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EXERCISE 16-19

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December 31, 2011	Note	<u>Rate</u>	<u>Amount</u>
Interest paid	\$ 10,000,000	5.8%	\$ 580,000
Cash paid on swap			20,000
Interest expense	\$ 10,000,000	6%	\$ 600,000
(b) Interest Expense Cash	December 31, 2011	580,000) 580,000
Interest Expense		20,000)
Cash			20,000

<u>December 31, 2012</u> Interest paid	<u>Note</u>	<u>Rate</u>	<u>Amount</u>
	\$ 10,000,000	6.6%	\$ 660,000
Cash received on swap			(60,000)
Interest expense	\$ 10,000,000	6%	\$ 600,000

December 31, 2012		
Interest Expense	660,000	
Cash		660,000
Cash	60,000	
Interest Expense		60,000

(b) The interest rate swap is a cash flow hedge because the purpose in using the hedge is to protect Parton against variations in future cash flows caused by the changes in the LIBOR rate of interest. At the time of entering into the contract, Parton had not yet incurred the interest charges for the note. The cash flows are therefore related to future interest payments. Consequently the hedge cannot be a fair value hedge.

EXERCISE 16-20

(a) Cash	December 31, 2012	75,000	
Interest Revenue			75,000
(\$1,000,000 X 7	[.] .5%)		
(b)	December 31, 2012		
Cash		13,000	
Interest Revenue			13,000
(c)	December 31, 2012		
Derivatives – Trading		48,000	
Holding Gain			48,000
(d)	December 31, 2012		
Holding Loss (FV-NI).		48,000	
Investments in Bo	nds (FV-NI)		48,000

- (e) The interest rate swap is a fair value hedge in this situation because the interest rate exposure is from an existing asset, the bonds.
- (b) The interest rate swap can act as a cash flow hedge because the hedge allows Sarazan to participate in the potential for a higher return on its investment caused by an increase in variable interest rates in the future. At the time of entering into the contract, Sarazan had not yet earned the interest income from

its investment in bonds. The cash flows are therefore related to future interest receipts. Consequently the hedge can be a cash flow hedge. Sarazan decided to change from a fixed to variable rate of interest on its investment, using the hedge. Since the investment was already in place at the time of entering the hedge, it is a fair value hedge.

Problem 3 Integrated (Dependent) Operation

Calculation of Foreign Exchange Gain or Loss	DM		
Net Monetary Assets, Beginning of Year	(1,082,000.00)	0.45	(486,900.00)
Sales	3,150,000.00	0.48	1,512,000.00
Purchases	(1,512,000.00)	0.48	(725,760.00)
Other expenses	(672,000.00)	0.48	(322,560.00)
Dividends	(400,000.00)	0.50	(200,000.00)
PPE purchased	(126,000.00)	0.46	(57,960.00)
Net Monetary Assets, Calculated			(281,180.00)
•	(642,000.00)		
Net Monetary Assets, End of Year	(642,000.00)	0.50	(321,000.00)
Actual			
Foreign Exchange Gain			(39,820.00)

Sales	DM 3,150,000.00	0.48	1,512,000.00
	0,100,000100	0.40	1,512,000.00
Inventory Beginning	525,000.00	0.45	236,250.00
Purchases (Derived)	1,512,000.00	0.48	725,760.00
Inventory, Ending	357,000.00	0.49	(174,930.00)
Cost of sales	1,680,000.00		787,080.00
Depreciation expense	105,000.00	0.45	47,250.00
Depreciation expense	42,000.00	0.45	18,900.00
Depreciation expense	21,000.00	0.46	9,660.00
Other expense	672,000.00	0.48	322,560.00
	2,520,000.00		1,185,450.00
Income Before Foreign Exchange	630,000.00		326,550.00
Foreign Exchange Gain	-		(39,820.00)
Net Income	630,000.00		286,730.00
Dividends Paid	(400,000.00)	0.50	(200,000.00)
Retained Earnings, Beginning of Year	420,000.00	0.45	189,000.00
Retained earning, End of Year	650,000.00		275,730.00

	DM		
Cash	105,000.00	0.50	- 52,500.00
Accounts receivable	168,000.00	0.50	84,000.00
Inventory	357,000.00	0.49	174,930.00
Land	420,000.00	0.45	189,000.00
Buildings (net)	1,050,000.00	0.45	472,500.00
Equipment (net)	210,000.00	0.45	94,500.00
Equipment (net)	105,000.00	0.46	48,300.00
	2,415,000.00		1,115,730.00
Current liabilities	315,000.00	0.50	157,500.00
Bonds payable -due Dec. 31, 2018	600,000.00	0.50	300,000.00
Common stock Retained earnings	850,000.00 650,000.00	0.45 Above	382,500.00 275,730.00
	2,415,000.00		1,115,730.00

