29 Richmond Road, Pembroke, HM 08, Bermuda. The Company will post on its website any amendment to or waiver under the Code of Business Conduct and Ethics for Directors, Officers and Employees or the Code of Ethics for Senior Officers granted to any of its Directors or executive officers that relates to any element of the code of ethics definition set forth in Item 406 of Regulation S-K of the Securities Act of 1933, as amended.

#### ii. Description of remuneration policy and practices and performance-based criteria governing the parent board, and its senior executives and employees

##### *Board of Directors*

##### **Cash Compensation**

Our non-employee, non-founder related Directors, each receive an annual retainer for serving as a Director and a set fee for each Board meeting that such Director attended. In addition, Directors receive a fee for each committee meeting that they attended.

Certain directors who chair our Finance, Audit, Risk, Compensation, Executive and Corporate Governance and Nominating Committees receive additional annual retainer fees. Pursuant to our Director Stock Compensation Plan, Directors are able to elect to receive their annual retainers in the form of our common shares or to defer their annual retainers into share units (other than in the case where such a deferral would be subject to U.S. income tax). In addition, we reimburse each of our Directors for all reasonable expenses in connection with the attendance of meetings of our Board of Directors and any committees thereof.

### **Equity Based Compensation**

We have a Director Stock Compensation Plan. Our Director Stock Compensation Plan is designed to attract, retain and motivate members and potential members of our Board of Directors. Under this plan, each Director may make an election in writing on or prior to each December 31 to receive his or her annual retainer fees payable in the following plan year in the form of shares instead of cash. The number of shares distributed in case of election under the plan is equal to the amount of the annual retainer fee otherwise payable on such payment date divided by 100% of the fair market value of a share on such payment date.

### ***Executive Officers***

Our compensation program is designed to motivate executives to maximize the creation of shareholder value, therefore aligning, as much as possible, our named executive officers' rewards with our shareholders' interests. Our compensation program is composed of three principal components:

- Salary and benefits;
- Annual incentive compensation (annual incentive award); and
- Long-term incentive compensation typically in the form of time vested and/or performance based restricted shares.

Our compensation plans are intended to offer opportunities that are competitive with our peer group and consistent with the Company's relative performance over time. In addition, we want our rewards to accommodate the risk and cyclicity of our business. At the time the Company negotiated its employment agreements with the named executive officers, the Company undertook to implement a performance based compensation strategy. To that end, the Company's compensation package includes a fixed component consisting of salary and benefits and two variable components consisting of annual incentive compensation and long-term incentive compensation. To better implement this strategy, a greater emphasis is placed on the variable elements that relate to performance and less of an emphasis is placed on the fixed elements of compensation that do not.

Our Chief Executive Officer makes recommendations to the Compensation Committee with respect to the compensation of our named executive officers other than himself. Our Compensation Committee reviews and, if appropriate, approves the compensation recommendation made for each of our named executive officers and determines the compensation for our Chief Executive Officer. In 2016, the annual incentive compensation for each of our named executive officers was primarily based on the results of the reporting segment in which their respective services were rendered, Validus Re, AlphaCat, Talbot, Western World or Corporate and, with respect to the Company's operating segments, also based 35% on the results of the Corporate segment.

The Compensation Committee designs the Company's compensation plans to be competitive with its peers in order to attract and retain talented individuals. The Compensation Committee regularly performs a review of the Company's compensation practices relative to the Company's peer group. In addition, the Compensation Committee has in the past engaged consultants to provide market data and to assist it in determining appropriate types and levels of compensation. The companies included in the Company's 2016 peer group were: Allied World Assurance Company Holdings, Ltd., Arch Capital Group Ltd., Argo Group International Holdings, Ltd., Aspen Insurance Holdings Limited, Axis Capital Holdings Limited, Endurance Specialty Holdings Ltd., Everest Re Group, Ltd. and RenaissanceRe Holdings Ltd.

### ***Employees***

The Company's compensation package includes a fixed component consisting of salary and benefits and two variable components consisting of annual incentive compensation and long-term incentive compensation, which vary in accordance with the performance of both the Company and individual. Each department head makes recommendations to the Chief Executive Officer with respect to the compensation of employees other than themselves. Our Chief Executive Officer reviews, and if appropriate, approves the compensation recommendations made for each employee and determines the compensation for our department heads. In addition, the Compensation Committee of the Board of Directors reviews and approves all employee incentive compensation.

In 2016, the annual incentive compensation for each employee was primarily based on the results of the reporting segment in which their respective services were rendered, Validus Re, AlphaCat, Talbot, Western World or Corporate and, with respect to the Company's operating segments, also based 35% on the results of the Corporate segment.

### **iii. Description of the supplementary pension or early retirement schemes for members of the insurance group, the parent board and its senior executives**

The Company does not maintain a defined benefit pension or retirement plan for our named executive officers. The Company provides pension benefits to eligible employees through various plans which are managed externally and sponsored by the Company. The Company's contributions are expensed as incurred.

Senior executives and retired selected key employees of Western World participate in non-qualified, unfunded, defined benefit plans. Benefits for these plans are based on final average earnings, social security benefits earned at retirement date and years of service.

### **iv. Material transactions with shareholder controllers, persons who exercise significant influence, the parent board or its senior executives**

At December 31, 2016 and 2015, Validus Reinsurance, Ltd. held fixed maturity investments of \$60.2 million relating to the repurchase of principal amounts of the Company's 2007 Junior Subordinated Deferrable Debentures due 2037, which generated net investment income of \$2.2 million during the year ended December 31, 2016 (2015: \$2.0 million).

Validus Reinsurance, Ltd. also held other investments representing shares of the Company with a fair value of \$90.2 million at December 31, 2016 (December 31, 2015: \$75.9 million), which generated net investment income of \$2.3 million during the year ended December 31, 2016 (2015: \$2.1 million). The net change in unrealized gains on this investment was \$14.3 million during the year ended December 31, 2016 (2015: \$7.8 million).

Furthermore, distributions from Validus Reinsurance, Ltd. to the Company were \$290.0 million during the year ended December 31, 2016 (2015: \$380.0 million).

The Company announced four quarterly cash dividends of \$0.35 per common share during the year ended December 31, 2016 (2015: \$0.32). These dividends were paid on March 31, 2016, June 30, 2016, September 30, 2016 and December 30, 2016 to holders of record on March 15, 2016, June 15, 2016, September 15, 2016 and December 15, 2016, respectively.

During the quarter ended September 30, 2016, the Company declared and paid a cash dividend on its outstanding Series A Preferred Shares of \$0.3753472 per depositary share for the period June 13, 2016 to September 15, 2016. In addition, during the quarter ended December 31, 2016, the Company declared and paid a cash dividend of \$0.3671875 per depositary share. These dividends were paid on September 15, 2016 and December 15, 2016, to holders of record on September 1, 2016 and December 1, 2016, respectively.

The Company has disclosed in "Note 24 - Related Party Transactions" in its 2016 Annual Report on Form 10-K all material transactions it entered into with related parties during the years ended December 31, 2016 and 2015.

## **b. Fitness and Propriety Requirements**

### **i. Description of the fit and proper process in assessing the parent board and senior executives**

#### ***Board Members***

The Corporate Governance and Nominating Committee ("CGNC") assists the Board in (i) identifying individuals qualified to become board members or members of the committees of the Board, and recommending individuals that the Board of Directors selects as director nominees to be considered for election at the next annual general meeting of shareholders or to fill vacancies; (ii) developing and recommending to the Board appropriate corporate governance guidelines; and (iii) overseeing the evaluation of the Board, management and the Board committees and taking a leadership role in shaping the Company's corporate governance policies. Each member of the CGNC is "independent" within the meaning of the rules of the NYSE. The duties and responsibilities of the CGNC are set forth in the committee's charter.

*Identifying and Evaluating Nominees.* The CGNC is responsible for reviewing with the Board, on an annual basis, the skills and characteristics appropriate for new Board members as well as an assessment of the skills and characteristics of the Board as a whole. While there is no formal policy with respect to diversity of board members, when seeking a new member or evaluating the current membership, the CGNC works with the Board to determine the appropriate characteristics, skills and experiences for the Board as a whole and its individual members. Characteristics expected of all directors include independence, integrity, high personal and professional ethics, sound business judgment, and the ability and willingness to commit sufficient time to the Board. In evaluating the suitability of individual Board members, the CGNC takes into account many factors, including a candidate's experiences in and understanding of, the (re)insurance industry, corporate finance and investments as well as his or her business, educational and professional background. When the Board determines to seek a new member, whether to fill a vacancy or otherwise, the CGNC may employ third-party search firms and will consider recommendations from Board members, management and others,

including shareholders. The committee has recently undertaken a review of the current composition of the Board with the objective of increasing the percentage of independent directors.

*Nominees Recommended by Shareholders.* The CGNC will consider, for Director nominees, persons recommended by Shareholders, who may submit recommendations to the CGNC in care of the General Counsel at Validus Holdings, Ltd., 29 Richmond Road, Pembroke, HM 08, Bermuda. To be considered by the CGNC, such recommendations must be accompanied by a description of the qualifications of the proposed candidate and a written statement from the proposed candidate to the effect that he or she is willing to be nominated and desires to serve if elected. Nominees for Director who are recommended by Shareholders to the CGNC will be evaluated in the same manner as any other nominee for Director.

### ***Senior Executives***

The Group CEO is authorised by the Board to ensure the Group has appropriate skills, knowledge and experience in its Executive Officers to fulfil the strategic plans and day to day operation of the Group. To this end the Group CEO, working with the Group Director of Human Resources (“HR”) (and any other senior key stakeholder) will define the role and seek suitable candidates either directly or through an engaged third party partner. Once a suitable shortlist of candidates has been presented, an assessment and selection process will take place that will involve candidates being interviewed by the Group CEO, Group Director of HR and other key stakeholders. An independent third party may also be involved in the assessment process. Once a suitable candidate has been selected the Group HR function will make the offer of employment (following the agreement of the Group CEO and Chair of the Compensation Committee). Once the offer has been accepted the Group HR function will carry out appropriate pre-employment background checks (that might include criminal record, financial, employment and education history) and engage with the local governance executive to ensure all appropriate regulatory approvals are obtained. Finally, a programme of induction will be implemented once the candidate has joined the business to ensure they are fully integrated/on boarded within the first three months of their employment.

## **ii. Description of professional qualifications, skills and expertise of the parent board and its senior executives to carry out their functions**

### Validus Holdings, Ltd.

Below are details of the Board and Senior Executives for the Company, along with their qualifications, skills and expertise:

#### ***Board***

*Edward J. Noonan*, age 58, has been Chairman of our Board and the Chief Executive Officer of the Company since its formation. Mr. Noonan has over 30 years of experience in the insurance and reinsurance industry, serving most recently as the acting chief executive officer of Global Indemnity Ltd. (Nasdaq: GBLI) from February 2005 through October 2005 and as a member of the board of directors from December 2003 to May 2007. Mr. Noonan served as president and chief executive officer of American Re-Insurance Company from 1997 to 2002, having joined American Re in 1983. Mr. Noonan also served as chairman of Inter-Ocean Reinsurance Holdings of Hamilton, Bermuda from 1997 to 2002. Prior to joining American Re, Mr. Noonan worked at Swiss Reinsurance from 1979 to 1983. Mr. Noonan currently serves as a director of Central Mutual Insurance Company. The specific experience, qualifications, attributes and skills that led to the conclusion that Mr. Noonan should serve as a director, as of the date hereof, are as follows: Mr. Noonan has extensive experience in the global (re)insurance industry. Mr. Noonan has also served as a director of insurance and reinsurance companies, including serving as audit committee chair and board chairperson.

