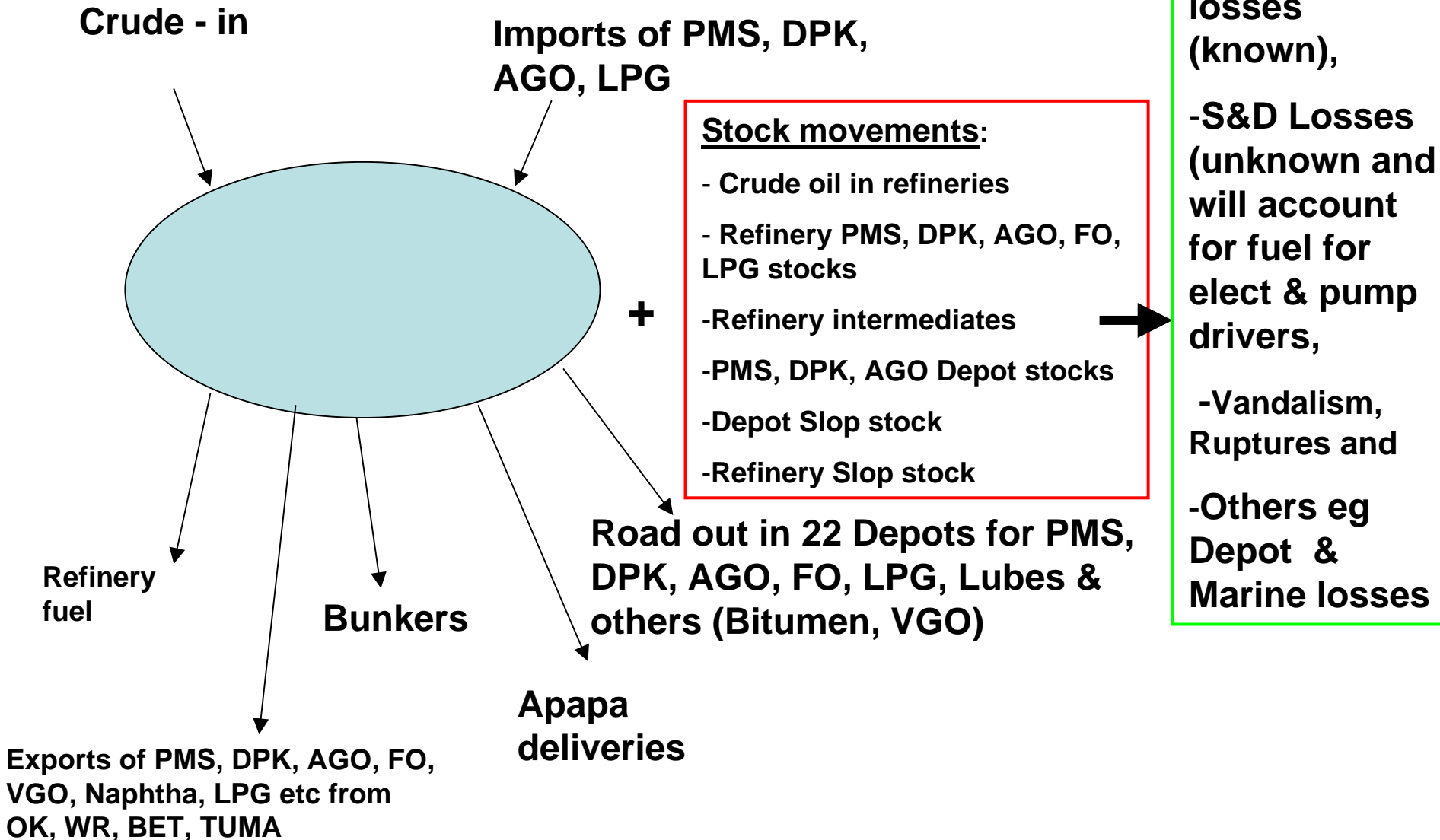


Appendix K
This material was provided by NNPC PPMC

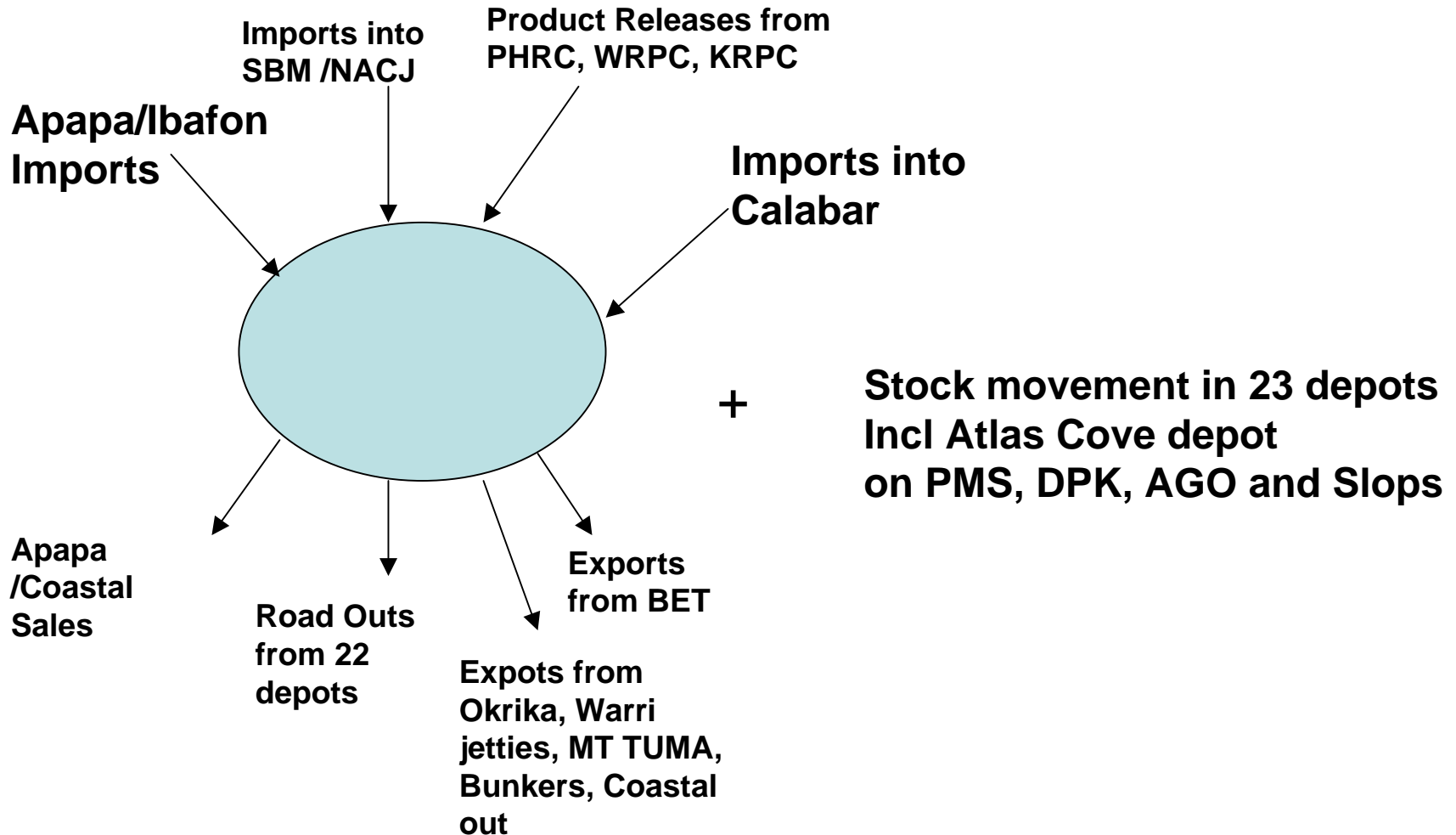
PRINCIPLES OF NNPC DOWNSTREAM HYDROCARBON MASS BALANCE

PPMC, 10TH DEC 2006

DOWNSTREAM MASS BALANCE



PPMC Mass Balance (PMS, DPK, AGO, FO)



PPMC Balance

Grand total for PMS, DPK, AGO, Fuel oil, LPG (Tons)

	Total in	Total out	Stock mov't	Difference
1999	11,070,355	9,746,307	178,874	-1,145,174
2000	10,911,422	10,006,564	-1,989	-906,847
2001	15,319,884	14,616,938	311,173	-391,772
2002	14,745,561	13,895,718	-123,881	-973,724
2003	12,922,579	12,605,054	-166,462	-483,987
2004	11,366,320	11,546,592	69,562	249,834
Grand total	76,336,121	72,417,173	267,277	-3,651,670

PPMC Summary (Tons)

PMS Summary (Total)

	Total in	Total Out	Stock mov't	Difference
1999	3,838,927	3,535,307	37,699	-265,921
2000	5,257,747	4,819,456	7,756	-430,534
2001	6,445,936	6,336,364	170,388	60,816
2002	6,783,116	6,571,362	-63,516	-275,270
2003	6,780,620	6,414,153	-98,614	-465,080
2004	6,551,630	6,054,912	128,149	-368,569
Total	35,657,975	33,731,555	181,862	-1,744,559

DPK Summary (Tons)

