
Reconciliation of Diluted EPS Excluding LCM Adjustments to Diluted EPS

	Three Months Ended			Years Ended December 31,		
	December 31, 2014	September 30, 2015	December 31, 2015	2013	2014	2015
Diluted Earnings Per Share Excluding LCM Adjustments	\$ 2.48	\$ 2.80	\$ 2.20	\$ 6.76	\$ 8.92	\$ 10.35
Less:						
LCM Adjustments	0.91	0.25	0.42	-	0.92	0.75
Diluted Earnings Per Share	<u>\$ 1.57</u>	<u>\$ 2.55</u>	<u>\$ 1.78</u>	<u>\$ 6.76</u>	<u>\$ 8.00</u>	<u>\$ 9.60</u>

Reconciliation of EBITDA Excluding LCM Adjustments to EBITDA

In Millions of Dollars	Year Ended		Three Months Ended				Year Ended		Three Months Ended			Year Ended	
	December 31, 2013	March 31, 2014	June 30, 2014	September 30, 2014	December 31, 2014	December 31, 2014	December 31, 2014	March 31, 2015	June 30, 2015	September 30, 2015	December 31, 2015	December 31, 2015	December 31, 2015
EBITDA Excluding LCM Adjustments:													
Olefins & Polyolefins - Americas	\$ 3,573	\$ 736	\$ 978	\$ 1,202	\$ 1,274	\$ 4,190	\$ 1,074	\$ 993	\$ 920	\$ 834	\$ 3,821	\$ 3,821	
Olefins & Polyolefins - EAI	839	356	319	343	392	1,410	357	492	555	451	1,855	1,855	
Intermediates & Derivatives	1,492	375	430	383	364	1,552	381	483	506	286	1,656	1,656	
Refining	182	129	137	110	33	409	154	154	143	68	519	519	
Technology	232	76	71	41	44	232	76	57	45	65	243	243	
Other	(7)	(4)	6	1	14	17	2	(2)	13	(26)	(13)	(13)	
Total	<u>6,311</u>	<u>1,668</u>	<u>1,941</u>	<u>2,080</u>	<u>2,121</u>	<u>7,810</u>	<u>2,044</u>	<u>2,177</u>	<u>2,182</u>	<u>1,678</u>	<u>8,081</u>	<u>8,081</u>	
Less:													
LCM Adjustments:													
Olefins & Polyolefins - Americas	-	-	-	45	234	279	43	(21)	79	59	160	160	
Olefins & Polyolefins - EAI	-	-	-	-	44	44	-	-	6	24	30	30	
Intermediates & Derivatives	-	-	-	-	93	93	44	17	46	74	181	181	
Refining	-	-	-	-	344	344	5	(5)	50	127	177	177	
Technology	-	-	-	-	-	-	-	-	-	-	-	-	
Other	-	-	-	-	-	-	-	-	-	-	-	-	
Total	<u>-</u>	<u>-</u>	<u>-</u>	<u>45</u>	<u>715</u>	<u>760</u>	<u>92</u>	<u>(9)</u>	<u>181</u>	<u>284</u>	<u>548</u>	<u>548</u>	
EBITDA:													
Olefins & Polyolefins - Americas	3,573	736	978	1,157	1,040	3,911	1,031	1,014	841	775	3,661	3,661	
Olefins & Polyolefins - EAI	839	356	319	343	348	1,366	357	492	549	427	1,825	1,825	
Intermediates & Derivatives	1,492	375	430	383	271	1,459	337	466	460	212	1,475	1,475	
Refining	182	129	137	110	(311)	65	149	159	93	(59)	342	342	
Technology	232	76	71	41	44	232	76	57	45	65	243	243	
Other	(7)	(4)	6	1	14	17	2	(2)	13	(26)	(13)	(13)	
Total	<u>\$ 6,311</u>	<u>\$ 1,668</u>	<u>\$ 1,941</u>	<u>\$ 2,035</u>	<u>\$ 1,406</u>	<u>\$ 7,050</u>	<u>\$ 1,952</u>	<u>\$ 2,186</u>	<u>\$ 2,001</u>	<u>\$ 1,394</u>	<u>\$ 7,533</u>	<u>\$ 7,533</u>	