Problem 2 3 Self Sustaining (Independent) Operation

Calculation of Foreign Exchange Gain or Loss	DM		
Net Assets, Beginning of Year	1,270,000.00	0.45	571,500.00
Net Income	630,000.00	0.48	302,400.00
Dividends	(400,000.00)	0.50	(200,000.00)
Net Assets, Calculated			673,900.00
	1,500,000.00		070,000.00
Net Assets, End of Year	1,500,000.00	0.50	750,000.00
Actual			
Foreign Exchange Gain (Loss)			76,100.00
	DM		
Sales	3,150,000.00	0.48	1,512,000.00
Cost of sales	1,680,000.00	0.48	806,400.00
Depreciation expense	168,000.00	0.48	80,640.00
Other expense	672,000.00	0.48	322,560.00
	2,520,000.00		1,209,600.00
			1,200,000.00
Net Income	630,000.00		302,400.00
Dividends Paid	(400,000.00)	0.50	(200,000.00)
Retained Earnings, Beginning of Year	420,000.00	0.45	189,000.00
Retained earning, End of Year	650,000.00		291,400.00

	2012 DM		
Cash	105,000.00	0.50	52,500.00
Accounts receivable	168,000.00	0.50	84,000.00
Inventory	357,000.00	0.50	178,500.00
Land	420,000.00	0.50	210,000.00
Buildings (net)	1,050,000.00	0.50	525,000.00
Equipment (net)	315,000.00	0.50	157,500.00
	2,415,000.00		1,207,500.00
Current liabilities	315,000.00	0.50	157,500.00
Bonds payable -due Dec. 31, 2018	600,000.00	0.50	300,000.00
Common stock	850,000.00	0.45	382,500.00
Cumulative Translation Adjustment		Above	76,100.00
Retained earnings	650,000.00	Above	291,400.00
	2,415,000.00		1,207,500.00

Problem 4

\$1 = DM 2.5	0.40
\$1 = DM 2.1	0.48
\$1 = DM 1.9	0.53
\$1 = DM 1.7	0.59
\$1 = DM 2.2	0.45
\$1 = DM 2.7	0.37
\$1 = DM 2.9	0.34
\$1 = DM 2.4	0.42

-	ir Value Hedge			P&L	OCI		
German trar 8/01/06	isactions Inventory Accounts payable	180,000.00	180,000.00			A/P	
11/01/06	Forward contract receivable (spot) Forward contract payable (forward) Deferred foreign exchange	214,285.71 22,556.40	236,842.11			180,000.00 34,285.71 214,285.71	
11/01/06	Foreign exchange loss Accounts payable Unhedged to this point	34,285.71	34,285.71	(34,285.71)			
12/31/06	Forward contract receivable (spot) Foreign exchange gain Foreign exchange loss Accounts payable	50,420.17 50,420.17	50,420.17 50,420.17	50,420.17 (50,420.17)		166,666.67	
Cost of hedg	ge	0.53	0.48 0.05				
	Deferred foreign exchange Hedge revenue	32,296.65	22,556.39 32,296.65	32,296.65		Purchase FCUs Cost to exit the contract at year end	236,842.11 204,545.45
3/01/07	Accounts payable Foreign exchange gain Foreign exchange loss Forward contract receivable (spot)	98,039.22 98,039.22	98,039.22 98,039.22	98,039.22 (98,039.22)			32,296.65
	Accounts payable Forward contract receivable (spot) Forward contract payable (forward) Cash	166,666.67 236,842.11	166,667.67 236,842.11				
	Deferred foreign exchange Hedge expense	54,833.05	54,853.05	(54,853.05)			
	Loss while unhedged	34,285.71					
	Cost of hedge	22,556.39 56,842.10		(56,842.11)			

Hedged - Ca German trar			P&L	OCI		
8/01/06	Inventory Accounts payable	180,000.00	180,000.00			
	Forward contract receivable (spot) Forward contract payable (forward) OCI - foreign exchange Foreign exchange loss	214,285.71 22,556.40 34,285.71	236,842.11	(34,285.71)	(22,556.40)	A/P 180,000.00 34,285.71 214,285.71 bedged from here 50,420.17
	Accounts payable Unhedged to this point		34,285.71			<u>98,039.22</u> <u>-</u>
12/31/06	Forward contract receivable (spot) Foreign exchange gain Foreign exchange loss Accounts payable	50,420.17 50,420.17	50,420.17 50,420.17	50,420.17 (50,420.17)		166,666.67 Purchase FCUs 236,842.11
Cost of hedge		0.53	0.48 0.05			Cost to exit the contract at year end 204,545.45
	OCI - foreign exchange Hedge revenue	32,296.65	22,556.39 32,296.65	32,296.65	(32,296.65)	02,200,00
3/01/07	Accounts payable Foreign exchange gain Foreign exchange loss Forward contract receivable (spot)	98,039.22 98,039.22	98,039.22 98,039.22	98,039.22 (98,039.22)		
	Accounts payable Forward contract receivable (spot) Forward contract payable (forward) Cash	166,666.67 236,842.11	166,667.67 236,842.11			
	OCI - foreign exchange Hedge expense	54,833.05	54,853.05	<u>(54,853.05</u>)	54,853.05	

(56,842.11) -

Unhedged
German transactions

German trar					
8/01/06	Inventory Notes payable	180,000.00	180,000.00		
12/31/06	Foreign exchange loss Notes payable	84,705.88	84,705.88	Note payable 180,000.00 	
12/31/06	Interest expense (30,864 x 5/12) Interest payable Foreign exchange loss Calculated average Aug to Dec	7,142.86 1,680.67	8,823.53	264,705.88	
				CV 450,000.00 8%	Expense 5 36,000.00 5/12
				Average spot exchange	15,000.00 2.10
				Interest expense	7,142.86
				Interest payable Year end rate	15,000.00 1.70

8,823.53