	Total in	Total out	Stock mov't	Difference
1999	1,797,288	1,381,576	42,446	-373,266
2000	1,727,262	1,215,770	-18,950	-530,442
2001	2,404,291	1,780,315	30,370	-593,606
2002	2,092,043	1,988,565	-21,859	-125,337
2003	1,609,557	1,483,018	36,607	-89,932
2004	1,583,196	1,240,201	-43,290	-386,285
Total	11,213,636	9,089,446	25,324	-2,098,866

AGO Summary (Tons)

	Total in	Total out	Stock mov't	Difference
1999	2,412,378	2,082,202	13,448	-316,728
2000	2,257,781	1,905,660	85,226	-266,895
2001	3,226,206	3,275,919	114,681	164,394
2002	2,847,554	2,874,236	-40,419	-13,737
2003	2,664,775	2,430,606	-100,533	-334,702
2004	1,383,417	1,634,342	-13,422	237,503
Total	14,792,111	14,202,966	58,981	-530,163

FUEL OIL (Tons)

	Total in	Total out	Stock mov't	Difference
1999	2,976,621	2,718,756	85,281	-172,584
2000	1,663,360	2,062,423	-76,021	323,042
2001	3,176,047	3,205,357	-4,266	25,044
2002	2,943,617	2,431,275	1,913	-510,430
2003	1,842,032	2,260,121	-3,922	414,167
2004	1,848,076	2,617,136	-1,875	767,185
Total	14,449,754	15,295,068	1,110	846,424

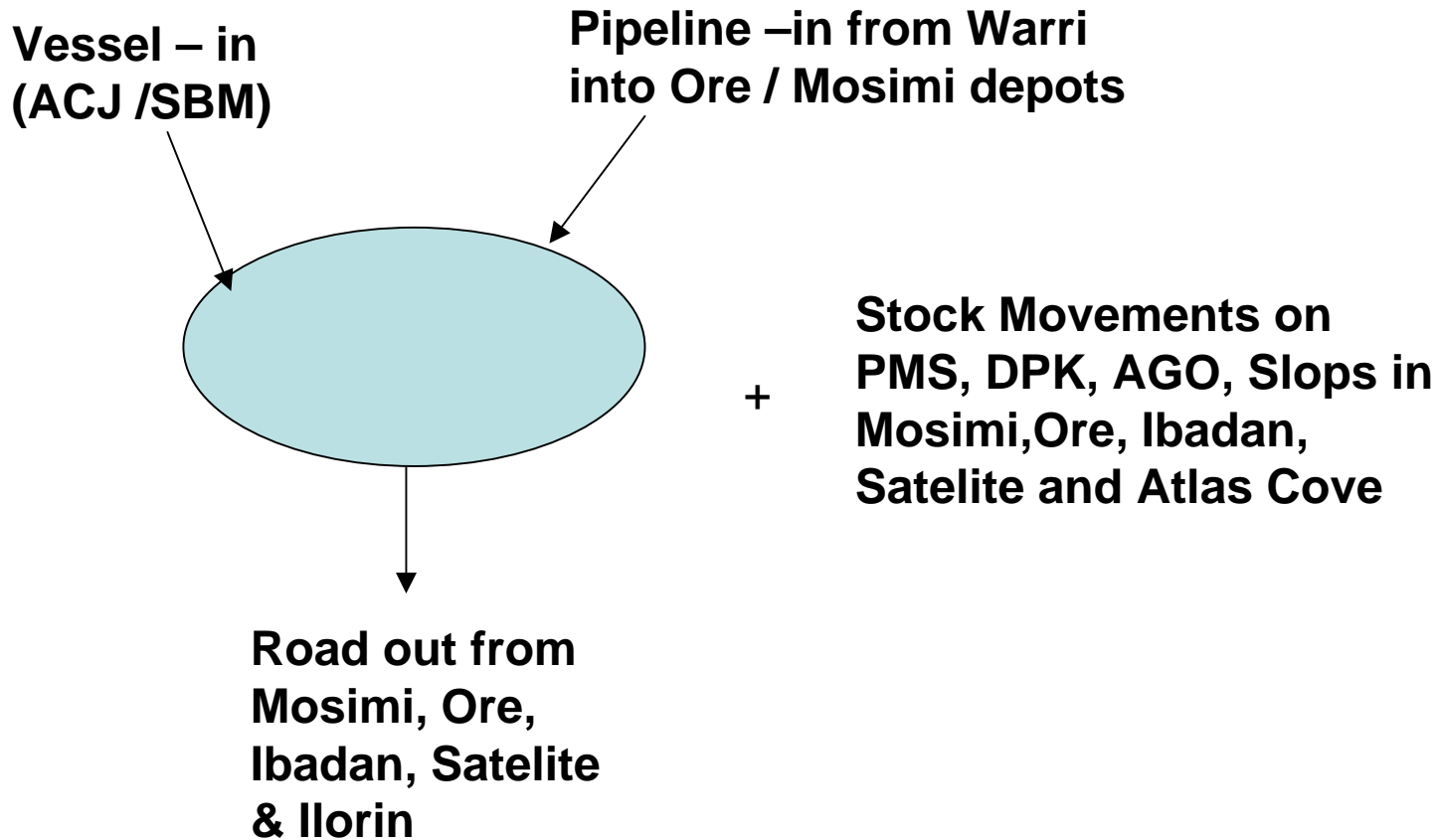
LPG (Tons)