*John J. Hendrickson*, age 56, has been a Director of the Company since its formation. In February 2013 Mr. Hendrickson joined Validus as Director of Strategy, Risk Management and Corporate Development. Prior to this, Mr. Hendrickson was the Founder and Managing Partner of SFRi LLC, an independent investment and advisory firm specializing in the insurance industry. From 1995 to 2004, Mr. Hendrickson held various positions with Swiss Re, including as a Member of the Executive Board, Head of Capital Partners (Swiss Re’s Merchant Banking Division), and Managing Partner of Securitas Capital. From 1985 to 1995, Mr. Hendrickson was with Smith Barney, the U.S. investment banking firm. The specific experience, qualifications, attributes and skills that led to the conclusion that Mr. Hendrickson should serve as a director, as of the date hereof, are as follows: Mr. Hendrickson has extensive experience as an investment banker, investor and executive in the global (re)insurance industry. Mr. Hendrickson has also served as a director of insurance and reinsurance companies, including serving as audit committee chair.

*Mahmoud Abdallah*, age 68, has served as a Director since May 2012. Mr. Abdallah currently serves as Managing Partner of MMA Global Investments LLC, an investment and advisory firm, a position he had held since July 2012. Mr. Abdallah also served as the Chairman and Chief Executive Officer of MISR Insurance Holding Company (MIHC), Cairo Egypt, from 2006 to 2012. Mr. Abdallah has over 30 years of experience in the insurance industry. His experience includes International Reinsurance, Direct Insurance Broking, Mergers and Acquisitions Consulting, Private-Public Globalization Initiatives, and Privatization of Government owned Insurance Operations. He has also twice served as Chairman of the International Insurance Council and currently is a member of the National Council for Arts and Sciences at George Washington University. Mr. Abdallah is also a Board member

of Egypt Air, HSBC Egypt and the Metropolitan Opera in New York. The specific experience, qualifications, attributes and skills that led to the conclusion that Mr. Abdallah should serve as a director, as of the date hereof, are as follows: Mr. Abdallah has extensive experience in the global insurance and reinsurance industry and international finance as well as serving as a director of other financial services companies.

*Michael E.A. Carpenter*, age 67, was appointed as a Director of the Company in August 2011. Mr. Carpenter joined Talbot in June 2001 as its Chief Executive Officer. Following the sale of Talbot to the Company in the summer of 2007, Mr. Carpenter was appointed as non-executive Chairman of Talbot. Prior to joining Talbot in 2001, Mr. Carpenter served as finance director and managing director of Limit plc, the UK listed Lloyd's group now part of QBE, from 1993 to 2000. Mr. Carpenter is a graduate of Cambridge University, a Member of the Chartered Institute for Securities & Investment (CISI) and a Fellow of the Institute of Chartered Accountants (FCA). The specific experience, qualifications, attributes and skills that led to the conclusion that Mr. Carpenter should serve as a director, as of the date hereof, are as follows: Mr. Carpenter has extensive experience in the global financial services industry, a professional background as a chartered accountant and significant expertise in Lloyd's of London.

*Matthew J. Grayson*, age 55, has been a Director of the Company since its formation. Mr. Grayson also currently serves as a director on certain of the Company's affiliated AlphaCat Funds. Since 2011, Mr. Grayson has served as a principal of the Welder Reserve Fund I, GP, an oil and gas asset management firm, and is also a director of Kapuna Pharmacy Group, Inc., Salient CRGT Holdings, Inc., and is a principal of Telaraña Land & Cattle Company, LLC. Mr. Grayson is also a member of the President's Counsel of Ducks Unlimited. From 2005 through 2010, Mr. Grayson served as a senior principal of Aquiline. Mr. Grayson has 33 years' experience in the financial services industry. In 1998, following a career in investment banking, corporate finance and capital markets, Mr. Grayson co-founded Venturion Capital, a private equity firm that specialized in global financial services companies. In 2005, Venturion Capital's professionals joined with Jeffrey W. Greenberg, along with others, to form Aquiline. The specific experience, qualifications, attributes and skills that led to the conclusion that Mr. Grayson should serve as a director, as of the date hereof, are as follows: Mr. Grayson has extensive experience as a banker and investor in the global (re)insurance industry. Mr. Grayson is also experienced in investment portfolio oversight and corporate finance.

*Jeffrey W. Greenberg*, age 65, has been a Director of the Company since its formation. He also serves as the managing principal of Aquiline, which he founded in 2005. Mr. Greenberg served as chairman and chief executive officer of Marsh & McLennan Companies, Inc. from 2000 to 2004. From 1996 to 2004, Mr. Greenberg was the chairman of MMC Capital, the manager of the Trident Funds. He previously served as a director of Ace, Inc. and as Chairman of Conning Holdings, Inc. Mr. Greenberg has also previously served as a senior executive of AIG, where he was employed from 1978 to 1995. Mr. Greenberg is also Chairman of Conning Holdings Inc. The specific experience, qualifications, attributes and skills that led to the conclusion that Mr. Greenberg should serve as a director, as of the date hereof, are as follows: Mr. Greenberg has extensive executive experience in the global (re)insurance and insurance brokerage businesses. Additionally, Mr. Greenberg has very extensive experience as an investor and director of Bermuda based (re)insurance companies.

*Jean-Marie Nessi*, age 67, has been a Director of the Company since its formation and has 39 years of experience in the reinsurance industry. He has been a non-executive director of AIG Europe Limited since 2012 and also served as a director of Matmut Enterprises from 2007 to 2013. Mr. Nessi has also served as the head of Aon Global Risk Consulting at Aon France from October 2008 to January 2009. Mr. Nessi served as Chairman and CEO of NessPa Holding from January 2006 to September 2008 and as the head of the property and casualty business unit for PartnerRe Global, a subsidiary of PartnerRe SA, from February 2003 to February 2006. He was appointed Chairman of PartnerRe SA in June of 2003. Prior to PartnerRe, Mr. Nessi led AXA Corporate Solutions, the successor company to AXA Ré and AXA Global Risk. The specific experience, qualifications, attributes and skills that led to the conclusion that Mr. Nessi should serve as a director, as of the date hereof, are as follows: Mr. Nessi has extensive experience in leadership positions in the global (re)insurance industry. Mr. Nessi also has significant expertise in (re)insurance company reserving and financial accounting.

*Mandakini Puri*, age 57, has been a Director of the Company since its formation. Since December 2016, Ms. Puri has also served on the board of trustees of Vornado Realty Trust (NYSE: VNO). From May of 2011 until retiring in May of 2013, Ms. Puri served as a Managing Director of BlackRock Global Private Equity. She also served as a consultant to Bank of America/Merrill Lynch Global Private Equity ("MLGPE") from April 2009 until April 2011. From 1994 through 2009, Ms. Puri served as a senior vice president with MLGPE, where she was the Chief Investment Officer. Ms. Puri had been part of Merrill Lynch's private equity business since 1994, prior to which she was a Director in the High Yield Finance & Restructuring Group at Merrill. Ms. Puri joined Merrill Lynch in 1986. The specific experience, qualifications, attributes and skills that led to the conclusion that Ms. Puri should serve as a director, as of the date hereof, are as follows: Ms. Puri has extensive experience as an investor and Director of Bermuda based (re)insurance companies that specialize in catastrophe risk. Ms. Puri also has broad expertise in fixed income investments and corporate finance.

*Gail Ross*, age 64, has been a Director of the Company since May 2016. Ms. Ross, who is currently retired since 2015, is a seasoned (re)insurance professional with nearly forty years in the industry. She has had extensive experience as a consultant focusing on mergers and acquisitions, operational best-practices and valuations of property/casualty (re)insurance companies



around the world. From 2003 through 2015, Ms. Ross served as a Principal and Consulting Actuary of Milliman, Inc., a global insurance consulting firm. Prior to joining Milliman, Ms. Ross served from 1995 through 2002 as Vice President and Consulting Actuary with Am-Re Consultants, Inc. and from 1985 to 1994 as a Principal and Consulting Actuary with Tillinghast. Ms. Ross began her career in 1976 as an underwriter and actuarial assistant with Travelers Insurance Company. Ms. Ross is a Fellow of the Casualty Actuarial Society (CAS) and a Member of the American Academy of Actuaries (MAAA). She is a past President of the CAS and served as the Chair of the CAS Board of Directors. The specific experience, qualifications, attributes, and skills that led to the conclusion that Ms. Ross should serve as a director, as of the date hereof, are as follows: Ms. Ross has a broad perspective on global (re)insurance industry financial and operational processes and best practices. She also has extensive experience in assessing policy, strategy and execution within the property/casualty (re)insurance industry.

*Therese M. (Terri) Vaughan*, age 60, has been a Director of the Company since May 2013. Since September 2014, Ms. Vaughan has served as the Dean of the College of Business and Public Administration at Drake University. Ms. Vaughan served as Chief Executive Officer of the National Association of Insurance Commissioners (NAIC) from 2009 to 2012 where she oversaw operations and navigated the company through a significant period of financial regulatory reform. Previously, Ms. Vaughan served as the Iowa Insurance Commissioner and is a past NAIC President. She has also held academic positions, including the Robb B. Kelley Distinguished Professor of Insurance and Actuarial Science at Drake University, and co-authored two college textbooks on insurance. Ms. Vaughan earned a Ph.D. in risk and insurance at the University of Pennsylvania and a B.B.A. in insurance and economics at the University of Iowa. She is a CPCU, an Associate of the Society of Actuaries, an Associate of the Casualty Actuarial Society, and a member of the American Academy of Actuaries. She also serves on the Board of Verisk Analytics (NASDAQ: VRSK), a provider of risk-assessment services and decision analytics. The specific experience, qualifications, attributes and skills that led to the conclusion that Ms. Vaughan should serve as a director, as of the date hereof, are as follows: Ms. Vaughan has significant experience in the field of insurance regulation. Ms. Vaughan also has extensive risk and insurance related academic credentials including in the field of actuarial science.

*Christopher E. Watson*, age 66, has been a Director of the Company since its formation. He also serves as a senior principal of Aquiline Capital Partners LLC (“Aquiline”), which he joined in 2006. Mr. Watson has more than 35 years of experience in the financial services industry. From 1987 to 2004, Mr. Watson served in a variety of executive roles within the property & casualty insurance businesses of Citigroup and its predecessor entities. From 1990 to 2004, Mr. Watson was president and chief executive officer of Gulf Insurance Group, one of the largest surplus lines insurance companies in the world. Mr. Watson served as a senior executive of AIG from 1974 to 1987. Mr. Watson is also a director of Group Ark Insurance Holdings Ltd., a Bermuda-based underwriter of insurance and reinsurance risks in the Lloyd’s market, and Beach UK Holding Co., a reinsurance broker in the UK, US, and Canada. In addition, Mr. Watson serves on the Board of Worley Claim Service, LLC., a claim adjusting firm focused on catastrophe events. The specific experience, qualifications, attributes and skills that led to the conclusion that Mr. Watson should serve as a director, as of the date hereof, are as follows: Mr. Watson has extensive experience as an executive in the global (re)insurance industry. Mr. Watson also has applicable experience as an investor in and Director of a Lloyd’s of London syndicate.

