



TOTAL

Capacity Allocation Mechanism

October 2011

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1. Preamble

Total South Africa (Pty) Ltd (Registration Number 1954/003325/07, herein referred to as TOTAL) were granted operating licenses by NERSA for the following sites:

- a) Alrode (*PPL.sf.F3/11/3/2006*)
- b) Bethlehem (*PPL.sf.F3/11/7/2006*)
- c) East London (*PPL.sf.F3/11/11/2006*)
- d) Island View Terminal (*PPL.sf.F3/11/1/2006*)
- e) Ladysmith (*PPL.sf.F3/11/6/2006*)
- f) Nelspruit (*PPL.sf.F3/11/5/2006*)
- g) Ohrigstad (*PPL.sf.F3/11/10/2006*)
- h) Polokwane (*PPL.sf.F3/11/8/2006*)
- i) Waltloo (*PPL.sf.F3/11/2/2006*)

As part of the condition for the operating of these sites it is a requirement by TOTAL to submit its capacity allocation mechanism. TOTAL applied the same principles as per the discussion paper on third party access to storage facilities and uncommitted capacity (2 June 2009, refer to the diagram of tank measuring capacity).

2. Definitions

1) Dead Stock

The stock that cannot be extracted from the tank (normally below the discharge point of a tank)

2) GASOIL

All diesel products

3) KERO

All illuminating products

4) MOGAS

All petrol products

5) Operating Capacity

The stock capacity available for operation and exclude any dead/unpumpable stock in the tank

6) Operating Stock

This is the stock required to operate on a day to day basis based on the replenishment cycle to the depot

7) Safety Stock

This is a level determined to ensure continuous supply of stock to TOTAL customers in the event of a delay in the replenishment plan of stock to the depot

8) Surplus/Short Capacity

The is the capacity that is available for allocation, or is currently allocated to 3rd parties at the depots

9) Un pump able Stock

The stock that cannot be pumped from the tank (normally below the discharge point of a tank)

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3. Policy

- Applicant must prove the capacity to procure, handle and distribute petroleum products for own direct benefit, and must comply with, but not limited to, the following criteria:
 - Applicant must be registered as a Wholesaler of Petroleum Product as set out in the Petroleum Products Act 120 of 1977 (as amended).
 - Applicant must be willing and able to submit the information to Total South Africa (PTY) Ltd as stipulated under the Licence Conditions as imposed by NERSA on Total South Africa (PTY) Ltd.
- Preference will be given to historically disadvantaged South Africans, who meet the criteria.
- Applicant must be in a position to prove financial stability and **Total South Africa (PTY) Ltd reserve the right to verify the details provided.**
- Applicant must provide petroleum product that complies with the OIPES quality standard, submit full documentation from the source of supply in reference to the quality of product, willing to provide samples for TOTAL for internal testing before pumping to the storage tanks and provided product must be fungible with the product currently being stored and handled in the facility's being applied for.
- Applicant must prove the reliability of supply of petroleum products from the source.
- Applicant must prove the capacity, as well as the contractual capacity, to remove the petroleum products being stored, to ensure stock rotation.
- Applicant must prove his BEE status as per the Liquid Fuels Charter and or BBBEE Codes of Good Practice.
- Liability and cost tariffs will be included in the agreement.
- Insurance cover is in place provided that the relevant legislative and policy requirements have been met. Terms will be specified in the agreement.

Provide the following information in the application:

- Full name, registration number and contact details of the company.
- Documentary evidence for compliance to the above criteria.
- Depot/s and capacity per product required.

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4. Tariff for 2011

The (unapproved) average tariff for storage white product tanks at Total depot for 2011 was calculated as: 6.3 c/l (cents per litre) and not based on regulator methodology. Future calculations may be based on NERSA recommended methodology.

All tariffs are EXCLUSIVE of VAT.

Liability and cost tariffs will be included on a case by case basis.

Insurance cover is in place provided that the relevant legislative and policy requirements have been met. Terms will be specified on a case by case basis.

5. Allocation of uncommitted capacity

The available ullage will be determined by both the volume ullage available and the period for which the ullage will be available. The period (in days) and the typical volume available for that period (on average) can be calculated by doing a histogram for the period under review.

The period for which the ullage will be available is important as the licensees continuously fills up their available ullage and then transfers it out of the depot. The specific volume and time required by third parties will be negotiated on a case by case basis.