	Total in	Total out	Stock mov't	Difference
1999	45,141	28,466	0	-16,675
2000	5,273	3,255	0	-2,018
2001	67,404	18,983	0	-48,421
2002	79,231	30,280	0	-48,951
2003	25,596	17,155	0	-8,441
2004	0	0	0	0
Total	222,645	98,139	0	-124,506

Grand total for PMS, DPK, AGO, Fuel oil, LPG (Tons)

	Total in	Total out	Stock mov't	Difference
1999	11,070,355	9,746,307	178,874	-1,145,174
2000	10,911,422	10,006,564	-1,989	-906,847
2001	15,319,884	14,616,938	311,173	-391,772
2002	14,745,561	13,895,718	-123,881	-973,724
2003	12,922,579	12,605,054	-166,462	-483,987
2004	11,366,320	11,546,592	69,562	249,834
Grand total	76,336,121	72,417,173	267,277	-3,651,670

MOSIMI AREA BALANCE



MOSIMI AREA WHITE PRODUCTS

YAER	Total in	Total out	stock mov't	Difference
1999	2,352,514	1,678,799	28,219	-645,496
2000	2,616,182	1,879,582	-19,439	-756,039
2001	2,730,661	2,188,062	103,617	-438,982
2002	2,560,347	2,179,492	-18,808	-399,663
2003	2,345,678	2,284,110	67,757	6,189
2004	2,819,580	2,658,041	-47,636	-209,175
TOTAL	15,424,962	12,868,086	113,710	-2,443,166

MOSIMI AREA

PMS DEPOTS SUMMARY

YEAR	Total in	Total out	stock mov'l	Difference
1999	1,638,290	1,184,571	25,360	-428,359
2000	1,776,363	1,232,506	-3,544	-547,401
2001	2,053,071	1,556,266	81,223	-415,582
2002	2,132,391	1,777,937	-18,670	-373,124
2003	1,900,973	1,897,674	-46,377	-49,676
2004	2,658,767	2,448,136	77,093	-133,538
TOTAL	12,159,855	10,097,090	115,085	-1,947,680

DPK DEPOTS SUMMARY

YAER	Total in	Total out	stock mov'l	Difference
1999	251,506	203,550	1,107	-46,849
2000	371,361	274,857	-9,118	-105,622
2001	292,668	249,864	17,412	-25,392
2002	201,842	176,443	-8,224	-33,623
2003	111,053	94,064	57,022	40,033
2004	39,670	43,044	-57,451	-54,077
TOTAL	1,268,100	1,041,822	748	-225,530

AGO DEPOTS SUMMARY

YAER	Total in	Total out	stock mov'l	Difference
1999	462,718	290,678	1,752	-170,288
2000	468,458	372,219	-6,777	-103,016
2001	384,922	381,932	4,982	1,992
2002	226,114	225,112	8,086	7,084
2003	333,652	292,372	57,112	15,832
2004	121,143	166,861	-67,278	-21,560
TOTAL	1,997,007	1,729,174	-2,123	-269,956

SUMMARY OF WHITE PRODUCT MOSIMI AREA				
YAER	Total in	Total out	stock mov'l	Difference
1999	2,352,514	1,678,799	28,219	-645,496
2000	2,616,182	1,879,582	-19,439	-756,039
2001	2,730,661	2,188,062	103,617	-438,982
2002	2,560,347	2,179,492	-18,808	-399,663
2003	2,345,678	2,284,110	67,757	6,189
2004	2,819,580	2,658,041	-47,636	-209,175
TOTAL	15,424,962	12,868,086	113,710	-2,443,166

REASONS FOR DIFFERENCES

- Vandalisation losses. Between 1999 – 2004, there were 372 cases of vandalism

- Losses from pipeline Fires

- Losses from pipeline ruptures (River crossing)