Reconciliation of Net Income To EBITDA

	Year Ended		Three Months Ended			Year Ended		Three Months Ended			Year Ended
	December 31, 2013	March 31, 2014	June 30, 2014	September 30, 2014	December 31, 2014	December 31, 2014	March 31 2015	June 30, 2015	September 30, 2015	December 31, 2015	December 31, 2015
<u>In Millions of Dollars.</u>											
Net Income	\$ 3,853	\$ 944	\$ 1,176	\$ 1,257	\$ 791	\$ 4,168	\$ 1,164	\$ 1,329	\$ 1,186	\$ 795	\$ 4,474
(Income) Loss from Discontinued Operations	7	(1)	(3)	3	5	4	3	(3)	3	2	5
LCM Adjustments, After Tax	-	-	-	28	455	483	58	(6)	114	185	351
Income from Continuing Operations Excluding LCM Adjustments	3,860	943	1,173	1,288	1,251	4,655	1,225	1,320	1,303	982	4,830
Less:											
LCM Adjustments, After Tax	-	-	-	(28)	(455)	(483)	(58)	6	(114)	(185)	(351)
Income from Continuing Operations	3,860	943	1,173	1,260	796	4,172	1,167	1,326	1,189	797	4,479
Provision for Income Taxes	1,136	383	425	434	298	1,540	440	541	487	262	1,730
Depreciation and Amortization	1,021	256	254	262	247	1,019	287	247	248	265	1,047
Interest expense, net	294	86	89	79	65	319	58	72	77	70	277
Add:											
LCM Adjustments, Pre Tax	-	-	-	45	715	760	92	(9)	181	284	548
EBITDA Excluding LCM Adjustments	6,311	1,668	1,941	2,080	2,121	7,810	2,044	2,177	2,182	1,678	8,081
Less:											
LCM Adjustments, Pre Tax	-	-	-	(45)	(715)	(760)	(92)	9	(181)	(284)	(548)
EBITDA	<u>\$ 6,311</u>	<u>\$ 1,668</u>	<u>\$ 1,941</u>	<u>\$ 2,035</u>	<u>\$ 1,406</u>	<u>\$ 7,050</u>	<u>\$ 1,952</u>	<u>\$ 2,186</u>	<u>\$ 2,001</u>	<u>\$ 1,394</u>	<u>\$ 7,533</u>

Reconciliation of Operating Income Excluding LCM Adjustments to Operating Income

<u>In Millions of Dollars</u>	<u>Three Months Ended</u>				<u>Year Ended</u>
	<u>March 31,</u> <u>2015</u>	<u>June 30,</u> <u>2015</u>	<u>September 30,</u> <u>2015</u>	<u>December 31,</u> <u>2015</u>	<u>December 31,</u> <u>2015</u>
Operating Income Excluding LCM	\$ 1,667	\$ 1,836	\$ 1,831	\$ 1,336	\$ 6,670
Less:					
LCM Inventory Valuation Adjustment	92	(9)	181	284	\$ 548
Operating Income	<u>\$ 1,575</u>	<u>\$ 1,845</u>	<u>\$ 1,650</u>	<u>\$ 1,052</u>	<u>\$ 6,122</u>

Reconciliation of Free Cash Flow to Net Cash Provided by Operating Activities

<u>In Million of Dollars</u>	Years Ended December 31,			
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Net Cash Provided by Operating Activities	\$ 4,787	\$ 4,835	\$ 6,048	\$ 5,842
Less:				
Capital Expenditures	<u>1,060</u>	<u>1,561</u>	<u>1,499</u>	<u>1,440</u>
Free Cash Flow	<u>\$ 3,727</u>	<u>\$ 3,274</u>	<u>\$ 4,549</u>	<u>\$ 4,402</u>

Calculation of LYB Return on Invested Capital (ROIC)

<u>In Million of Dollars</u>	<u>Years Ended December 31,</u>	
	<u>2014</u>	<u>2015</u>
Income from Continuing Operations		\$ 4,479
Add:		
Interest Expense, Net		277
Effective Tax Rate		<u>27.9%</u>
Interest Expense, Net, After Tax		<u>200</u>
Adjusted Income from Continuing Operations		<u>4,679</u>
Divided by:		
Average Invested Capital:		
Property, Plant & Equipment, Net	\$ 8,758	8,991
Current Assets	11,645	9,789
Less:		
Current Liabilities	5,437	4,349
Cash and Cash Equivalents	<u>1,031</u>	<u>924</u>
	<u>\$ 13,935</u>	<u>13,507</u>
Average Invested Capital		<u>\$ 13,721</u>
Return on Invested Capital		<u>34%</u>

Components of Cash and Liquid Investments

<u>In Millions of Dollars</u>	<u>December 31, 2014</u>	<u>September 30, 2015</u>	<u>December 31, 2015</u>
Cash and Cash Equivalents	\$ 1,031	\$ 1,474	\$ 924
Short-Term Investments	1,593	1,602	1,064
Repurchase Agreements	350	448	387
Cash and Liquid Investments	<u>\$ 2,974</u>	<u>\$ 3,524</u>	<u>\$ 2,375</u>

Reconciliation of Ratio of Total Debt to EBITDA and EBITDA excluding LCM

	<u>Year Ended</u>
<u>In Millions of Dollars</u>	<u>December 31,</u>
	<u>2015</u>
Current Maturities of Long-Term Debt	\$ 4
Short-Term Debt	353
Long-Term Debt	<u>7,671</u>
Total Debt	8,028
Divided by:	
EBITDA	<u>\$ 7,533</u>
Ratio of Total Debt to EBITDA	<u>1.1x</u>
Lower of Cost or Market (LCM) Inventory Valuation Adjustment	<u>548</u>
EBITDA excluding LCM	<u>\$ 8,081</u>
Ratio of Total Debt to EBITDA excluding LCM	<u>1.0 x</u>

Schedule of Spending for Dividends and Share Repurchases

<u>In Millions of Dollars</u>	<u>Years Ended December 31,</u>			
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Interim Dividends	\$ 833	\$ 1,127	\$ 1,403	\$ 1,410
Special Dividends	1,582	-	-	-
Total Dividends	2,415	1,127	1,403	1,410
Repurchases of Ordinary Shares	-	1,949	5,788	4,656
Total	<u>\$ 2,415</u>	<u>\$ 3,076</u>	<u>\$ 7,191</u>	<u>\$ 6,066</u>