***Executive Officers (excluding those officers who are members of the Company’s Board of Directors)***

*Jeffrey D. Sangster*, age 44, has served as Executive Vice President and Chief Financial Officer of the Company since February 2013. Mr. Sangster joined the Company in October 2006 and has served in various finance positions during that time, including Chief Accounting Officer and Chief Financial Officer of Validus Reinsurance, Ltd. Mr. Sangster has 19 years of experience in the reinsurance industry and was previously with Endurance, Centre Group and Ernst & Young. Mr. Sangster is a Chartered Accountant and a member of the Chartered Professional Accountants of Bermuda and the Chartered Professional Accountants of Manitoba.

*Peter Bilsby*, age 47, currently serves as Chief Executive Officer of Talbot. Prior to this, Mr. Bilsby served as Managing Director of Talbot. Mr. Bilsby joined Talbot as Head of Global Aerospace from XL London Market Ltd. in September 2009 and served as Director of Underwriting until his appointment as Managing Director in November 2013. Peter Bilsby has almost 30 years’ experience in the insurance market.

*Patrick Boisvert*, age 43, was appointed Executive Vice President and Chief Accounting Officer of the Company in July 2016. Prior to his role, he was Managing Director & Chief Financial Officer of Validus Reinsurance (Switzerland) Ltd. Before joining Validus in 2013, Mr. Boisvert was Chief Financial Officer of Flagstone Reinsurance Holdings SA from 2008 to 2012 and Chief Accounting Officer and Treasurer from 2006 to 2008. Prior to joining Flagstone, he was Vice President Fund Administration for BISYS Hedge Fund Services. Mr. Boisvert began his career in 1995 with Ernst & Young in Montreal, Canada. He holds a Bachelor in Accounting from Université du Québec à Trois-Rivieres, is a member of the C.F.A. Institute and a member of the Chartered Professional Accountants of Canada.

*Kean D. Driscoll*, age 43, is the Chief Executive Officer of Validus Reinsurance, Ltd., the reinsurance segment for the Validus Group. He was a founding member of the Company, and previously served as Chief Underwriting Officer. Mr. Driscoll has over 20 years of experience as a reinsurance underwriter, and was previously with Quanta Re, and Zurich Re N.A. (Converium). Mr.

Driscoll holds a B.A. in Literature from Colgate University and an M.B.A. from Columbia University, where he graduated with Honors.

*Andrew E. Kudera*, age 57, has served as Chief Actuary of the Company since January 2010. Previously, Mr. Kudera operated an independent actuarial consulting firm which served as corporate actuary and loss reserve specialist for Validus Reinsurance, Ltd. from its inception through to the end of 2008. Prior to establishing his own consulting firm, Mr. Kudera was the Chief Reserving Actuary for Endurance Specialty Holdings Ltd., a large international insurance and reinsurance company. Mr. Kudera has over 35 years of actuarial and financial management experience in the insurance industry in both company and consulting capacities. Mr. Kudera is a Fellow of the Casualty Actuarial Society, a Member of the American Academy of Actuaries, an Associate of the Society of Actuaries, a Fellow of the Canadian Institute of Actuaries and a Fellow of the Institute of Actuaries.

*Robert F. Kuzloski*, age 53, joined the company in January 2009 and served as Executive Vice President and Chief Corporate Legal Officer of the Company until August of 2012 when he was appointed Executive Vice President and General Counsel of the Company. Prior to joining the Company in January of 2009, Mr. Kuzloski served as Senior Vice President and Assistant General Counsel of XL Capital Ltd. Prior to that, Mr. Kuzloski worked as an attorney at the law firm of Cahill Gordon & Reindel LLP where he specialized in general corporate and securities law, mergers and acquisitions and corporate finance.

*Michael R. Moore*, age 47, serves as Executive Vice President and Group Chief Operating Officer of the Company, a position he has held since May 2016, having previously held the position of Chief Accounting Officer since June 2013. Mr. Moore has over 20 years of experience, including 17 years in the insurance and reinsurance industry. Prior to joining Validus, Mr. Moore served as a Senior Vice President, Corporate Operations at Axis Capital, Chief Accounting Officer at Endurance Specialty Holdings Ltd. and as a Senior Manager with Ernst & Young. Mr. Moore received a Bachelor of Commerce, with distinction, from the University of Alberta in 1993 and he is a Chartered Accountant and member of the Chartered Professional Accountants of Bermuda and Chartered Professional Accountants of Canada.

*Romel Salam*, age 50, serves as Executive Vice President and Chief Risk Officer of the Company, a position he has held since April 2013. He was promoted to his current role after serving for three years as Chief Actuary and Chief Risk Officer of Validus Reinsurance, Ltd, the reinsurance arm of Validus Group. Prior to joining the Company in 2010, Mr. Salam was a Senior Vice President at Transatlantic Reinsurance where he spent 20 years in positions of increasing responsibility. Mr. Salam is a Fellow of the Casualty of Actuarial Society and a Member of the American Academy of Actuaries.

*Jonathan P. Ritz*, age 49, serves as Chief Executive Officer of Validus Specialty, a position he has held since May 2016, having previously held the position of Chief Operating Officer since October 2010. Mr. Ritz has over 20 years of experience in the (re)insurance and brokerage industries. Most recently, Mr. Ritz served as Chief Operating Officer of IFG Companies-Burlington Insurance Group. Prior to IFG, Mr. Ritz served as Chief Operating Officer of the specialty lines division of ICAT Holdings LLC. From 2007 to 2008, Mr. Ritz was a Managing Director at Guy Carpenter and from 1997 to 2007 he held various positions with United America Insurance Group including Chief Operating Officer and Senior Vice President of ceded reinsurance.

*Lixin Zeng, Ph.D., CFA*, age 48, serves as Chief Executive Officer of AlphaCat Managers Ltd. and has played a key role in the Manager since its formation in 2008. Prior to this role, he was Executive Risk Officer of Validus Reinsurance Ltd, responsible for developing and executing the catastrophe risk strategy of the entire Validus Group. Dr. Zeng was one of the original employees at the founding of Validus in 2005. His prior positions include: Chief Catastrophe Risk Officer at the ACE Group from 2004 to 2005, Head of Development at Willis Re Inc from 2001 to 2004, Analyst at EW Blanch Co. from 1998 to 2001 and Research Scientist at Arkwright Mutual Insurance Co from 1996 to 1998. Mr. Zeng has expertise in insurance portfolio optimization and risk management and has published multiple articles in professional journals on related topics. He has a Ph.D. in atmospheric sciences from the University of Washington where he graduated in 1996. He received a B.S. in Meteorology from Beijing University, graduating in 1990 and is a CFA charterholder.

Validus Reinsurance, Ltd.

The Board members of Validus Reinsurance, Ltd. are as follows:

<b>Name</b>	<b>Age</b>	<b>Board Position</b>
Edward J. Noonan.....	58	Executive Director
Jeffrey D. Sangster.....	44	Executive Director
Robert F. Kuzloski.....	53	Executive Director
Kean D. Driscoll.....	43	Executive Director
Jonathan P. Ritz.....	49	Executive Director
John J. Hendrickson.....	56	Executive Director

A description of the professional qualifications, skills and expertise of the Validus Reinsurance, Ltd. Board members are detailed above.

The Senior Executive officers of Validus Reinsurance, Ltd., including those officers who are members of the Board of Directors, are as follows:

*Kean D. Driscoll* is the Chief Executive Officer of Validus Reinsurance, Ltd. He was a founding member of Validus Holdings, Ltd., and previously served as Chief Underwriting Officer. Mr. Driscoll has over twenty years of experience as a reinsurance underwriter, and was previously with Quanta Re, and Zurich Re N.A. (Converium). Mr. Driscoll holds a B.A. in Literature from Colgate University and an M.B.A. from Columbia University, where he graduated with Honors.

*Robert Marcotte* serves as the Executive Vice President and Chief Financial Officer of Validus Reinsurance, Ltd., and provides support to our Corporate Development process and leads our Planning and Budgeting process. In his expanded role, Mr. Marcotte will report to Jeffrey Sangster. Mr. Marcotte also joined the Group in 2006 and has previously served as Group Controller and in Special Projects roles.

*Angeline Ang* is the Financial Controller and Senior Vice President for the Validus Reinsurance, Ltd. Singapore Branch. Ms. Ang joined the Group in 2009 and is responsible for all financial accounting and regulatory requirements of the Branch office.

*Steve Bardill* is another founding Validus employee, and is responsible for our International business by working with Kean Driscoll and Jeffrey Sangster to provide global oversight and strategy, including our Latin American account, which previously was independent of our International portfolio.

*Gavin Bishop* has been Chief Operating Officer since August 2012 and has been an employee of the Group since 2007 serving in various roles, most recently as Controller since September 2009. Prior to joining the Group, Mr. Bishop worked at Endurance Specialty Insurance Limited following a period as a consultant at Deloitte. Mr. Bishop is a Chartered Accountant, Chartered Insurer and Chartered Property Casualty Underwriter. Mr. Bishop is past President and present Secretary of the CPCU Society Bermuda Chapter and has served in various executive roles of this registered charity.

*Jeffrey Clements* serves as the Chief Underwriting Officer of Validus Reinsurance, Ltd. He has also been with the Group since our founding in 2005, and has been the architect of our excellent specialty reinsurance portfolio. Mr. Clements has also been instrumental in the development of our pricing models and his work with Talbot on our Aviation Reinsurance account has been a perfect example of the ability to achieve great outcomes through group wide cooperation.

*Lorraine Dean* has served as Company Secretary for Validus Holdings, Ltd. since March 2008. Previously Ms. Dean held similar positions with Global Crossing and Appleby Spurling Kempe.

*Kevin Downs* is Chief Actuary and has served as Senior Vice President and Reserving Actuary for Validus Reinsurance, Ltd. since joining the Group in May, 2009. Mr. Downs has over twenty years of experience in the insurance and reinsurance industry, serving previously as a Senior Consulting Actuary for Towers Perrin, where he was responsible for managing the firm's relationship with various Bermuda reinsurance companies. Prior to joining Towers Perrin, Mr. Downs worked for ACE Ltd. in both Philadelphia and London, where he was involved in reserving and settling liabilities for the firm's long-tail legacy exposures. Mr. Downs began his career as a Pricing Actuary at General Accident Insurance in Philadelphia. Mr. Downs holds a B.S. degree in Mathematics from the University of Notre Dame and is a Fellow of the Casualty Actuarial Society.

*Marc Haushofer*, an experienced Asian sector specialist, joined Validus Reinsurance, Ltd. as Chief Representative and head of the Asia-Pacific representative office in 2009. He is the former CEO of Munich Re's Singapore Branch Office for South-East Asia and former Deputy Chairman of the Singapore Reinsurers' Association. He has approximately 25 years of insurance and reinsurance industry experience, with nearly half of this time dedicated to the Asian marketplace.

*Brant Kizer* is the Chief Risk Officer and has served as Vice President, Group Risk for Validus Holdings, Ltd. since joining the Group in February 2012. Mr. Kizer has over twenty years of experience in the insurance and reinsurance industry, serving previously as Assistant Director, Risk Analytics with the Bermuda Monetary Authority, where he led the Internal Capital Model review initiative, from January 2009 to February 2012. Prior to joining the BMA, Mr. Kizer served as Director of Capital Markets Development Corporation from June 2007 to January 2009, Vice President and then President and Director of Select Reinsurance Ltd. from June 2000 to June 2007 and Assistant Vice President of XL Capital Ltd. from May 1997 to June 2000. Before moving to Bermuda, Mr. Kizer began his career at USAA in San Antonio, Texas. Mr. Kizer holds a B.B.A. in Finance and Actuarial Science from the University of Texas at Austin, where he graduated with High Honors.