- Floating operation between Atlas Cove and Mosimi

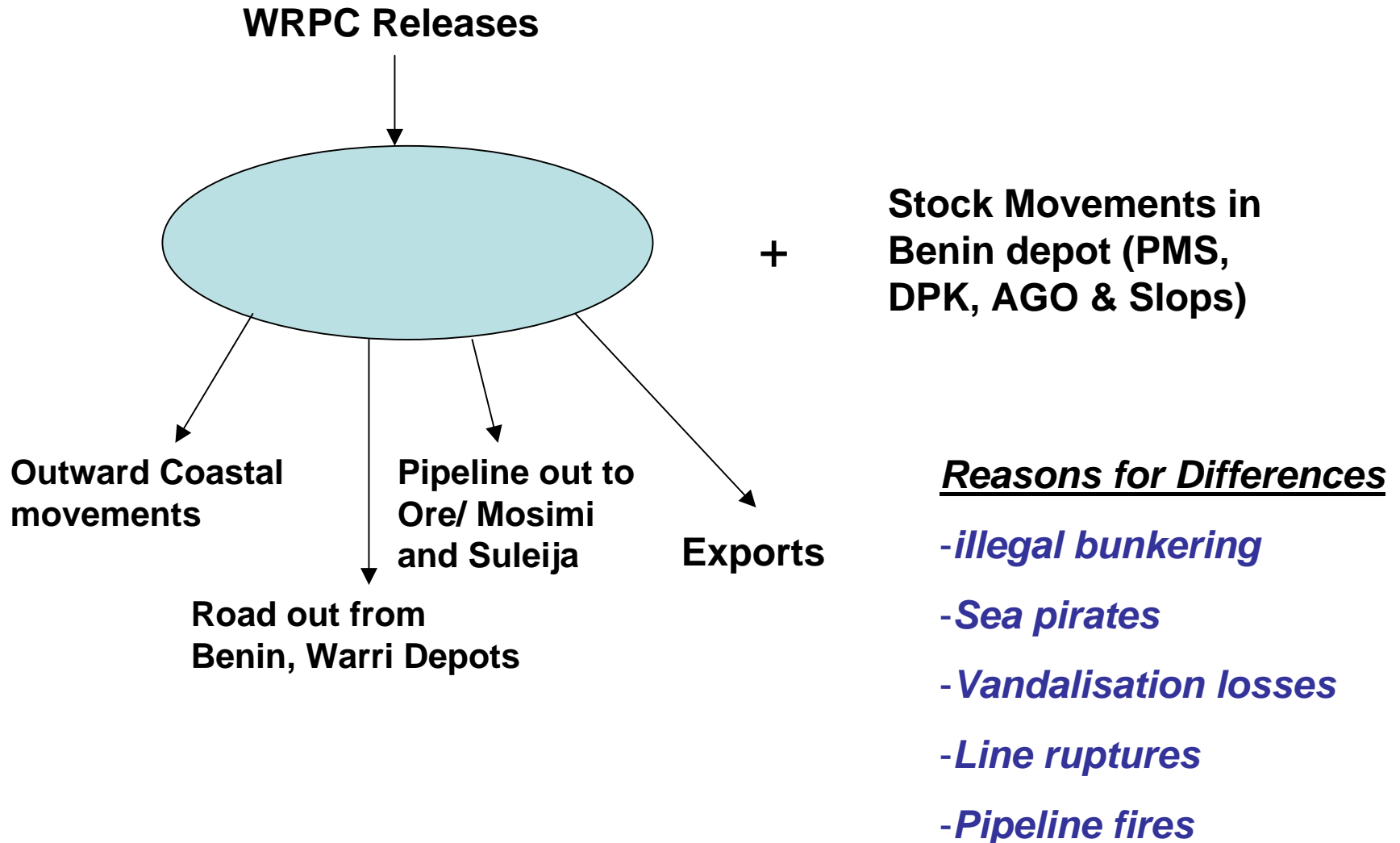
- Evaporation losses

- Line Fills during recommissioning of lines

- Illegal bunkering /theft

- Cross-border product theft / leakage

WARRI AREA BALANCE



WARRI AREA

Year	Total in	Total out	Stock mov't	Difference
1999	4,637,720	3,284,516	65,519	-170,735
2000	2,916,684	2,742,988	18,336	-155,360
2001	4,989,492	4,989,293	1,704	1,506
2002	5,284,443	5,292,859	25,584	34,000
2003	2,967,555	2,981,674	-29,223	-15,103
2004	2,944,228	2,824,574	4,229	-115,425
Total	23,740,121	22,115,904	86,149	-438,075

708 cases of vandalism in 6 yrs. Among several fires, Jesse fire led to the death of over a 1000 people while collecting products from a vandalised point

SUMMARY OF WARRI MASS BALANCE

WARRI AREA SUMMARY

Crude Pipeline

Year	Pumped	Ex WR	Received	KRPC	Stock mov't	Difference
1999	1,440,118		1,241,284		62,455	-136,379
2000	1,289,826		1,277,388		-117	-12,555
2001	1,865,588		1,888,490		44	22,946
2002	1,851,913		1,922,901		-80	70,908
2003	706,956		741,991		2,201	37,236
2004	1,526,382		1,482,468		-306	-44,220
Total	8,680,783		8,554,522		64,197	-62,064

Stocks are from KRPC dedicated crude tanks in WRPC

PMS Pipeline

Year	Pumped	Ex WR	Depots Received	Stock Mov't	Difference
1999	211,519		231,462	0	19,943
2000	156,692		91,729	0	-64,963
2,001	416,619		404,206	0	-12,413
2002	423,394		518,783	0	95,389
2003	532,389		494,198	0	-38,191
2004	462,382		399,798	0	-62,584
Total	2,202,995		2,140,176	0	-62,819

LPG depot summary

Year	Total in	Total out	Stock mov't	Difference
1999	16,862	15,851	0	-1,011
2000	3,666	1,618	0	-2,048
2001	4,120	2,433	0	-1,687
2002	13,776	10,098	0	-3,678
2003	2,579	2,457	0	-122
2004	0	0	0	0
Total	41,003	32,457	0	-8,546

PMS depot summary

Year	Total in	Total out	Stock mov't	Difference
1999	532,591	526,140	-3,276	-9,727
2000	725,685	758,187	-180	32,322
2001	932,116	942,032	11,541	21,457
2002	1,055,843	957,292	12,385	-86,166
2003	922,461	942,787	-16,200	4,126
2004	750,719	750,104	1,297	682
Total	4,919,415	4,876,542	5,567	-37,306

DPK Pipeline

Year	TOTAL IN	Depots Received	Stock Mov't	Difference
1999	266,830	239,541	0	-27,289
2000	102,556	64,878	0	-37,678
2,001	245,524	240,003	0	-5,521
2002	316,838	308,943	0	-7,895
2003	125,852	110,945	0	-14,907
2004	8,531	6,336	0	-2,195
Total	1,066,131	970,646	0	-95,485

DPK depot summary

Year	Total in	Total out	Stock mov't	Difference
1999	392,904	385,545	7,066	-293
2000	228,679	215,798	4,139	-8,742
2001	460,823	451,811	-10,672	-19,685
2002	501,808	484,597	12,708	-4,503
2003	212,011	224,784	-12,561	212
2004	52,474	46,328	6,335	189
Total	1,848,700	1,808,863	7,015	-32,822

AGO Pipeline

Year	Pumped	Ex WR	Depots Received	Stock Mov't	Difference
1999	114,219		97,588	0	-16,631
2000	114,034		53,472	0	-60,562
2,001	373,807		370,533	0	-3,274
2002	354,578		329,530	0	-25,048
2003	142,646		138,532	0	-4,114
2004	12,545		4,164	0	-8,381
Total	1,111,829		993,819	0	-118,010

AGO depot summary

Year	Total in	Total out	Stock mov't	Difference
1999	545,727	547,105	-726	652
2000	295,546	279,918	14,494	-1,134
2001	690,894	689,786	791	-318
2002	766,293	760,715	571	-5,007
2003	322,661	325,980	-2,663	656
2004	131,195	135,376	-3,097	1,084
Total	2,752,316	2,738,880	9,370	-4,067

TOTAL PIPELINE DIFFERENCE

Year	Pumped	Received	Stock mov't	Difference
1999	2,032,686	1,809,875	62,455	-160,356
2000	1,663,108	1,487,467	-117	-175,758
2,001	2,901,538	2,903,232	44	1,738
2002	2,946,723	3,080,157	-80	133,354
2003	1,507,843	1,485,666	2,201	-19,976
2004	2,009,840	1,892,766	-306	-117,380
Grand Total	13,061,738	12,659,163	64,197	-338,378

Fuel Oil depot summary

Year	Total in	Total out	Stock mov't	Difference
1999	990,723	888,469	0	-102,254
2000	179,222	688,113	0	508,891
2001	889,760	802,137	0	-87,623
2002	1,250,876	720,331	0	-530,545
2003	387,045	690,369	0	303,324
2004	157,160	828,222	0	671,062
Total	3,854,787	4,617,643	0	762,856

EXPORT Difference

Year	Shore pumped	Ship Received	BL	Difference
1999	1,116,949	1,124,110		7,161
2000	727,844	738,694		10,850
2,001	888,878	895,250		6,372
2002	838,076	848,743		10,667
2003	737,714	749,193		11,479
2004	897,948	908,288		10,340
Grand Total	5,207,409	5,264,279	0	56,870