The product will only be accepted if there is available ullage. The availability of ullage is determined during the planning process. TSA will ensure that the available ullage is coordinated over a six month rolling plan to ensure that the total available ullage is never exceeded. In addition, maintenance at the depot will impact the availability of ullage and as such is built into the six month plan.

6. Timelines for Application

Any third party will need to form part of this six month rolling plan and therefore will need to present its requirements well in advance. The notice period should at least be four months, but preferably six months. The following planning process will be required:

M+6¹: Indication of ullage requirements.

M+3: Indicative receipt and dispatch plans

M+1: Firm receipt and dispatch plans.

If the third party does not meet the planning requirements (e.g. due to unplanned transfers, etc.), the Operations Management is not obliged to accept such Product.

7. "Use it or lose it" principle

Due to the nature of the operation of storage, ullage is not a constant and may or may not be available at any one time. It is therefore important to note that if a third party request ullage and it is available, then this ullage will only be available for the volume and period as planned for. If the third party cannot utilise the ullage as and when agreed, this opportunity will lapse and the third party will need to go through the whole process again (use it or lose it principle).

¹ M + n indicates the number of months in advance that specific information is required, e.g. M + 6 (n=6) will mean six months in advance, and M + 1 will be next month.

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8. Process for Application to utilise uncommitted capacity

❖ Contact details

Applicant to apply for access in writing to:

"Business Support Manager Logistics"

Total South Africa (PTY) Ltd

P.O. Box 579

Saxonwold

2132

It is important that the applicant provide the following information with the application:

Full name, registration number and contact details of the company.

Depot(s) and capacity per product required.

Documentary evidence as required in §9 (Vetting of Applicants).

9. Vetting of Applicants

❖ Requirements for Applications

Applicant must prove the capacity to procure, handle and distribute petroleum products for own direct benefit, and must comply with, but not limited to, the following criteria:

- Applicant must be registered as a Wholesaler of Petroleum Product as set out in the Petroleum Products Act 120 of 1977 (as amended).
- Applicant must be in a position to prove financial stability and the licensee's reserves the right to verify the details provided.
- Applicants must prove their BEE status as per the Liquid fuels charter.
- Applicant must be willing and able to submit the information to the licensees as stipulated under the Licence Conditions as imposed by NERSA.

Preference will be given to historically disadvantaged South Africans, who meet the criteria.

❖ *Pre conditions required*

- The third party should have the necessary licenses, permits, etc. required to import the product (i.e. meet all regulatory requirements).

Third party access will only be allowed if the third party has all the contracts in place for the import and transfer of the product to a different facility within the available ullage window. Applicant must prove the capacity, as well as the contractual capacity, to remove the petroleum products being stored, to ensure stock rotation.

Applicant must prove the reliability of supply of petroleum products from source.

10. Quality and technical specifications

Only petrol and diesel (herein referred to collectively or separately as Product) that meet the quality specifications as specified from time to time by the licensees for all Products will be allowed in the tanks. The initial specifications as agreed by the licensees are shown in APPENDIX

APPENDIX 1., the total olefins in the ULP must meet the following specifications:

Total C ₄ and smaller Olefin content	< 0.1 vol%
Total Olefin content in the ULP	< 18 vol%

Applicant must provide petroleum product that complies with the OIPES quality standard, submitting full documentation from the source of supply in reference to the quality of product, must be willing to provide samples for internal testing before pumping to the storage tanks and provided product must be fungible with the product currently being stored and handled in the facility's being applied for.

The Operations Management is not obliged to receive into or store in the White Product tanks any product, unless an independent quality certificate can be produced to prove that the Product meets the agreed minimum specifications.

Should any party transfer Product to the tanks, and the tanks are analysed to be off-specification subsequent to the transfer, the third party will be responsible to return the Product in the tanks to the quality it was before the transfer, either by replacing the contents, or by blending additional components that return the tank to being within specification.

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11. Accounting and reporting

In order to minimise storage costs, products of similar specification are co-mingled in the depot regardless of ownership. No applicant or license holder may claim entitlement to a dedicated tank.

Ownership of the Product shall at all times continue to vest with the physical owner of the Product and Product ownership will be determined and recorded by specification and volume; and not necessarily by reference to a storage tank.

