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APPENDIX 1

PRODUCTS PHYSICAL CHARACTERISTICS

YEAR 2012-2013

This appendix describes the inventory constraints and the injection/withdrawal capacities' constraints to be applied each Day to Inventory and Daily Injection and Withdrawal Capacities booked by the Client on each Product.

Between two dates, a linear interpolation has to be done between two Minimum (respectively Maximum) Inventory level values.

A linear interpolation has to be done between two couples of Reduction Factors values.

If case the client subscribes several products from the same storage group, then, the physical characteristics of the products will be combined using a prorata of the capacities subscribed.

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1 Serene Nord Product, attached to Serene Nord Storage Group

1.1 Maximum and Minimum Inventory Levels

Date	Minimum Storage Level	Maximum Storage Level
01/04/2012	0,0%	40,0%
01/05/2012	5,0%	50,0%
01/07/2012	27,0%	75,0%
01/08/2012	45,0%	87,0%
01/10/2012	80,0%	100,0%
01/11/2012	90,0%	100,0%
01/01/2013	40,0%	92,0%
01/03/2013	0,0%	60,0%
01/04/2013	0,0%	40,0%

1.2 Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	45,0%	100,0%	100,0%
60,0%	92,5%	70,0%	100,0%
0,0%	100,0%	40,0%	75,0%
		0,0%	30,0%

1.3 Conditional Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	50,0%	100,0%	100,0%
60,0%	100,0%	60,0%	100,0%
0,0%	100,0%	0,0%	50,0%

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2 Serene Sud Product, attached to Serene Sud Storage Group

2.1 Maximum and Minimum Inventory Levels

Date	Minimum Storage Level	Maximum Storage Level
01/04/2012	0,0%	40,0%
01/06/2012	30,0%	65,0%
01/08/2012	58,0%	90,0%
01/10/2012	84,0%	100,0%
01/11/2012	90,0%	100,0%
01/01/2013	40,0%	92,0%
01/03/2013	0,0%	60,0%
01/04/2013	0,0%	40,0%

2.2 Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	65,1%	100,0%	100,0%
80,0%	65,1%	45,0%	100,0%
40,0%	70,9%	40,0%	100,0%
20,0%	100,0%	20,0%	74,5%
0,0%	100,0%	0,0%	17,9%

2.3 Conditional Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	84,1%	100,0%	100,0%
80,0%	100,0%	45,0%	100,0%
40,0%	100,0%	40,0%	84,8%
20,0%	100,0%	20,0%	37,2%
0,0%	100,0%	0,0%	13,9%

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3 Serene Littoral Product, attached to Sediane Littoral Storage Group

3.1 Maximum and Minimum Inventory Levels

Date	Minimum Storage Level	Maximum Storage Level
01/04/2012	0,0%	40,0%
01/06/2012	30,0%	65,0%
01/08/2012	58,0%	90,0%
01/10/2012	84,0%	100,0%
01/11/2012	90,0%	100,0%
01/01/2013	40,0%	92,0%
01/03/2013	0,0%	60,0%
01/04/2013	0,0%	40,0%

3.2 Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	65,1%	100,0%	100,0%
80,0%	65,1%	45,0%	100,0%
40,0%	70,9%	40,0%	100,0%
20,0%	100,0%	20,0%	74,5%
0,0%	100,0%	0,0%	17,9%

3.3 Conditional Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	84,1%	100,0%	100,0%
80,0%	100,0%	45,0%	100,0%
40,0%	100,0%	40,0%	84,8%
20,0%	100,0%	20,0%	37,2%
0,0%	100,0%	0,0%	13,9%

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4 4 Sediane Nord product attached to Sediane Nord Storage Group

4.1 Maximum and Minimum Inventory Levels

Date	Minimum Storage Level	Maximum Storage Level
01/04/2012	0,0%	40,0%
01/06/2012	20,0%	65,0%
15/07/2012	40,0%	85,0%
01/10/2012	80,0%	100,0%
01/11/2012	85,0%	100,0%
01/01/2013	25,0%	100,0%
01/02/2013	0,0%	80,0%
01/04/2013	0,0%	40,0%

4.2 Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	20,0%	100,0%	100,0%
95,0%	35,0%	50,0%	100,0%
75,0%	65,0%	22,5%	85,0%
65,0%	65,0%	7,5%	32,5%
45,0%	100,0%	0,0%	32,5%
0,0%	100,0%		