TOTAL WARRI AREA DEPOTS DIFFERENCE

Year	Total in	Total out	Stock mov't	Difference
1999	1,488,084	1,474,641	3,064	-10,379
2000	1,253,576	1,255,521	18,453	20,398
2001	2,087,954	2,086,061	1,660	-232
2002	2,337,720	2,212,702	25,664	-99,354
2003	1,459,712	1,496,008	-31,424	4,873
2004	934,388	931,808	4,535	1,955
Total	9,561,434	9,456,741	21,952	-82,741

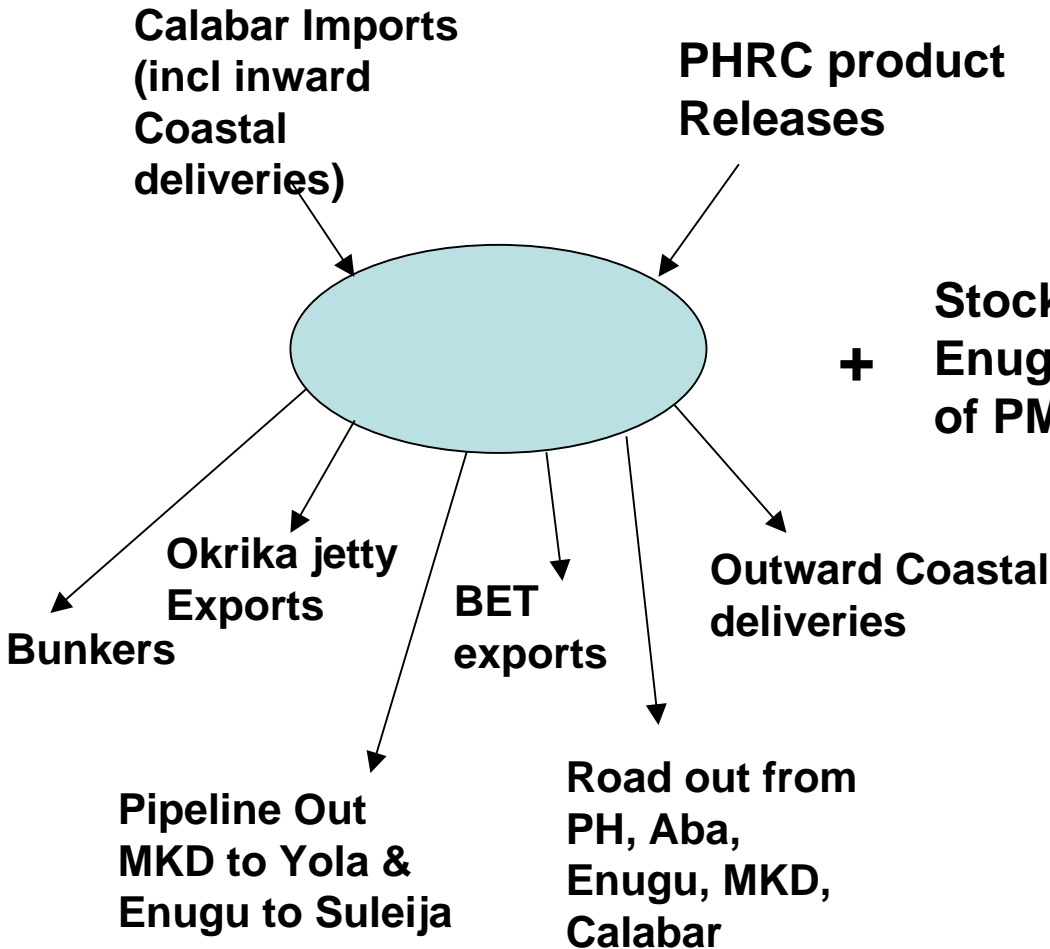
Import Difference

Year	Ship Arrival fig	Shore received	ROB	Difference
1999	115,565	112,143		-3,422
2000	956,595	932,674		-23,921
2,001	420,488	409,006		-11,483
2002	456,479	449,687		-6,792
2003	859,121	844,081		-15,040
2004	778,919	765,752		-13,168
Grand Total	3,587,168	3,513,342	0	-73,826

Estimated WARRI GLOBAL LOSSES ON CRUDE AND PRODUCTS

Year	Total in	Total out	Stock mov't	Difference
1999	4,637,720	3,284,516	65,519	-170,735
2000	2,916,684	2,742,988	18,336	-155,360
2001	4,989,492	4,989,293	1,704	1,506
2002	5,284,443	5,292,859	25,584	34,000
2003	2,967,555	2,981,674	-29,223	-15,103
2004	2,944,228	2,824,574	4,229	-115,425
Total	23,740,121	22,115,904	86,149	-438,075

PORT HARCOURT AREA BALANCE



+ Stock Movements in PH, Aba,
Enugu, MKD, Calabar, BET tanks
of PMS, DPK, AGO and Slops

Reasons for Differences

- *Vandalisation*
- *Line ruptures*
- *Illegal bunkering*

PORT HARCOURT AREA WHITE PRODUCTS

Total of 2,525 cases of
vandalisation in addition to
several fires betwn 1999-2004

TOTAL WHITE PRODUCT PH AREA DEPOTS DIFFERENCE				
Year	Total in	Total out	Stock mov't	Difference
1999	4,786,080	4,492,516	104,872	-188,692
2000	3,822,519	3,844,860	-66,488	-44,177
2001	6,118,549	6,191,926	91,931	187,103
2002	5,232,044	4,972,386	-82,723	-312,520
2003	4,600,599	4,282,718	-14,119	-327,576
2004	3,828,260	3,797,638	-2,849	-33,471
Total	28,388,051	27,582,044	30,624	-719,333