*Paul Manders* is responsible for our Specialty business, in addition to his role as head of our Marine and Energy account. Mr. Manders is another founding partner in the Group and has established Validus as one of the leading Marine underwriters in the industry.

*Feliks Podgaitis* has served as Vice President and Risk Management Actuary for Validus Reinsurance, Ltd. since joining the Group in November 2007. Mr. Podgaitis has over eighteen years of experience in the insurance and reinsurance industry, serving previously as a Capital Management Actuary for XL Capital Ltd. in Stamford CT, where he was responsible for developing the company's Economic Capital Model. Prior to joining XL Capital, Mr. Podgaitis worked for Platinum Re and Swiss Re in New York, where he was involved in reserving and developing various pricing and economic capital models. Mr. Podgaitis began his actuarial career as a Life Insurance Actuary at Mutual of New York. Mr. Podgaitis holds a M.S. degree in Mathematics from the Polytechnic University in Brooklyn and is a Fellow of the Casualty Actuarial Society.

*Patrick Reardon* is an Executive Vice President and the Chief Counsel, Reinsurance, and is responsible for overseeing our legal and claims operations for reinsurance.

*Christopher Silvester* is the Executive Vice President of Validus Reinsurance, Ltd. with responsibility for our North American portfolio. Mr. Silvester joined the Group in 2006 and has worked closely with Kean Driscoll and Jeffrey Clements in building Validus' U.S. portfolio. Mr. Silvester is a very disciplined and talented underwriter and our clients have come to count on him as a lead market and problem solver.

*Sven Wehmeyer* is an Executive Vice President with the day to day responsibility of managing our International Property account. Mr Wehmeyer joined the Group in October 2006 from Aon, Hamburg and has been instrumental in developing our International franchise, particularly in Europe where many strong ties have been established.

### **c. Risk Management and Solvency Self-Assessment**

#### **i. Description of the group's risk management processes and procedures to effectively identify, measure, manage and report on risk exposures**

*Risk Management Framework:* The Company believes in having a culture that embraces sound risk management practices at all levels of the organization. We have therefore implemented an ERM framework (the "Framework") that is aligned with the Company's culture and responds to the needs of the business. The Framework has been established to identify, assess, quantify and manage risks and opportunities. In particular it is designed to:

- Establish the principles by which the Company can evaluate the risk/reward trade-offs associated with key strategic and tactical decisions.
- Establish a risk governance structure that, in respect of all activities related to ERM, operates with clearly defined roles and responsibilities.
- Establish minimum requirements that must be met by each of the Company's segments.
- Identify and assess all risks and causes of risks arising out of the Company's strategic initiatives, internal processes and external environment.
- Establish a set of responses to manage the Company's risks within its stated risk appetite and risk tolerances.
- Establish procedures through which near-miss and actual incidents, that either have the potential to impact or have impacted the Company, are reported and reviewed in order to inform the risk identification and assessment process.

*Risk Governance:* Our risk governance philosophy reflects the overall governance of the Company, with the segments given broad autonomy over the management of their business, while adhering to the overall strategy of the Company. Similarly, the segments have broad operational latitude over their risk management functions while staying within the parameters set by the Company.

The Company's Board of Directors has established a separate Risk Committee ("RC") that is governed by a charter which is updated and reviewed periodically by the Board of Directors. The RC is responsible for, among other things, approving the Framework, working with management to ensure ongoing, effective implementation of the Framework and reviewing the Company's specific risk limits as defined in the Framework, including limits related to major categories of risk. The implementation of risk policies and oversight of risk management is the responsibility of the Group Risk Management Committee ("GRMC"). The GRMC reports to the RC and is governed by a charter that is reviewed and approved annually by the RC. The GRMC also has two subcommittees, the Model Risk Subcommittee and the Operational Risk Subcommittee, both of which are governed by charters that are reviewed annually by the RC. Various risk policies are in place to facilitate consistent risk assessment across the Company and to ensure that strategic business decisions are supported by effective modeling and analysis.

A similar system operates at operating company level with each having risk oversight committees equivalent to the GRMC, with similar responsibilities and governance around them. These reporting into the respective operating company Boards as well as the GRMC itself.

*Risk Classification:* Risks are broadly divided into those that the Company assumes explicitly and from which it derives income and those that are a by-product of the operating and business environment, from which the Company does not earn income.

The risks assumed are categorized as catastrophe, reserve and premium risks (also together referred to as insurance risk), market (or investment) risk and credit risk. The Company's goal is to get adequately compensated for these risks, while creating optimal insurance and investment portfolios subject to the constraints of the Company's risk appetite. The remaining risks are categorized as operational and strategic risks, which typically include emerging risks, for which the Company's goal is to identify, assess and mitigate to the extent considered appropriate.

This classification is used at both a Group and operating company level.

*Risk Ownership:* The Company's risk management philosophy is to entrust risk identification and control activities with the employees who have the responsibility for and expertise in the areas giving rise to each risk. This not only creates workflow efficiencies but also promotes awareness of and accountability for risk at all levels of the Company. As such, primary risk ownership is assigned to the managers of functional areas. The risk identification and control activities are embedded in the job descriptions of risk owners and control operators and monitored by the GRMC, as well as operating company risk oversight committees.

*Risk Assessment, Control and Mitigation:* The Company performs a regular risk assessment process that considers the likelihood and impact of causes of risk, both before and after the existence of relevant controls. The approaches used to identify and update causes of risk include scenario building, incident and near-miss reporting and market intelligence. Controls have been established to appropriately manage the likelihood and impact of risks, focused on those with the most significance and after considering the tolerance level established for each risk. New controls may also be designed as a result of the incident reporting process.

The Company also has in place policies, including underwriting, investment, and credit policies, to manage the assumption of risk. These policies provide for the Company's risk limits, tolerance levels and other guidelines, as well as the processes for ensuring compliance with the desired risk profile of the Company. The Company has at its disposal a variety of risk mitigation tools, including the purchase of reinsurance and retrocessional coverage, which it uses to ensure that its risk profile stays within prescribed limits and tolerance levels.

This system is used at both a Group and operating company level.

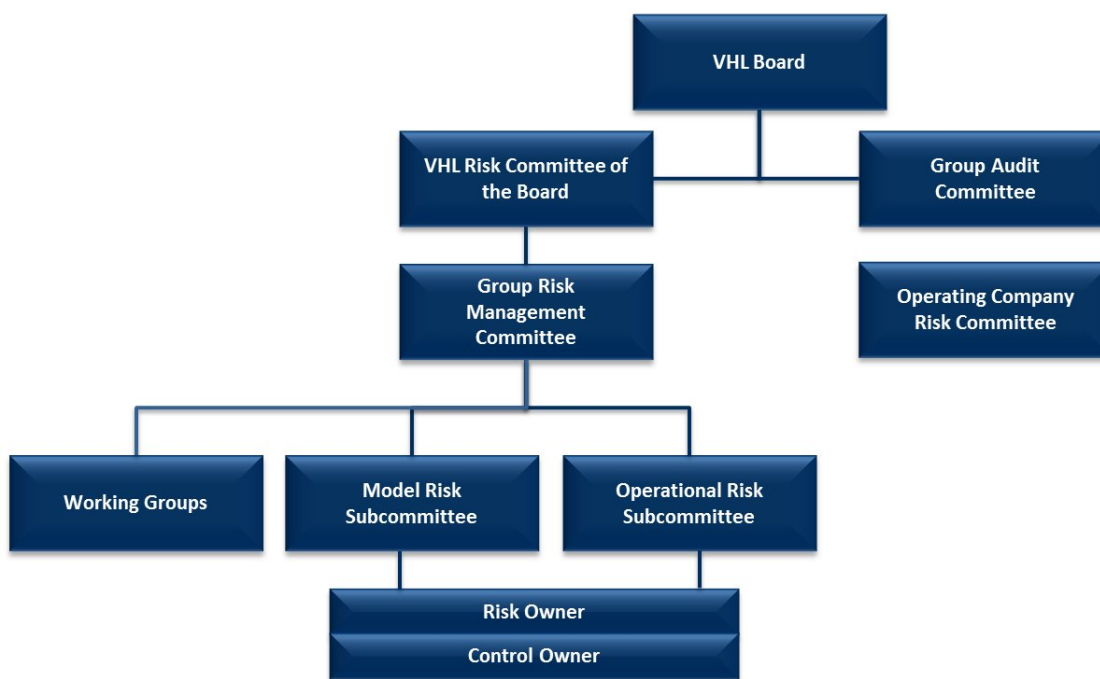
*Exposure Management:* In order to manage the assumption of insurance risk, the Company has established risk limits through both qualitative and quantitative considerations, including market share, history of and expertise in a class of business or jurisdiction, transparency and symmetry of available information, reliability of pricing models and availability and cost of reinsurance. These limits are reviewed at least annually and aligned to the overall risk appetite established by the Company's Board of Directors. In addition, a group exposure management policy is in place to ensure appropriate and consistent risk assessment and aggregation of exposures that accumulate between the operating companies in the group.

Three tools are used to measure and manage exposures:

- Absolute maximum limits - these are defined based on the underlying peril or coverage and include measures such as zonal aggregates, which convey the maximum contractual loss exposure.
- Probable maximum loss - these are defined where probabilistic event sets exist for underlying perils and are established for most natural catastrophe, aviation and upstream energy coverage, and convey an extreme but likely loss exposure.
- Realistic disaster scenarios ("RDSs") - these are either prescribed by third parties or developed internally and convey a more intuitive view of potential loss outcomes.
- The Company will often use multiple tools to validate its exposure measurement and ensures that at least one of these tools is available for each class of business.

**ii. Description of how the group’s risk management and solvency self-assessment systems are implemented and integrated into the group’s operations**

The chart below outlines the structure of Risk Governance throughout the Validus Group. The Risk Governance structure is designed to establish clear lines of responsibility and oversight duties for the Group and operating companies. The Risk Framework sets out the responsibilities and duties for each committee.



The Risk Committee of the Board approve the Risk Management framework, the Charter of the GRMC, the Group Risk Appetite Statement and the regulatory filings (including the Solvency Self-Assessment) and disclosures.

The GRMC are responsible for the oversight of the key risk management and solvency self assessment systems, with some items delegated to its two subcommittees. A similar system operates at operating company level with each having risk oversight committees equivalent to the GRMC, with similar responsibilities and governance around them.

*Risk Appetite Statement:* The Company’s risk appetite is expressed through a series of qualitative and quantitative statements, principles, limits, and tolerances that, in the aggregate, convey the Company’s risk and reward preferences and set the risk parameters within which the Company and its segments operate. Among other metrics, the statement includes probability thresholds in respect of maintaining a buffer above regulatory and rating agency capital requirement levels.

The Company also sets levels of concentration risks within its risk appetite, including those related to probable maximum losses, zonal aggregates and the contribution of various risk categories to the overall assessment of the Company’s risk capital.

The Risk Committee of the Board reviews and approves the Risk Appetite Statement annually. The Validus Capital Model is used to model the business plan and monitor compliance of this with the quantitative Risk Appetite statements; the Risk Committee of the Board reviews this each quarter. Additionally, any key decisions on strategy are appraised through reviewing its effect on these risk metrics. Examples include the recent acquisitions of Western World and CRS where the effect on our risk metrics formed a key part of the due diligence process.