12. Return of Product

Third parties will receive product back of a similar nature and meeting the same specifications to that transferred into the tank. However, the licensees cannot guarantee that it will be the same molecules.

The product that will be supplied back to the third party will be on a volume for volume dry basis, based on an assay.

The volume supplied back to the third party will be reconciled and any over or under supply will be billed at the applicable rate. An over or under supply situation will not be rectified by supplying or receiving additional volumes.

Product will only be returned to a third party at the respective depot, not at any other facility operated and/or owned by the licensee.

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13. Gains and Losses

During every month-end, the Operations Management will report on Product levels so that the reports indicate Product levels per storage tank. The Product levels may or may not be the same as the virtual Product recorded on the Management Information System. The variance between physical and virtual stock may result in Gains or Losses per Product.

Gains and Losses in respect of a Product pool will be apportioned between all owners on a *pro-rata* basis; and determined by each party's total usage for the relevant accounting period. The total usage per period is determined from the total volume transferred (or moved) through the storage tanks in the period.

Product ownership rights of Product that cannot be practically recovered within the facility (i.e. dead stock in tanks and Product in dedicated pipelines) will be allocated to the licensee.

Product in non-dedicated pipelines will be negotiated with third parties on a case by case basis and will depend on whether a transfer through such a pipeline is specifically for the third party or is part of "normal" operations.

14. Access to other parties

Third parties will be required to appoint independent surveyors and such appointments must be done in consultation with the Operations Management in order to ensure compliance with HESQ requirements.

The costs of all such appointments shall be for the third party.

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15. Non Adherence

Should the third party not adhere to this allocation mechanism, the following remedies will apply:

- common law remedies will apply where appropriate;
- If the third party exceeds their portion of the allocated ullage for a period exceeding that agreed, such third party must:
 - ❖ rectify the situation as soon as possible; and
 - ❖ In addition, accept accountability for all holding costs (e.g. tank rental, etc.) on a pro-rata basis, calculated based on the magnitude by which the by which the Participation Ratio has been exceeded.
 - ❖ Accept all direct costs associated with the impact on licensee ullage constraints, e.g. demurrage costs.
- Consequential losses, e.g. loss of market, etc. are excluded.

16. Confidentiality

During the planning process and operation of the facility, information will be shared that may be deemed confidential. Accordingly, no Party may disclose confidential information pertaining to another Party, without written consent of the owner of the confidential information. Confidential information shall include, but not be limited to the details of Agreements between the third party and licensees, the information handed over during the course of negotiations, as well as the details of planning volumes, operating procedures, etc.

17. Adherence to Applicable Laws and Rules

The third party warrants that it is and will always be in compliance with all laws and policies applicable to the import and distribution of petroleum products, including, but

not limited to, all South African Revenue Service (SARS), Department of Energy (DoE), Nersa (National Energy Regulator of South Africa) and Department of Trade and Industry (DTI) requirements.

In addition, the third party indemnifies and holds harmless the licensees to any claims, etc. arising out of such non-compliance.

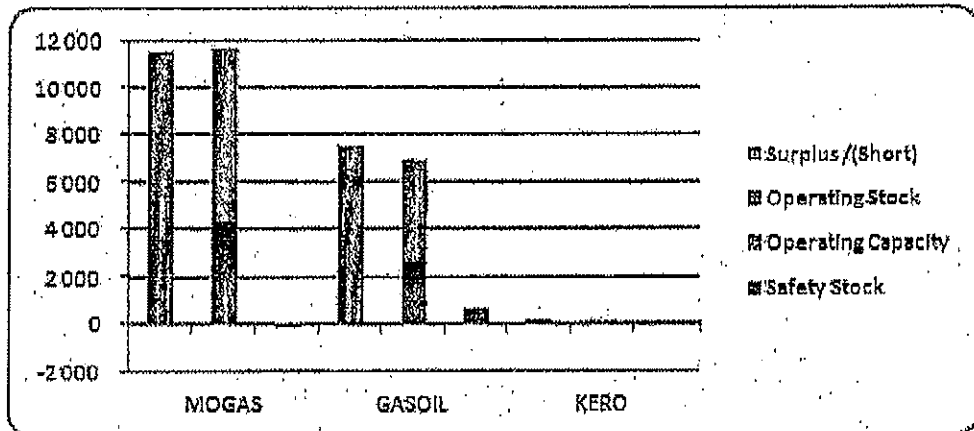
The third party must at all times adhere to HSEQ (Safety, Health, Environmental and Quality) rules.