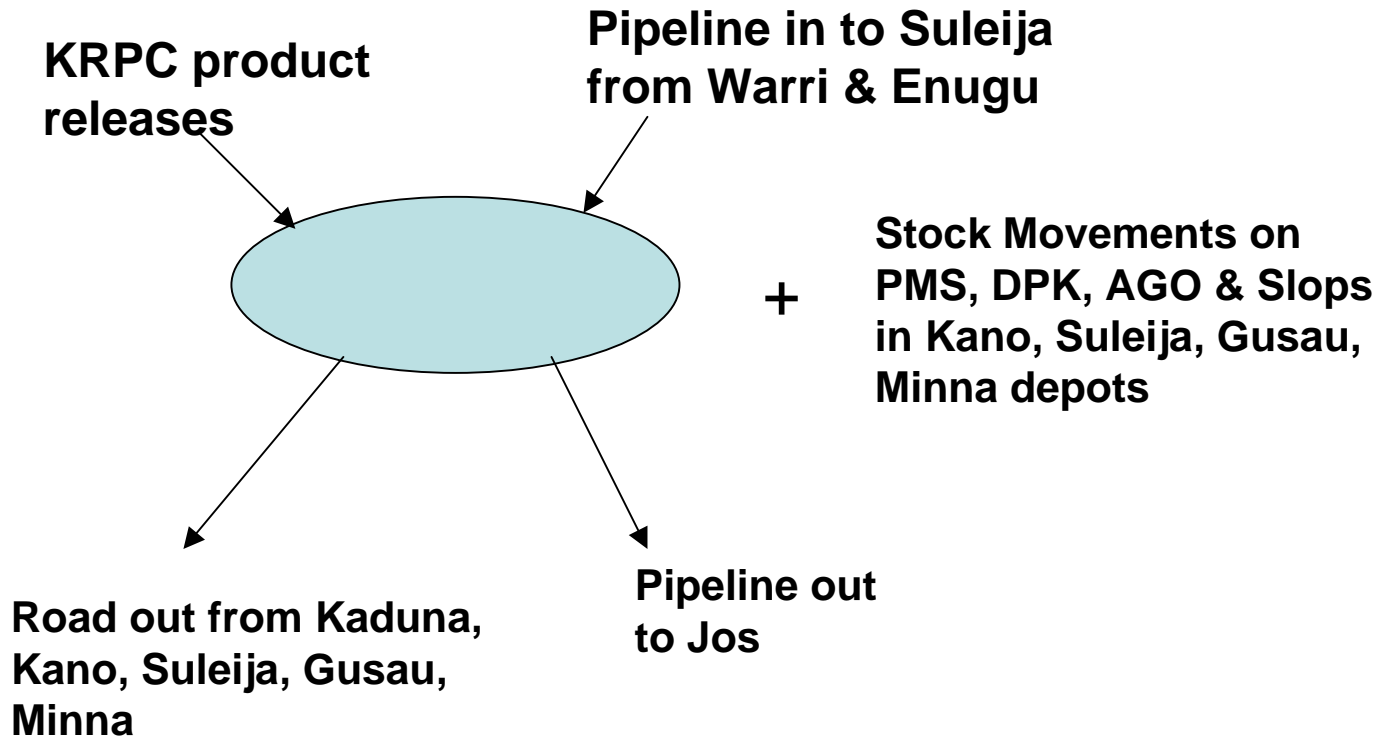
Total Pipeline differences				
Year	Total in	Total out	Stock	Difference
1999	2,857,879	2,793,448	0	-64,432
2000	2,500,908	2,221,267	0	-281,492
2001	3,428,621	3,245,544	0	-184,371
2002	2,348,410	2,314,200	0	-36,104
2003	2,644,184	2,560,966	0	-83,218
2004	2,966,941	2,943,040	0	-14,203
Total	16,746,942	16,078,465	0	-663,820

TOTAL PORT AREA DIFFERENCES = -1,383,153 MT

SUMMARY OF PORT HACOURT MASS BALANCE

PIPELINE SUMMARY					DEPOT SUMMARY				
Pipeline out of Port Harcourt Area (PMS)					LPG depot summary				
Year	Total in	Total out	Stock mov'	Difference	Year	Total in	Total out	Stock mov'	Difference
1999	50,297	43,526	0	-6,771	1999	28,279	15,747	0	-12,532
2000	9,922	11,773	0	1,851	2000	1,607	1,637	0	30
2001	35,607	36,902	0	1,295	2001	63,284	41,489	0	-21,795
2002	31,848	33,741	0	1,893	2002	65,455	35,594	0	-29,861
2003	0	0	0	0	2003	23,017	18,593	0	-4,424
2004	22,140	12,443	0	-9,697	2004	0	0	0	0
Total	149,814	138,385	0	-11,429	Total	181,642	113,060	0	-68,582
Pipeline out of Port Harcourt Area (KERO)					PMS depot summary				
Year	Total in	Total out	Stock mov'	Difference	Year	Total in	Total out	Stock mov'	Difference
1999	47,189	45,535	0	-1,654	1999	1,293,940	1,404,473	-1,483	109,050
2000	33,723	18,956	0	-14,767	2000	1,332,574	1,262,492	12,867	-57,215
2001	70,092	61,135	0	-8,957	2001	1,896,552	1,810,390	50,245	-35,917
2002	22,203	28,038	0	5,835	2002	1,867,322	1,788,158	-49,601	-128,765
2003	8,273	7,982	0	-291	2003	1,551,877	1,501,880	-6,815	-56,812
2004	3,013	2,700	0	-313	2004	1,445,887	1,379,781	17,629	-48,477
Total	184,493	164,346	0	-20,147	Total	9,388,152	9,147,174	22,842	-218,136
Pipeline out of Port Harcourt Area (AGO)					DPK depot summary				
Year	Total in	Total out	Stock mov'	Difference	Year	Total in	Total out	Stock mov'	Difference
1999	66,272	38,252	0	-28,020	1999	677,380	625,665	25,402	-26,313
2000	61,660	28,667	0	-32,993	2000	591,586	493,497	-21,392	-119,481
2001	56,192	61,786	0	5,594	2001	975,110	857,379	28,996	-88,735
2002	65,153	51,968	0	-13,185	2002	802,993	758,043	-20,218	-65,168
2003	30,565	29,504	0	-1,061	2003	643,839	581,003	-28,297	-91,133
2004	19,222	27,762	0	8,540	2004	433,486	388,654	12,417	-32,415
Total	299,064	237,939	0	-61,125	Total	4,124,394	3,704,241	-3,092	-423,245
Okrika jetty & Calabar product imports					AGO depot summary				
Year	Total in	Total out	Stock mov'	Difference	Year	Total in	Total out	Stock mov'	Difference
1999	297,248	290,836	0	-6,412	1999	1,084,444	930,341	82,013	-72,090
2000	834,105	811,801	0	-22,304	2000	815,509	785,315	-58,249	-88,443
2001	403,325	386,926	0	-16,399	2001	1,554,108	1,612,139	12,874	70,905
2002	375,719	370,524	0	-5,195	2002	1,337,330	1,229,754	-11,638	-119,214
2003	942,068	915,188	0	-26,881	2003	1,092,218	899,920	19,027	-173,271
2004	1,186,601	1,159,356	0	-27,246	2004	733,119	733,042	-31,671	-31,748
Total	4,039,067	3,934,629	0	-104,437	Total	6,616,728	6,190,511	12,356	-413,861
Okrika jetty product exports					Fuel Oil depot summary				
Year	Total in	Total out	Stock mov'	Difference	Year	Total in	Total out	Stock mov'	Difference
1999	2,396,874	2,375,299	0	-21,574	1999	1,702,037	1,516,290	-1,060	-186,807
2000	1,561,498	1,350,070	0	-211,427	2000	1,081,243	1,301,919	286	220,962
2001	2,863,405	2,698,796	0	-164,609	2001	1,629,495	1,870,529	-184	240,850
2002	1,853,487	1,829,929	0	-23,558	2002	1,158,944	1,160,837	-1,266	627
2003	1,663,277	1,608,292	0	-54,985	2003	1,289,648	1,281,322	1,966	-6,360
2004	1,735,964	1,740,779	0	4,815	2004	1,215,768	1,296,161	-1,224	79,169
Total	12,074,505	11,603,165	0	-471,339	Total	8,077,135	8,427,058	-1,482	348,441
Total Pipeline differences					TOTAL WHITE PRODUCT PH AREA DEPOTS DIFFERENC				
Year	Total in	Total out	Stock mov'	Difference	Year	Total in	Total out	Stock mov'	Difference
1999	2,857,879	2,793,448	0	-64,432	1999	4,786,080	4,492,516	104,872	-188,692
2000	2,500,908	2,221,267	0	-281,492	2000	3,822,519	3,844,860	-66,488	-44,177
2001	3,428,621	3,245,544	0	-184,371	2001	6,118,549	6,191,926	91,931	187,103
2002	2,348,410	2,314,200	0	-36,104	2002	5,232,044	4,972,386	-82,723	-312,520
2003	2,644,184	2,560,966	0	-83,218	2003	4,600,599	4,282,718	-14,119	-327,576
2004	2,966,941	2,943,040	0	-14,203	2004	3,828,260	3,797,638	-2,849	-33,471
Total	16,746,942	16,078,465	0	-663,820	Total	28,388,051	27,582,044	30,624	-719,333
					Port Hacour tArea Differences =				
					-1,383,152				