Additional risk measures, such as exposure limits and scenario tests, are reviewed by the GRMC each quarter.

Risk Appetite Statements are also established at operating company level consistent with the operating company requirements set out in the Group Risk Appetite Statement. Compliance is monitored similarly using the Validus Capital model with reporting to both the operating company and Group Boards.

*Risk Policies:* Various Risk policies exist that outline guidelines for risk assessment for strategic initiatives like:

- Mergers and Acquisitions
- Evaluation of New Lines of Business
- Outwards Reinsurance

Other Risk Policies outline Company requirements:

- Exposure Management Policy
- Model Validation Framework
- Validus Capital Model Governance

These policies apply to the Group as well as operating companies. The policies are approved by the GRMC annually.

### **iii. Description of the relationship between the solvency self-assessment, solvency needs, and capital and risk management systems of the insurance group**

The solvency self-assessment, utilizing the Validus Capital Model, is the primary tool for monitoring ongoing compliance with the quantitative measures set out in our Risk Appetite Statement, both at a Group and operating company level. These measures include requirements for the level of capital buffers to maintain above requirements set by regulators, rating agencies and our own internal view of our economic capital requirement - Risk Capital measured at a 1 in 250 TVAR level from the Validus Capital Model. In each case, we require that sufficient capital resources are maintained to ensure the probability of exhausting any of our capital buffers is below a desired threshold (set out in the Risk Appetite Statement).

Additionally, the solvency self-assessment provides a variety of information and risk measures that are used in informing business strategy, both at a Group and operating company level, such as decisions on risk transfer through reinsurance/retrocession and optimizing our investment portfolio from a risk vs return viewpoint.

The risk management systems feed up into the calibration of the solvency self-assessment in various ways. For example, internal loss data is used in calibration of the insurance risk distributions and assessments of operational risks and controls are used in calibrating the operational risk distributions.

### **iv. Description of the solvency self-assessment approval process including the level of oversight and independent verification by the parent board and senior executives**

Solvency self-assessment is prepared by the Group Head of Economic Capital Modeling. This is reviewed by the Group Chief Risk Officer (“CRO”), followed by a review by the GRMC. The GRMC consists of the Group’s and operating companies’ CEO’s, CRO’s and the Director of Strategy and Corporate Development, among other members. A special meeting is organized for the Risk Committee of the Validus Board to allow sufficient time for a review of the solvency self-assessment and to answer any questions they may have.

After review, the solvency self-assessment is provided to the Board for approval with emphasis upon the Company’s internal capital modeling, significant changes during the quarter, current and emerging risk exposures, and how the exposures are mitigated in the risk management framework. Via the solvency self-assessment, the Board also reviews how exposures are in compliance with the Company’s risk appetite statement, risk tolerance levels and limits. The process respects the ‘Three Lines of Defence’ in that it is managed by the Second Line (rather than First), and is subject to periodic review by the Third Line (Internal Audit), and occasionally validated by third party consultants.

## **d. Internal Controls**

### **i Description of the internal control system**

On an annual basis, the Company performs risk assessment that considers and scores the likelihood and impact of causes of risk, both before and after the existence of relevant controls. The Risk team works with the business to ensure that the scoring is consistent across various areas and that the appropriate key controls are in place. The key controls that have been established are designed to appropriately manage the likelihood and impact of risks. New controls may be designed as a result of the incident reporting process or where there are changes in the risk profile or underlying processes. To further strengthen the Company’s control framework, the performance of all key controls takes places with the results being fed back to the business.

A Management level committee reviews the risk framework and respective components ensuring that material elements have been identified and are being mitigated and monitored on a regular basis. The resulting output is integrated with the Capital Model for the purpose of quantifying Operational Risk.

Various Risk policies are in place that apply to all the operating companies and various functions of the Group. Compliance with these policies is monitored on a regular basis and reported to a Management level committee.

The Company also has in place various supporting policies, including underwriting, investment, and credit policies, to manage the assumption of risk. These policies provide for the Company’s risk limits, tolerance levels and other guidelines, as well as the processes for ensuring compliance with the desired risk profile of the Company. The Company has at its disposal a variety of risk

mitigation tools, including the purchase of reinsurance and retrocessional coverage, which it uses to ensure that its risk profile stays within prescribed limits and tolerance levels.

## **ii. Description of how the compliance function of the insurance group is executed**

The Validus Group CEO, with the concurrence of the Validus Board of Directors, shall appoint a senior level executive as Chief Compliance Officer of the Company, who, shall be responsible for formulation and implementation of an effective Compliance Program (which includes Western World, Talbot, Validus Re and AlphaCat). In order to assure the independence of the CCO, and the integrity of the Program, the CCO reports directly to the Validus Audit Committee on a periodic basis on matters relating to the Company's material compliance with applicable legal/jurisdictional requirements and the Company's Code of Conduct. Further, any material changes to the CCO's authority or status shall be made with the concurrence of the Audit Committee.

The purpose of the Validus Group Compliance Program is to:

- Integrate compliance risk management in day to day business activities and strategic planning;
- Help protect Validus Group from financial or reputational harm that arises from non-compliant or unethical conduct;
- Help prevent, detect and remediate compliance failures or risks; and
- Ensure the organization meets its regulatory obligations in each jurisdiction.

## **e. Internal Audit - description of how the internal audit function of the insurance group is implemented and how it maintains its independence and objectivity when conducting its functions**

Group Internal Audit is established by the Company's Audit Committee ("AC") pursuant to applicable laws and regulations, customs of corporate governance and best practices. The Chief Audit Officer is hired, evaluated, retained and terminated by the AC. The AC seeks input from the Company's executive management in making its selection. The Chief Audit Officer is delegated the authority to operate the Company's group internal audit function on behalf of the AC, with scope over all subsidiary operations.

The Chief Audit Officer is authorized to allocate resources, determine scopes of work, and apply the techniques necessary to accomplish the audit objectives required by the AC. The Chief Audit Officer and designated internal audit staff, as appropriate, are granted authority for full, free and unrestricted access to all of the organizations' functions, records, files and information systems, personnel, contractors, physical properties, rental locations, and any other item relevant to the function, process or department under review. All of the employees of the organization are required to assist the staff of group internal audit in fulfilling their audit functions and fiduciary duties.

To provide for the independence of the group internal audit function, the Chief Audit Officer reports functionally to the AC and administratively to the Company's executive management. The Chief Audit Officer shall freely discuss audit policies, audit observations and agreed actions, audit follow-up, guidance issues and other matters as necessary.

The scope of the Company's group internal audit function work encompasses the examination and evaluation of the organization's policies, procedures and data, and key activities include the review of:

- Policies and procedures approved by the Board;
- Governance and oversight structures and processes;
- Risk management procedures and reports;
- Financial and operating information;
- Compliance to procedures and relevant regulations;
- Organizational culture and ethics;
- Business operations and their effectiveness and efficiency in managing risk; and
- Projects and business change initiatives.

The Company's group internal audit function activity shall be conducted at all times in accordance with the mandatory *International Standards for the Professional Practice of Internal Auditing* adopted by the Institute of Internal Auditors ("IIA"). All members of the Company's group internal audit team shall meet or exceed the ethical standards delineated by the IIA in its *Code of Ethics*.

## **f. Actuarial Function - description of how the insurance group's actuarial function is implemented**

The Validus Group has an established Group Actuarial function that is responsible for coordinating, planning, consolidating, and reporting on a broad range of actuarial items for the Group. This function reports directly to the Group Chief Financial Officer and has access to and frequent communication with the Board of Directors. The Group Chief Actuary is a Fellow of the Casualty Actuarial Society (FCAS), a Fellow of the Canadian Institute of Actuaries (FCIA), an Associate of the Society of Actuaries (ASA), and a Member of the American Academy of Actuaries (MAAA). The key responsibilities of the Group Actuarial Function are to assist in the Group's stewardship mission by:



- Liaising with the operating company Chief Actuaries to represent the Group's interests and ensure consistent policies and practices across the group;
- Evaluating reserving policies and practices at the operating companies;
- Review of overall reserve adequacy for the group;
- Evaluating pricing models utilized at the operating companies; and
- Review of budgeted or planned loss ratios for the operating companies.

**g. Outsourcing**

**i Description of the insurance group's outsourcing policy and information on any key or important functions that have been outsourced**

Validus Reinsurance, Ltd. and the Company have an expense and procurement policy in place that outlines the various levels of approval authority for transactions involving contractual obligations, outsourcing arrangements and disbursement of funds for activities. Certain investment management duties, which are governed by the Company's IPS, have been delegated to third party investment managers. Apart from this, Validus Reinsurance, Ltd. and the Company have not outsourced any other key operational areas including underwriting, finance, risk management, internal audit and compliance to third parties.

**ii Description of the insurance group's material intra-group outsourcing**

Validus Reinsurance, Ltd. and the Company have service level agreements in place to address material intra-group outsourcing arrangements. The intra-group outsourcing arrangements include the following services:

- Actuarial
- Analytical (catastrophe research)
- Computer programming
- Credit advisory
- Finance
- Human resources
- Internal audit
- Investment management services
- Information technology
- Legal services
- Management advisory
- Operations
- Risk management

The provision of these services are charged to the service recipient at cost plus a markup, which varies based on the service provided.

These are reviewed and updated on a regular basis, and ultimately approved by the Chief Operating Officers of the relevant entities within the Group.

**h. Any other material information**

None.

### 3. RISK PROFILE

#### a. Material risks that the insurance group is exposed to, including how these risks are measured and any material changes that have occurred during the reporting period

The risk of high levels of claims following a severe catastrophe event is assessed to be the dominant risk for the Group. Other material risks include the risk that we have underestimated our reserves for incurred losses, the risk of heightened claims due to emerging claims or coverage issues, the risk posed by competition leading to a loss of market share or a deterioration in business quality, and the risk of losses on our investment portfolio.

These risks are measured through our holistic Economic Capital Model.

The Company's main risk categories are insurance, market, credit, operational, and strategic risk.

- Insurance Risk - the risk of loss arising from inadequate pricing or of adverse change in the value of insurance liabilities due to inadequate provisioning assumptions. For Validus, the most significant risk is from a severe catastrophe event. Other material risks include the risk that we have underestimated our reserves for incurred losses, the risk of heightened claims due to emerging claims or coverage issues, the risk posed by competition leading to a loss of market share or a deterioration in business quality;
- Market Risk - the risk of loss or of adverse change in the financial situation resulting, directly or indirectly, from fluctuations in the level and in the volatility of market prices of financial instruments. The predominant effect of this is on potential for losses in our investment portfolio;
- Credit Risk - the risk of loss or of adverse change in the financial situation, resulting from the deterioration of the credit quality or default of an issuer of a financial instrument, a borrower, or a counterparty in a reinsurance or derivative contract. Our most significant credit risks are from reinsurance/retrocession counterparties;
- Operational Risk - the risk of loss arising from inadequate or failed internal processes, personnel or systems, or from external events; and
- Strategic Risk - the risk of loss arising from the adverse effect of management decisions on both business strategies and their execution, as well as from unexpected changes in environmental trends that damage the operating economics of the business.