18. Capacity Utilisation

I. Alrode

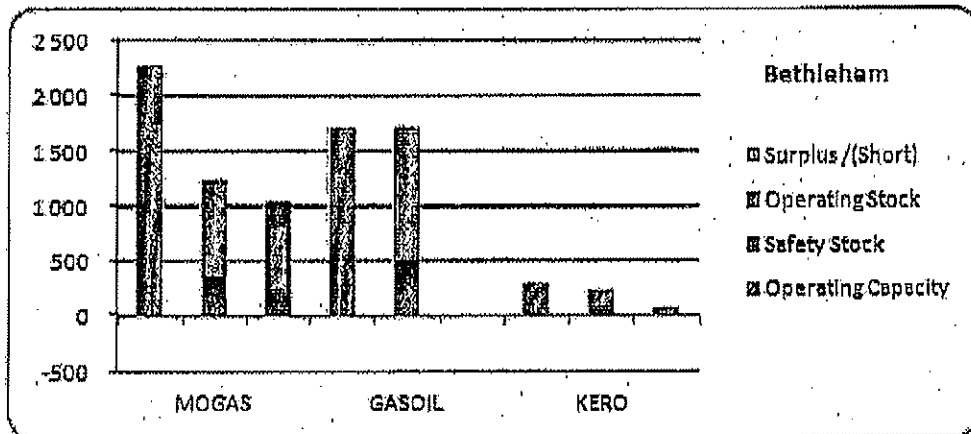
The depot currently has 21 tanks available for storage of petroleum products. TOTAL are continuously evaluating the configuration of the storage of product in this tanks, which could result in product changes to the current product tank allocation. The changes are of an operational nature due to fluctuations of customer demand as well as care and maintenance. Currently this depot store MOGAS and GASOIL products. The depot is supplied via pipe and road on an ad-hoc basis.



Alrode	MOGAS	GASOIL	KERO
Operating Capacity	11 521	7 525	138
Safety Stock	4 304	2 560	34
Operating Stock	7 375	4 332	51
Capacity Required	11 680	6 892	85
Surplus/(Short)		-159	53

II. Bethlehem

The depot currently has 9 tanks available for storage of petroleum products. TOTAL are continuously evaluating the configuration of the storage of product in this tanks, which could result in product changes to the current product tank allocation. The changes are of an operational nature due to fluctuations of customer demand as well as care and maintenance. Currently this depot store MOGAS, GASOIL and KERO products. The depot is currently supplied via pipe (until NMPP commissioning) and road/rail on an ad-hoc basis.

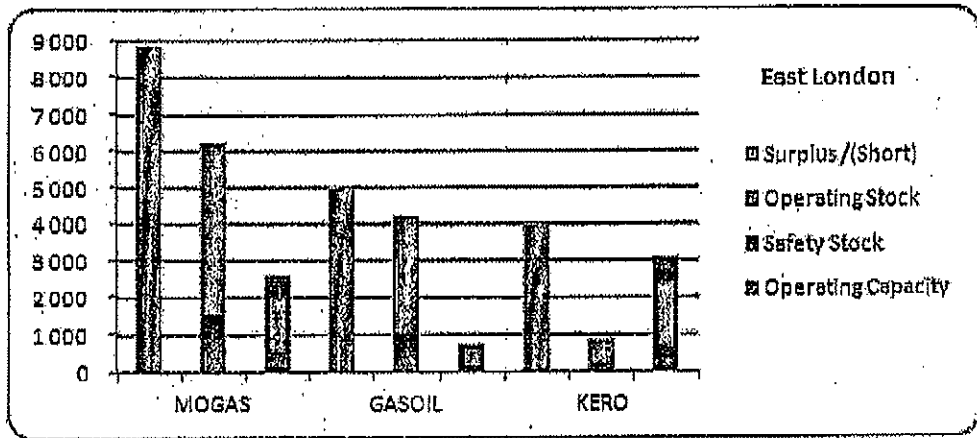


Bethlehem	MOGAS		GASOIL		KERO	
Operating Capacity	2 272		1 704		295	
Safety Stock		368		514		69
Operating Stock		858		1 199		161
Capacity Required		1 226		1 719		230
Surplus /(Short)			1 046		-9	65