KADUNA AREA BALANCE



KADUNA AREA

YEAR	Total in	Total out	stock mov't	difference
1999	1,284,254	1,306,340	113,944	136,030
2000	1,161,682	1,170,206	-64,389	-55,865
2001	2,057,971	2,120,293	-8,879	53,443
2002	2,101,692	2,186,497	2,387	87,192
2003	1,024,048	1,177,153	-4,975	148,130
2004	1,312,020	1,359,420	12,993	60,393
TOTAL	8,941,668	9,319,909	51,081	429,322

High level of slop re-injection responsible for gain

PMS DEPOTS SUMMARY

YEAR	Total in	Total out	stock mov't	difference
1999	362,458	358,533	11,622	7,697
2000	281,332	327,099	-2,073	43,694
2001	447,689	512,364	9,535	74,210
2002	598,017	595,195	1,232	-1,590
2003	439,865	453,695	-17,034	-3,204
2004	340,155	315,155	17,579	-7,421
TOTAL	2,469,516	2,562,041	20,861	113,386

DPK DEPOTS SUMMARY

YEAR	Total in	Total out	stock mov't	difference
1999	320,019	293,335	-126	-26,810
2000	179,296	224,226	8,337	53,267
2001	312,552	339,064	-6,801	19,711
2002	342,252	318,958	1,025	-22,269
2003	169,008	136,556	23,866	-8,586
2004	150,483	153,981	-5,081	-1,583
TOTAL	1,473,611	1,466,120	21,220	13,729

AGO DEPOTS SUMMARY

YEAR	Total in	Total out	stock mov't	difference
1999	218,868	252,305	16,107	49,544
2000	210,353	279,913	5,654	75,214
2001	494,893	599,194	-7,531	96,770
2002	491,211	597,160	-3,049	102,900
2003	219,245	223,900	-5,919	-1,264
2004	323,461	385,434	1,146	63,119
TOTAL	1,958,031	2,337,906	6,408	386,283

FUEL OIL DEPOTS SUMMARY

YEAR	Total in	Total out	stock mov't	difference
1999	283,861	301,113	86,341	103,593
2000	402,895	252,390	-76,307	-226,812
2001	656,792	523,402	-4,082	-137,472
2002	533,797	539,765	3,179	9,147
2003	165,339	332,766	-5,888	161,539
2004	475,148	477,305	-651	1,506
TOTAL	2,517,832	2,426,741	2,592	-88,499

TOTAL SUMMARY OF WHITE PRODUCT KADUNA AREA

YEAR	Total in	Total out	stock mov't	difference
1999	1,185,206	1,205,286	113,944	134,024
2000	1,073,876	1,083,628	-64,389	-54,637
2001	1,911,926	1,974,024	-8,879	53,219
2002	1,965,277	2,051,078	2,387	88,188
2003	993,457	1,146,917	-4,975	148,485
2004	1,289,247	1,331,875	12,993	55,621
TOTAL	8,418,990	8,792,808	51,081	424,899

PMS PIPELINE DIFFERENCE

YEAR	Total in	Total out	stock mov't	difference
1999	14,898	13,996	0	-902
2000	10,071	9,355	0	-716
2001	9,440	9,249	0	-191
2002	19,974	19,514	0	-460
2003	3,054	2,908	0	-146
2004	0	2,354	0	2,354
TOTAL	57,437	57,376	0	-61

DPK PIPELINE DIFFERENCE

YEAR	Total in	Total out	stock mov't	difference
1999	45,617	51,778	0	6,161
2000	42,926	41,236	0	-1,690
2001	55,637	54,020	0	-1,617
2002	45,076	45,295	0	219
2003	13,324	11,946	0	-1,378
2004	8,871	8,849	0	-22
TOTAL	211,451	213,124	0	1,673

AGO PIPELINE DIFFERENCE

YEAR	Total in	Total out	stock mov't	difference
1999	38,533	35,280	0	-3,253
2000	34,809	35,987	0	1,178
2001	80,968	83,000	0	2,032
2002	71,365	70,610	0	-755
2003	14,213	15,382	0	1,169
2004	13,902	16,342	0	2,440
TOTAL	253,790	256,601	0	2,811

TOTAL PIPELINE DIFFERENCE KADUNA AREA

YEAR	Total in	Total out	stock mov't	difference
1999	99,048	101,054	0	2,006
2000	87,806	86,578	0	-1,228
2001	146,045	146,269	0	224
2002	136,415	135,419	0	-996
2003	30,591	30,236	0	-355
2004	22,773	27,545	0	4,772
TOTAL	522,678	527,101	0	4,423

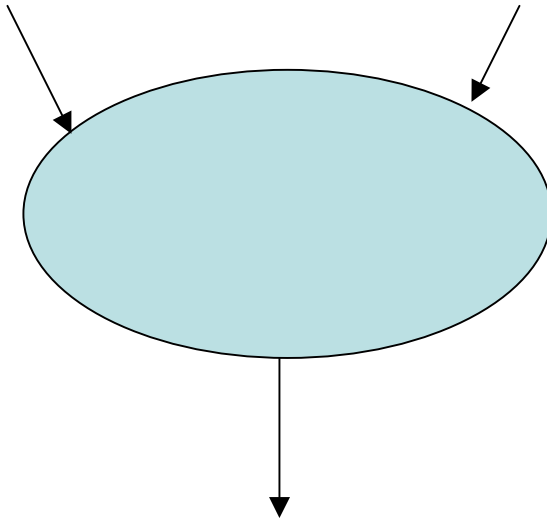
TOTAL SUMMARY KADUNA AREA

YEAR	Total in	Total out	stock mov't	difference
1999	1,284,254	1,306,340	113,944	136,030
2000	1,161,682	1,170,206	-64,389	-55,865
2001	2,057,971	2,120,293	-8,879	53,443
2002	2,101,692	2,186,497	2,387	87,192
2003	1,024,048	1,177,153	-4,975	148,130
2004	1,312,020	1,359,420	12,993	60,393
TOTAL	8,941,668	9,319,909	51,081	429,322