All of these risks are measured using the Validus Capital model. This external vendor models for catastrophe and market risks, and internally developed components for other risks and aggregation across risks. The Validus Capital is a fully stochastic Monte Carlo simulation model that generates 100,000 scenarios for all risk categories along with associated inter-dependencies between them. The Validus Capital Model has been in use for six years. Enhancements are continually made, however no material changes to the way that risks are measured have occurred since last year.

#### b. How risks of the insurance group are mitigated including the methods used and the process to monitor the effectiveness of these methods

Our most significant risk transfer mechanism is the use of reinsurance/retrocession. Detailed analysis is undertaken each year to support the reinsurance/retrocession purchase decisions. This uses the Validus Capital Model to measure the effect and extent of risk transfer and the value creation from the options on offer. This is carried out at a Group and operating company level including consideration of internal reinsurance. The operating companies regularly provide the GRMC with outwards reinsurance profitability studies every quarter, giving information on actual ceded claims as well as ceded claims disputes. To demonstrate how proposed coverage would respond, an "as if" analysis is carried out with respect to specific historical losses applicable to the cover being sought (e.g. Katrina, Deepwater, etc.) and the impact of relevant RDS's are examined.

Risk appetite metrics and risk limits are monitored by each operating company against tolerances on a quarterly basis. Escalation procedures are in place for breaches, involving communication to the relevant operating company risk committees and, if necessary, communication to the Board.

#### c. Material risks concentration

Material concentrations of risk from natural catastrophes include, but are not restricted to, exposure to windstorms in the United States, Europe and Japan, and exposure to earthquakes in the United States and Japan. The probable maximum loss ("PML") metrics for these peril-regions are disclosed within the Validus Financial Supplement.

Material concentrations of risk from non-natural catastrophe include, but are not restricted to, terrorist attacks, accidents within the marine, aerospace and energy sectors, and geopolitical and economic unrest. Illustrative RDS's for non-natural catastrophes are disclosed within the Validus Financial Supplement.

Risk concentrations from other risk categories are far less material, as required by our risk appetite statement.

**d. How assets are invested by and on behalf of an insurance group in accordance with the prudent person principle as stated in paragraph 12 (1) (a) of the Insurance (Group Supervision) Rules 2011**

The overriding goal of our investment management is capital preservation, such that the assets of the Company are invested to provide for the timely payment of all contractual obligations of policyholders and creditors, ensuring our ability to underwrite future business and to satisfy all regulatory and rating agency requirements. We aim to achieve these objectives through a clearly defined process that is driven by the enterprise-wide risk and capital position of the Company to ensure assets are invested in accordance with our defined financial objectives and risk tolerances. Our approach considers the joint impact of underwriting and investment risks to the Company, in the context of clear prioritization of underwriting needs and opportunities. As such, we structure our investment portfolio to support policyholder reserves and contingent risk exposures with a liquid portfolio of high quality fixed-income investments with a comparable duration profile.

The Board of Directors, advised by our Finance Committee, Chief Financial Officer and Chief Investment Officer, oversees our investment strategy and has established the Company's IPS. The IPS provides a framework for the management and oversight of the Company's managed investment portfolio ("managed investments"), which excludes investments held in support of consolidated AlphaCat VIEs ("non-managed investments"). The purpose of the IPS is to:

- Communicate and align the Company's investment philosophy and goals;
- Provide transparency regarding investment policies, procedures and controls;
- Set expectations and priorities of our third party investment managers;
- Establish a framework for integrating investment management into our overall ERM process;
- Mandate our investment parameters, including permissible asset classes and portfolio constraints, and governance structure for portfolio oversight and management;
- Establish formalized criteria to measure, monitor, and evaluate investment performance and risk exposures on a regular basis; and
- Ensure assets are invested in accordance with the overall financial goals and risk tolerances of the Company.

The IPS is updated annually or as otherwise appropriate to reflect changes to the Company, the economy, the regulatory environment or other factors.

**e. Stress testing and sensitivity analysis to assess material risks, including the methods and assumptions used by the insurance group, and the outcomes**

The company maintains a group capital model that is updated on a quarterly basis. The model incorporates every material risk to which the company is exposed, including underwriting, reserving, market and credit. This allows the company to test the adequacy of its capital and liquidity against thousands of potential stress scenarios.

In addition to the probabilistic testing intrinsic to the capital model, the company also estimates the financial impact of several deterministic scenarios such as specific natural catastrophe events as well as stress events in the areas of Marine, Political Risk, Aviation, Space, Terrorism, Liability and Cyber, including scenarios specified by the BMA. Estimated net loss for a number of non-natural catastrophe stress events is disclosed twice per year in the company's financial supplement. Based on the latest results, the company believes it has sufficient capital and liquidity to comply with its contractual and regulatory obligations upon experiencing any of the tested stress scenarios at least to a 99.5% TVaR threshold.

**f. Any other material information**

None.

## 4. SOLVENCY VALUATION

### a. Valuation bases, assumptions and methods used to derive the value of each asset class

The following methods and assumptions were used in estimating the fair value of each class of financial instrument recorded in the Consolidated Balance Sheets.

The carrying values of cash and cash equivalents (including restricted cash), investment income due and accrued, funds withheld, balances receivable on the sale of investments and reinsurance balances receivable approximated their fair values at December 31, 2016, due to their respective short maturities.

#### *Collateral loans*

The Company participates in a securities lending program whereby certain securities from its portfolio are loaned to third parties for short periods of time through a lending agent. The Company retains all economic interest in the securities it lends and receives a fee from the borrower for the temporary use of the securities. Collateral in the form of cash, government securities and letters of credit is required at a rate of 102% of the market value of the loaned securities and is held by a third party.

The collateral loans balance is valued at the fair value of the underlying securities. Refer to the fixed maturity investments section below for further details.

#### *Accounts and premiums receivable*

The accounts and premiums receivable balance represents premiums owed from (re)insurers, less related acquisition costs. Outstanding premiums are valued at fair value, being the amount recoverable, and due to the short-term nature of the receivable no adjustments to valuation, estimates or judgments are required.

The recognition and valuation basis is consistent with the accounting valuation under U.S. GAAP. However, the balance has been adjusted to exclude the amount not yet due on the valuation date.

#### *Derivative instruments*

Derivative instruments are valued at fair value with their prices based on observable market inputs.

#### *Deferred tax assets*

Deferred tax assets are recorded in accordance with U.S. GAAP. The Company records deferred income taxes which reflect operating losses and tax credits carried forward and the tax effect of the temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and their respective tax bases.

The Company and its Bermuda domiciled subsidiaries are not subject to any income, withholding or capital gains taxes under current Bermuda law. The Company has operating subsidiaries in various other jurisdictions around the world, including but not limited to the U.K., U.S., Switzerland, Luxembourg and Canada that are subject to relevant taxes in those jurisdictions.

The Company recognizes the tax benefits of uncertain tax positions only where the position is more likely than not to be sustained upon examination by tax authorities based upon the technical merits of the position. Based on the more-likely-than-not recognition threshold, we must presume that the tax position will be subject to examination by a taxing authority with full knowledge of all relevant information. If the recognition threshold is met, then the tax position is measured at the largest amount of benefit that is more than 50% likely of being realized upon ultimate settlement.

The valuation of deferred tax assets is consistent with the accounting valuation under U.S. GAAP.

#### *Fixed maturity investments*

In general, valuation of the Company's fixed maturity investment portfolio is provided by pricing services, such as index providers and pricing vendors, as well as broker quotations. The pricing vendors provide valuations for a high volume of liquid securities that are actively traded. For securities that do not trade on an exchange, the pricing services generally utilize market data and other observable inputs in matrix pricing models to determine month end prices. Prices are generally verified using third party data. Securities which are priced by an index provider are generally included in the index.

In general, broker-dealers value securities through their trading desks based on observable inputs. The methodologies include mapping securities based on trade data, bids or offers, observed spreads, and performance on newly issued securities. Broker-dealers also determine valuations by observing secondary trading of similar securities. Prices obtained from broker quotations are considered non-binding, however they are based on observable inputs and by observing secondary trading of similar securities obtained from active, non-distressed markets.

### U.S. government and government agency

U.S. government and government agency securities consist primarily of debt securities issued by the U.S. Treasury and mortgage pass-through agencies such as the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation and the Government National Mortgage Association. Fixed maturity investments included in U.S. government and government agency securities are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources and integrate other observations from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The fair value of each security is individually computed using analytical models which incorporate option adjusted spreads and other daily interest rate data.

### Non-U.S. government and government agency

Non-U.S. government and government agency securities consist of debt securities issued by non-U.S. governments and their agencies along with supranational organizations (also known as sovereign debt securities). Securities held in these sectors are primarily priced by pricing services who employ proprietary discounted cash flow models to value the securities. Key quantitative inputs for these models are daily observed benchmark curves for treasury, swap and high issuance credits. The pricing services then apply a credit spread for each security which is developed by in-depth and real time market analysis. For securities in which trade volume is low, the pricing services utilize data from more frequently traded securities with similar attributes. These models may also be supplemented by daily market and credit research for international markets.

### U.S. states, municipalities and political subdivisions

The Company's U.S. states, municipalities and political subdivisions portfolio contains debt securities issued by U.S. domiciled state and municipal entities. These securities are generally priced by independent pricing services using the techniques described for U.S. government and government agency securities described above.

### Agency residential mortgage-backed securities

The Company's agency residential mortgage-backed investments are primarily priced by pricing services using a mortgage pool specific model which utilizes daily inputs from the active to be announced market which is very liquid, as well as the U.S. treasury market. The model also utilizes additional information, such as the weighted average maturity, weighted average coupon and other available pool level data which is provided by the sponsoring agency. Valuations are also corroborated with daily active market quotes.

### Non-agency residential mortgage-backed securities

The Company's non-agency mortgage-backed investments include non-agency prime residential mortgage-backed fixed maturity investments. The Company has no fixed maturity investments classified as sub-prime held in its fixed maturity investments portfolio. Securities held in these sectors are primarily priced by pricing services using an option adjusted spread model or other relevant models, which principally utilize inputs including benchmark yields, available trade information or broker quotes, and issuer spreads. The pricing services also review collateral prepayment speeds, loss severity and delinquencies among other collateral performance indicators for the securities valuation, when applicable.

### U.S. corporate

Corporate debt securities consist primarily of investment-grade debt of a wide variety of U.S. corporate issuers and industries. The Company's corporate fixed maturity investments are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources regarding the issuer of the security and obtain credit data, as well as other observations, from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The pricing services also consider the specific terms and conditions of the securities, including any specific features which may influence risk. In certain instances, securities are individually evaluated using a spread which is added to the U.S. treasury curve or a security specific swap curve as appropriate.

### Non-U.S. corporate

Non-U.S. corporate debt securities consist primarily of investment-grade debt of a wide variety of non-U.S. corporate issuers and industries. The Company's non-U.S. corporate fixed maturity investments are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources regarding the issuer of the security and obtain credit data, as well as other observations, from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The pricing services also consider the specific terms and conditions of the securities, including any specific features which may influence risk.

### Bank loans

The Company's bank loan investments consist primarily of below-investment-grade debt of a wide variety of corporate issuers and industries. The Company's bank loans are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources regarding the issuer of the security and obtain credit data, as well as other observations, from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The pricing services also consider the specific terms and conditions of the securities, including any specific features which may influence risk.

Included in the bank loan portfolio is a collection of loan participations held through an intermediary. A third party pricing service provides monthly valuation reports for each loan and participation using a combination of quotations from loan pricing services, leveraged loan indices or market price quotes obtained directly from the intermediary. Significant unobservable inputs used to price these securities include credit spreads and default rates.