4.3 Conditional Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	10,0%	100,0%	30,0%
95,0%	33,0%	50,0%	30,0%
75,0%	65,0%	22,5%	35,0%
65,0%	100,0%	7,5%	100,0%
45,0%	33,0%	0,0%	65,0%
0,0%	33,0%		

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5 Sediane Littoral product attached to Sediane Littoral Storage Group

5.1 Maximum and Minimum Inventory Levels

Date	Minimum Storage Level	Maximum Storage Level
01/04/2012	0,0%	40,0%
01/06/2012	30,0%	65,0%
01/08/2012	58,0%	90,0%
01/10/2012	84,0%	100,0%
01/11/2012	90,0%	100,0%
01/01/2013	40,0%	92,0%
01/03/2013	0,0%	60,0%
01/04/2013	0,0%	40,0%

5.2 Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	68,6%	100,0%	100,0%
80,0%	68,6%	45,0%	100,0%
40,0%	73,8%	40,0%	100,0%
20,0%	100,0%	20,0%	79,7%
0,0%	100,0%	0,0%	34,5%

5.3 Conditional Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	85,7%	100,0%	100,0%
80,0%	100,0%	45,0%	100,0%
40,0%	100,0%	40,0%	85,2%
20,0%	100,0%	20,0%	43,2%
0,0%	100,0%	0,0%	16,0%

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6 Sediane B product attached to Sediane B Storage Group

6.1 Maximum and Minimum Inventory Levels

Date	Minimum Storage Level	Maximum Storage Level
01/04/2012	0,0%	25,0%
15/05/2012	0,0%	44,8%
01/08/2012	45,0%	80,0%
01/09/2012	62,8%	80,0%
01/10/2012	80,0%	93,6%
15/10/2012	86,9%	100,0%
01/11/2012	95,0%	100,0%
15/11/2012	82,4%	100,0%
01/01/2013	40,0%	90,0%
01/03/2013	0,0%	47,1%
01/04/2013	0,0%	25,0%

6.2 Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	65,0%	100,0%	100,0%
80,0%	65,0%	45,0%	100,0%
70,0%	100,0%	30,0%	85,0%
55,0%	100,0%	10,0%	52,0%
45,0%	100,0%	0,0%	38,0%
0,0%	100,0%		

6.3 Conditional Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	0,0%	100,0%	100,0%
80,0%	55,6%	50,0%	100,0%
70,0%	0,0%	45,0%	90,0%
55,0%	53,3%	30,0%	50,0%
45,0%	100,0%	0,0%	25,0%
0,0%	100,0%		

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7 Sediane Sud product, attached to Serene Sud Storage Group

7.1 Maximum and Minimum Inventory Levels

Date	Minimum Storage Level	Maximum Storage Level
01/04/2012	0,0%	40,0%
01/06/2012	30,0%	65,0%
01/08/2012	58,0%	90,0%
01/10/2012	84,0%	100,0%
01/11/2012	90,0%	100,0%
01/01/2013	40,0%	92,0%
01/03/2013	0,0%	60,0%
01/04/2013	0,0%	40,0%

7.2 Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	68,6%	100,0%	100,0%
80,0%	68,6%	45,0%	100,0%
40,0%	73,8%	40,0%	100,0%
20,0%	100,0%	20,0%	79,7%
0,0%	100,0%	0,0%	34,5%

7.3 Conditional Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	85,7%	100,0%	100,0%
80,0%	100,0%	45,0%	100,0%
40,0%	100,0%	40,0%	85,2%
20,0%	100,0%	20,0%	43,2%
0,0%	100,0%	0,0%	16,0%

8 Saline product attached to Saline Storage Group

8.1 Maximum and Minimum Inventory Levels

Date	Minimum Storage Level	Maximum Storage Level
01/04/2012	0,0%	100,0%
01/08/2012	65,0%	100,0%
01/11/2012	85,0%	100,0%
01/01/2013	50,0%	100,0%
01/03/2013	10,0%	100,0%
01/04/2013	0,0%	100,0%

8.2 Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	20,0%	100,0%	100,0%
95,0%	35,0%	55,0%	100,0%
0,0%	100,0%	20,0%	70,0%
		0,0%	25,0%

8.3 Conditional Injection and withdrawal Capacity Reduction Factors

Injection		Withdrawal	
Storage level %	Reduction factor in %	Storage level %	Reduction factor in %
100,0%	0,0%	100,0%	100,0%
95,0%	83,3%	45,0%	100,0%
0,0%	100,0%	20,0%	90,0%
		10,0%	100,0%
		0,0%	35,0%