GOMBE AREA BALANCE

**Pipeline into Jos
from Kaduna**

**Pipeline into
Yola from MKD**



+

**Stock Movements on
PMS, DPK, AGO,
Slops**

**Roads from Jos, Yola,
Gombe, Maiduguri**

GOMBE AREA WHITE PRODUCTS

YEAR	Total in	Total out	stock mov't	Difference
1999	240,286	209,380	16,786	-14,120
2000	162,569	134,179	9,952	-18,438
2001	345,851	288,823	16,695	-40,333
2002	282,468	266,051	-20,803	-37,220
2003	75,729	78,128	-10,471	-8,072
2004	85,518	71,554	8,494	-5,470
TOTAL	1,192,421	1,048,115	20,653	-123,653

Had least cases of vandalism (13) betwn 1999-2004, least efficient in terms of slop re-injection as turnover is low

GOMBE AREA DIFFERENCES

PMS DEPOTS SUMMARY

YEAR	Total in	Total out	stock mov't	Difference
1999	61,260	55,253	5,476	-531
2000	21,405	19,641	686	-1,078
2001	46,342	27,984	17,844	-514
2002	53,742	62,105	-8,862	-499
2003	2,908	14,668	-12,188	-428
2004	14,846	272	14,551	-23
TOTAL	200,503	179,923	17,507	-3,073

DPK DEPOTS SUMMARY

YEAR	Total in	Total out	stock mov't	Difference
1999	97,313	89,516	8,997	1,200
2000	60,192	55,997	-916	-5,111
2001	115,155	116,167	1,435	2,447
2002	73,333	80,870	-7,150	387
2003	19,928	21,610	-3,423	-1,741
2004	11,549	19,363	490	8,304
TOTAL	377,470	383,523	-567	5,486

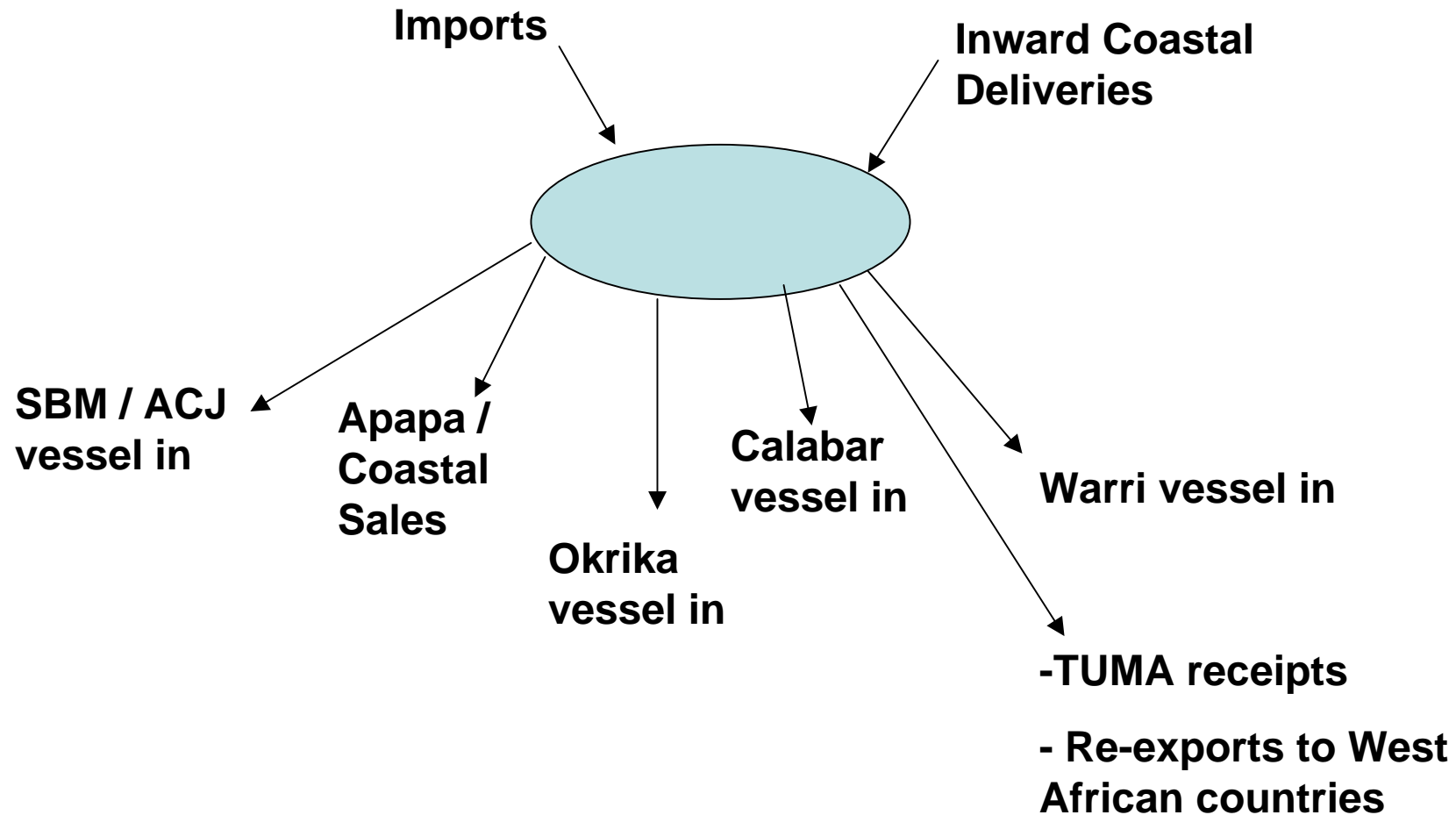
AGO DEPOTS SUMMARY

YEAR	Total in	Total out	stock mov't	Difference
1999	81,713	64,611	1,645	-15,457
2000	80,972	58,541	10,561	-11,870
2001	184,354	144,672	-2,588	-42,270
2002	155,393	123,076	-5,202	-37,519
2003	52,893	41,850	5,168	-5,875
2004	59,123	51,919	-6,353	-13,557
TOTAL	614,448	484,669	3,231	-126,548

TOTAL WHITE PRODUCT GOMBE AREA

YEAR	Total in	Total out	stock mov't	Difference
1999	240,286	209,380	16,118	-14,788
2000	162,569	134,179	10,331	-18,059
2001	345,851	288,823	16,691	-40,337
2002	282,468	266,051	-21,214	-37,631
2003	75,729	78,128	-10,443	-8,044
2004	85,518	71,554	8,688	-5,276
TOTAL	1,192,421	1,048,115	20,171	-124,135

Inward Jetty deliveries



REFINERY & DEPOT BALANCES

- Refinery balances are already well established showing losses, provision for refinery fuel, stock movements on Products and releases to PPMC.
- Depot balances are also well established on daily and qtrly basis
- Pipeline product balances between interlinking depots has been done
- Crude pipeline from terminals to PHRC and WRPC tanks is currently done on system basis but require rigorous data collection between the depots.