### Asset-backed securities

Asset backed securities include mostly investment-grade debt securities backed by pools of loans with a variety of underlying collateral, including automobile loan receivables, student loans, credit card receivables, and collateralized loan obligations originated by a variety of financial institutions. Securities held in these sectors are primarily priced by pricing services. The pricing services apply dealer quotes and other available trade information such as bids and offers, prepayment speeds which may be adjusted for the underlying collateral or current price data, the U.S. treasury curve and swap curve as well as cash settlement. The pricing services determine the expected cash flows for each security held in this sector using historical prepayment and default projections for the underlying collateral and current market data. In addition, a spread is applied to the relevant benchmark and used to discount the cash flows noted above to determine the fair value of the securities held in this sector.

Where pricing is unavailable from pricing services, we value the positions using alternative methods such as a discounted cash flow methodology. This is generally the case when there is a low volume of trading activity and/or current transactions are not orderly.

### Commercial mortgage-backed securities

Commercial mortgage backed securities are investment-grade debt primarily priced by pricing services. The pricing services apply dealer quotes and other available trade information such as bids and offers, prepayment speeds which may be adjusted for the underlying collateral or current price data, the U.S. treasury curve and swap curve as well as cash settlement. The pricing services determine the expected cash flows for each security held in this sector using historical prepayment and default projections for the underlying collateral and current market data. In addition, a spread is applied to the relevant benchmark and used to discount the cash flows noted above to determine the fair value of the securities held in this sector.

### Catastrophe bonds

Catastrophe bonds are priced based on broker or underwriter bid indications.

### **Short-term investments**

Short-term investments consist primarily of highly liquid securities, all with maturities of less than one year from the date of purchase. The fair value of the portfolio is generally determined using amortized cost which approximates fair value.

### **Other investments**

#### Fund of hedge funds

The fund of hedge funds includes a side pocket. While a redemption request has been submitted, the timing of receipt of proceeds on the side pocket is unknown. The fund's administrator provides a monthly reported Net Asset Value ("NAV") with a three month delay in its valuation. The fund manager has provided an estimate of the fund NAV at year end based on the estimated performance provided from the underlying funds. To determine the reasonableness of the estimated NAV, the Company compares the fund administrator's NAV to the fund manager's estimated NAV that incorporates relevant valuation sources on a timely basis. Material variances are recorded in the current reporting period while immaterial variances are recorded in the following reporting period. The fair value of these investments are based on the advised NAV's.

#### Hedge funds

The hedge fund's administrator provides quarterly NAVs with a three month delay in valuation. The fair value of this investment is based on the advised NAV.

### Private equity investments

The private equity funds provide quarterly or semi-annual partnership capital statements with a three or six month delay which are used as a basis for valuation. These private equity investments vary in investment strategies and are not actively traded in any open markets. The fair value of these investments are based on the advised NAV.

### Fixed income investment funds

The Company's investment funds consist of a pooled investment fund. The pooled investment is invested in fixed income securities with high credit ratings and is only open to Lloyd's Trust Fund participants. The fair value of units in the investment fund is based on the advised NAV.

Included in investment funds is a residual equity tranche of a structured credit fund valued using a dynamic yield that calculates an income accrual based on an underlying valuation model with a typical cash flow waterfall structure. Significant unobservable inputs used to price this fund include default rates and prepayment rates.

The fair value of the Company's remaining investment funds is based on the NAV of the fund as reported by the independent fund administrator. The fund's administrators provide a monthly reported NAV with a one or three month delay in their valuation.

### Overseas deposits

The Company's share of a portfolio of Lloyd's overseas deposits are managed centrally by Lloyd's and invested according to local regulatory requirements. The composition of the portfolio varies and the deposits are made across the market. The fair value of the deposits is based on the portfolio level reporting that is provided by Lloyd's. The fair value of these investments are based on the advised NAV.

### Mutual funds

Mutual funds consist of an investment fund which invests in various quoted investments. The fair value of units in the mutual fund is based on the NAV of the fund as reported by the fund manager. The mutual fund has daily liquidity which allows us to redeem our holdings at the applicable NAV in the near term.

### Investments in affiliates

Investments in which the Company has significant influence over the operating and financial policies of the investee are accounted for under the equity method of accounting which approximates fair value as at December 31, 2016. Under this method, the Company records its proportionate share of income or loss from such investments in its results for the period.

### **b. The valuation bases, assumptions and methods used to derive the value of technical provisions and the amount of the best estimate. The amount of the risk margin as well as the level of uncertainty to determine the value of the technical provisions should be included:**

We have referred to guidance provided by the BMA to calculate technical provisions. We use the technical provisions template provided by the BMA. In certain cases, we have referred to technical provision guidance from Lloyd's.

We rely on the following data for technical provision calculation associated with our operating companies (Validus Re, Talbot, Western World, AlphaCat):

- Claims provision data provided by the Company's operating companies: These are provided separately by operating company and are based on their underlying U.S. GAAP reserve process for Q4 2016. The operating companies also provide expected reserve cashflows and other adjustments for the claims provision. For Talbot, this data comes directly from their Solvency II process. Other adjustments made to the claims provision include:
  - Removal of prudency margins;
  - Adjustments for cost of investment income and bad debt;
  - Inclusion of expected cashflows for future reinstatement premiums ("RIP") or other premium receivables related to claims that have already occurred; and
  - Discounting of cashflows.

- Premium provision data provided by the operating companies: These are provided separately by operating company and are based on expected cashflows related to unearned premium and bound but not incepted contracts. Similar to the claims provision, expected cashflows and other adjustments are included. For Talbot, this data comes directly from their Solvency II process.
- The risk margin increases the technical provisions from the best estimate to theoretical level needed to transfer obligations to another risk bearing entity. We use the technical provision template provided by the BMA to calculate the risk margin.
- Discount rates: We use risk-free discount rates provided by the BMA. The BMA provides separate discount rates by currency.
- The operating companies independently map their data to BMA class of business. To allocate business to BMA lines of business, Validus Re and AlphaCat use general ledger codes, Talbot uses Lloyd's business codes and Western World uses National Association of Insurance Commissioner ("NAIC") classes.

The technical provisions are made up of the following elements:

(Dollars in thousands)	December 31, 2016	
	Validus Reinsurance, Ltd.	Validus Holdings, Ltd.
Best estimate claims provision	\$ 2,244,561	\$ 2,292,022
Best estimate premium provision	228,277	234,404
Risk margin	163,802	166,727
<b>Total technical provisions</b>	<b>\$ 2,636,640</b>	<b>\$ 2,693,153</b>

**c. Description of recoverables from reinsurance contracts, including special purpose insurers and other risk transfer mechanisms**

The Company enters into reinsurance agreements in order to mitigate its accumulation of loss, reduce its liability on individual risks and enable it to underwrite policies with higher limits. The ceding of the insurance risk does not legally discharge the Company from its primary liability for the full amount of the policies, and the Company is therefore required to pay the loss and bear collection risk if the reinsurer fails to meet its obligations under the reinsurance agreement.

The Company primarily uses ceded reinsurance for risk mitigation purposes. The Company purchases reinsurance on either an excess of loss, proportional or facultative basis together with industry loss warranties coverage.

Paid losses recoverable and loss reserves recoverable balances include amounts owed to us in respect of paid and unpaid ceded losses and loss expenses, respectively. The balances are presented net of a provision for non-recoverability. In establishing our reinsurance recoverable balances, significant judgment is exercised by management in determining the amount of unpaid losses and loss expenses to be ceded as well as our ability to cede losses and loss expenses under our reinsurance contracts.

The Company's ceded unpaid losses and loss expenses consists of two elements, those for reported losses and those for IBNR. Ceded amounts for IBNR are developed as part of our loss reserving process. Consequently, the estimation of ceded unpaid losses and loss expenses is subject to similar risks and uncertainties in the estimation of gross IBNR.

Although our reinsurance recoverable balances are derived from our determination of contractual provisions, the recoverability of such amounts may ultimately differ due to the potential for a reinsurer to become financially impaired or insolvent or for a contractual dispute over contract language or coverage. Consequently, we review our reinsurance recoverable balances on a regular basis to determine if there is a need to establish a provision for non-recoverability. In performing this review, the Company uses judgment in assessing the credit worthiness of our reinsurers and the contractual provisions of our reinsurance agreements. In the event that the credit worthiness of our reinsurers were to deteriorate, actual uncollectible amounts could be significantly greater than our provision for non-recoverability.

The Company uses a variety of methods to estimate uncollectible reinsurance, with the primary method being a default analysis. The primary components of the default analysis are reinsurance recoverable balances by reinsurer and default factors used to determine the portion of a reinsurer's balance deemed to be uncollectible. Default factors require considerable judgment and are determined using the current rating, or rating equivalent, of each reinsurer as well as other key considerations and assumptions.

The use of different assumptions within the model could have an effect on the provision for uncollectible reinsurance. To the extent the creditworthiness of the Company's reinsurers was to deteriorate due to an adverse event affecting the reinsurance industry, such as a large number of major catastrophes, actual uncollectible amounts could be significantly greater than the Company's provision.



**d. The valuation bases, assumptions and methods used to derive the value of other liabilities**

The carrying values of accounts payable and accrued expenses as well as other liabilities approximated their fair values at December 31, 2016, due to their respective short maturities.

**e. Any other material information**

None.

## 5. CAPITAL MANAGEMENT

### a. Eligible Capital

#### i. Description of the capital management policy and process of the insurance group to determine capital needs for business planning, how capital is managed and any material changes during the reporting period

The primary capital management objectives of the company are as follows:

1. Ensure sufficient capital to meet and/or exceed all applicable regulatory requirements;
2. Ensure sufficient capital to meet and/or exceed all applicable internal capital requirements as determined by the Company's risk management framework;
3. Maintain some amount of excess capital over and above items 1 and 2; and
4. Return true excess capital above items 1, 2, and 3 to the Company's shareholders.

These requirements include, but are not limited to the following:

#### Regulatory requirements

Minimum capital and/or solvency standards exist for the Company and its subsidiaries in many of the jurisdictions in which it operates. These jurisdictions and capital requirements/models include:

1. Bermuda - BMA - Bermuda Solvency Capital Requirement ("BSCR") model;
2. Switzerland - Swiss Financial Market Supervisory Authority ("FINMA") - Swiss Solvency Test ("SST") model;
3. United Kingdom - Lloyd's, Financial Conduct Authority ("FSA") and Prudential Regulation Authority ("PRA") - Solvency II capital requirements; and
4. United States of America - National Association of Insurance Commissioners ("NAIC") - Risk Based Capital ("RBC") Framework.

#### Internal Capital Requirements

The Company operates under the guidance of an extensive ERM framework that has been established to identify, assess, quantify and manage risks and opportunities. A key element of the ERM framework is the Company's integrated Economic Capital Model ("ECM") framework to facilitate the consistent evaluation of risk and capital.

The Company regularly uses both regulatory and internal capital requirements to assess the overall capital position and that of subsidiary companies. To the extent that excess capital exists over and above these requirements, Company management can and regularly does find the most effective means to return this additional excess capital to the Company's owners, the common shareholders of Validus Holdings, Ltd. Methods of excess capital return to common shareholders includes but is not limited to: common share open market repurchases, common share tender offers, regular common share dividends and extraordinary common share dividends.

#### ii. Description of the eligible capital of the Validus Reinsurance, Ltd. and Validus Holdings Group categorized by tiers in accordance with the Eligible Capital Rules

As at December 31, 2016, Eligible Capital for Validus Reinsurance, Ltd. and Validus Holdings Group was categorized as follows:

(Dollars in thousands)	Validus Reinsurance, Ltd.	
	December 31, 2016	
Tier 1 Capital .....	\$	3,968,022
Tier 2 Capital .....		527,121
Tier 3 Capital .....		—
<b>Total Eligible Capital .....</b>	<b>\$</b>	<b>4,495,143</b>

The majority of Eligible Capital for Validus Reinsurance, Ltd. is Tier 1, the highest quality capital, consisting of capital stock, contributed surplus and statutory surplus. Validus Reinsurance, Ltd. also has a modest amount of Tier 2 capital consisting of the excess of encumbered assets over the related policyholder obligations and subordinated debt approved as Tier 2 ancillary capital in the amount of \$247.4 million.

(Dollars in thousands)	Validus Holdings Group	
	December 31, 2016	
Tier 1 Capital.....	\$	4,304,153
Tier 2 Capital.....		1,222,870
Tier 3 Capital.....		247,426
<b>Total Eligible Capital</b> .....	\$	<b>5,774,449</b>

The majority of Eligible Capital for Validus Holdings Group is Tier 1, the highest quality capital, consisting of capital stock, contributed surplus, statutory surplus and minority interest. Validus Holdings Group also has Tier 2 capital consisting of the excess of encumbered assets over the related policyholder obligations as well as senior notes and subordinated debt approved as Tier 2 ancillary capital in the amount of \$535.2 million. The Tier 3 capital consists of the subordinated debt which has been approved as Tier 2 capital for Validus Reinsurance, Ltd. above.

### iii. Eligible capital by tiers

As at December 31, 2016, Eligible Capital for Validus Reinsurance, Ltd. and Validus Holdings Group as applied to its Minimum Margin of Solvency (“MSM”) and Enhanced Capital Requirement (“ECR”) was categorized as follows:

(Dollars in thousands)	Validus Reinsurance, Ltd.			
	December 31, 2016			
	Applied to MSM		Applied to ECR	
Tier 1 Capital.....	\$	3,968,022	\$	3,968,022
Tier 2 Capital.....		527,121		527,121
Tier 3 Capital.....		—		—
<b>Total</b> .....	\$	<b>4,495,143</b>	\$	<b>4,495,143</b>

(Dollars in thousands)	Validus Holdings Group			
	December 31, 2016			
	Applied to MSM		Applied to ECR	
Tier 1 Capital.....	\$	4,304,153	\$	4,304,153
Tier 2 Capital.....		1,076,038		1,222,870
Tier 3 Capital.....		—		247,426
<b>Total</b> .....	\$	<b>5,380,191</b>	\$	<b>5,774,449</b>

### iv. Confirmation that the insurance group’s eligible capital is subject to transitional arrangements as required under the Eligible Capital Rules

The senior notes and subordinated debt instruments approved as Eligible Capital are subject to transitional arrangements to 2026.

### v. Identification of any factors of the insurance group affecting encumbrances affecting the availability and transferability of capital to meet the Eligible Capital Rules

As at December 31, 2016, the Company had cash and cash equivalents, restricted cash, short-term investments and fixed maturity investments that were pledged during the normal course of business, of which certain assets were held in trust. Pledged assets are generally for the benefit of the Company’s cedants and policyholders, to support fully collateralized reinsurance transactions and to facilitate the accreditation of the Company by certain regulators. These assets are released to the Company upon the payment of the obligations or the expiration of the risk period.

### vi. Identification of ancillary capital instruments that have been approved by the Authority

Ancillary capital for Validus Reinsurance, Ltd. includes \$247.4 million of subordinated debt, with maturities ranging from 2036 to 2037, which was approved as Tier 2 Eligible Capital.

Ancillary capital for Validus Holdings Group includes \$535.2 million of senior notes and subordinated debt, with maturities ranging from 2036 to 2040, which was approved as Tier 2 Eligible Capital. Ancillary capital for Validus Holdings Group also includes Tier 3 Eligible Capital which consists of the subordinated debt approved as Tier 2 Eligible Capital for Validus Reinsurance, Ltd.

As noted above, the subordinated debt is subject to transition arrangements that expire in 2026.

**vii. Identification of differences in shareholder’s equity as stated in the financial statements versus available statutory capital and surplus**

Other than the impact of statutory based technical provision valuation techniques, significant differences between GAAP shareholders’ equity and available statutory capital and surplus include an increase in available statutory capital and surplus for minority interests, as well as senior notes, subordinated debt and preference shares approved as other fixed capital; and a reduction in available statutory capital for goodwill, other intangible assets and prepaid expenses.

**b. Regulatory Capital Requirements**

**i. Identification of the amount of the Validus Reinsurance, Ltd. and Validus Holdings Group ECR and MSM at the end of the reporting period**

As at December 31, 2016, the regulatory capital requirements for Validus Reinsurance, Ltd. and Validus Holdings Group were assessed as follows:

(Dollars in thousands)	December 31, 2016	
	Validus Reinsurance, Ltd.	Validus Holdings Group
MSM.....	\$ 730,763	\$ 1,694,473
ECR.....	\$ 1,447,018	\$ 1,694,473

**ii. Identification of any non-compliance by the insurance group with the MSM and the ECR**

As at December 31, 2016, the Company was compliant with the MSM and ECR requirement.

**iii. Description of the amount and circumstances surrounding the insurance group’s non-compliance, the remedial measures taken and their effectiveness**

Not applicable.

**iv. Where the non-compliance has not been resolved, a description of the amount of the non-compliance of the insurance group at the end of the reporting period**

Not applicable.

**c. Approved Internal Capital Model**

Not applicable.

## **6. SIGNIFICANT EVENT**

### **a. A description of the significant event**

#### **i. Acquisition of ADM Crop Risk Services**

On May 1, 2017, the Company completed its acquisition of Archer Daniels Midland Company's ("ADM") Crop Risk Services ("CRS"). CRS is a primary crop insurance general agent with 1,170 agents across 36 states within the U.S. Under the terms of the transaction, ADM received \$127.5 million in cash, subject to certain working capital and balance sheet adjustments, in exchange for 100% of the outstanding stock of CRS.

#### **ii. Preferred Share Issuance**

On June 20, 2017, the Company issued 10,000 shares of its 5.800% Non-Cumulative Preferred Shares, Series B (the "Series B Preferred Shares") (equivalent to 10,000,000 Depositary Shares, each of which represents a 1/1,000th interest in a Series B Preferred Share), \$0.175 par value and \$25,000 liquidation preference per share (equivalent to \$25 per Depositary Share). The Series B Preferred Shares were registered and sold under the Securities Act of 1933, as amended, and were issued at a price to the public of \$25,000 per share (equivalent to \$25 per Depositary Share). After underwriting discounts and expenses, the Company expects to receive net proceeds of approximately \$242.1 million which will be used for general corporate purposes.

### **b. Date of the significant event**

Refer to Section 6a above.

### **c. Impact of event on information included within the most recent filed financial condition report**

Refer to Section 6a above.

### **d. Any other material information**

None.

**Validus Holdings, Ltd.**  
**List of Subsidiaries**

Subsidiary	Jurisdiction	Ownership Interest Held By Immediate Parent 100% unless otherwise indicated
<b>Validus Holdings, Ltd.</b> .....	Bermuda	
Validus Reinsurance, Ltd. ....	Bermuda	
Underwriting Risk Services S.A. ....	Chile	99.0%
AlphaCat Re 2011 Ltd. ....	Bermuda	22.3%
AlphaCat Re 2012 Ltd. ....	Bermuda	37.9%
AlphaCat 2013, Ltd. ....	Bermuda	19.7%
AlphaCat 2014, Ltd. ....	Bermuda	19.6%
AlphaCat 2015, Ltd. ....	Bermuda	20.0%
BetaCat Ltd. ....	Bermuda	
Validus Holdings (UK) Plc. ....	United Kingdom	
Validus Specialty, Inc. ....	Delaware	
AlphaCat Capital Inc. ....	Delaware	
Validus Underwriters, Inc. ....	Massachusetts	
Validus America, Inc. ....	Delaware	
Validus Services, Inc. ....	Delaware	
Validus Reaseguos, Inc. ....	Florida	
Validus Re Americas, (New Jersey) Inc. ....	New Jersey	
Talbot Underwriting Services (US), Ltd. ....	Delaware	
Western World Insurance Group, Inc. ....	Delaware	
Western World Insurance Company ....	New Hampshire	
Stratford Insurance Company ....	New Hampshire	
Tudor Insurance Company ....	New Hampshire	
Westco Insurance Managers, Inc. ....	New Jersey	
Westco Claims Management Services, Inc. ....	New Jersey	
Flagstone Reinsurance (Luxembourg), SARL ....	Luxembourg	
Validus Risk Services (Ireland) Limited. ....	Ireland	
Validus Reinsurance (Switzerland) Ltd. ....	Switzerland	
LP. Holding Limited ....	Cyprus	
Limassol Power Plant Limited ....	Cyprus	
Flagstone Africa (PTY) Limited ....	South Africa	
Validus Research Inc. ....	Ontario	
IPCRe Limited. ....	Bermuda	
Validus UPS, Ltd. ....	Bermuda	
Flagstone (Bermuda) Holdings Limited ....	Bermuda	
IAL Leasing Ltd. ....	Bermuda	
Mont Fort Re Ltd. ....	Bermuda	
Flagstone (Mauritius) Limited ....	Mauritius	
Flagstone Underwriting Support Services (India) Pvt. ....	India	99.0%
Validus Services (Bermuda), Ltd. ....	Bermuda	

Subsidiary	Jurisdiction	Ownership Interest Held By Immediate Parent 100% unless otherwise indicated
Validus Ventures Ltd.....	Bermuda	
AlphaCat Managers Ltd. ....	Bermuda	
AlphaCat Advantage Fund Ltd. ....	Bermuda	
AlphaCat Reinsurance Ltd. ....	Bermuda	
AlphaCat Diversified Fund Ltd.....	Bermuda	
AlphaCat Master Fund Ltd. ....	Bermuda	
BetaCat Fund Ltd. ....	Bermuda	
BetaCat Feeder Fund I Ltd. ....	Bermuda	
AlphaCat Prima Fund Ltd. ....	Bermuda	
AlphaCat Soteria Fund Ltd. ....	Bermuda	
AlphaCat Opportunities Ltd.....	Bermuda	
Talbot Holdings Ltd. ....	Bermuda	
Talbot Capital Ltd.....	Bermuda	
Talbot 2002 Underwriting Capital Ltd. ....	United Kingdom	
Talbot Underwriting Holdings Ltd. ....	United Kingdom	
Talbot Underwriting Services, Ltd.....	United Kingdom	
Talbot Underwriting Ltd. ....	United Kingdom	
Talbot Underwriting (LATAM) S.A. ....	Chile	99.0%
Talbot Risk Services Pte, Ltd.....	Singapore	
Talbot Underwriting (MENA) Ltd.....	Dubai	
Talbot Risk Services (Labuan) Pte. Ltd.....	Labuan	
Talbot Underwriting Risk Services, Ltd. ....	United Kingdom	
Talbot Insurance (Bermuda), Ltd. ....	Bermuda	
Talbot Underwriting Capital Ltd. ....	United Kingdom	