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III. East London

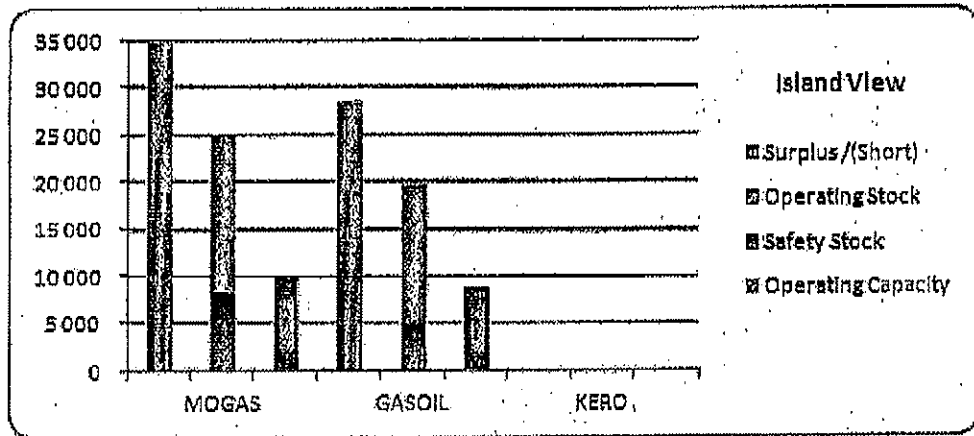
The depot currently has 12 tanks available for storage of petroleum products. TOTAL are continuously evaluating the configuration of the storage of product in this tanks, which could result in product changes to the current product tank allocation. The changes are of an operational nature due to fluctuations of customer demand as well as care and maintenance. Currently this depot store MOGAS, GASOIL, and KERO products, with the latter no longer available from September 2011. The depot receives product via ship.



East London	MOGAS		GASOIL		KERO	
Operating Capacity	8 845		4 959		3 951	
Safety Stock	1 557		1 050		212	
Operating Stock	4 671		3 151		696	
Capacity Required	5 228		4 201		848	
Surplus / (short)		2 617		752		8 103

IV. Island View

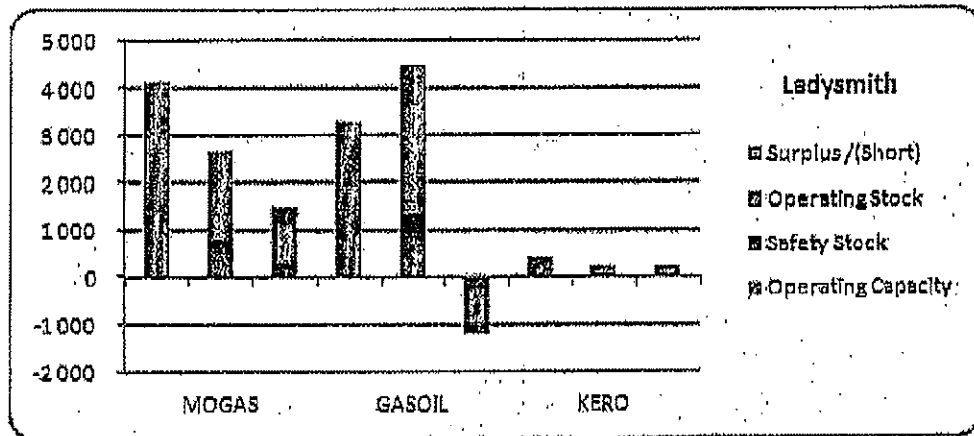
The depot currently has 14 tanks available for storage of petroleum products. TOTAL are continuously evaluating the configuration of the storage of product in this tanks, which could result in product changes to the current product tank allocation. The changes are of an operational nature due to fluctuations of customer demand as well as care and maintenance. Currently this depot store MOGAS and GASOIL products. Product is received via pipe and ship.



Island View	MOGAS		GASOIL		KERO	
Operating Capacity	34 803		28 350		0	
Safety Stock		8 256		4 906		0
Operating Stock		16 737		14 718		0
Capacity Required		25 008		19 624		0
Surplus /(Short)			9 800		8 726	0

V. Ladysmith

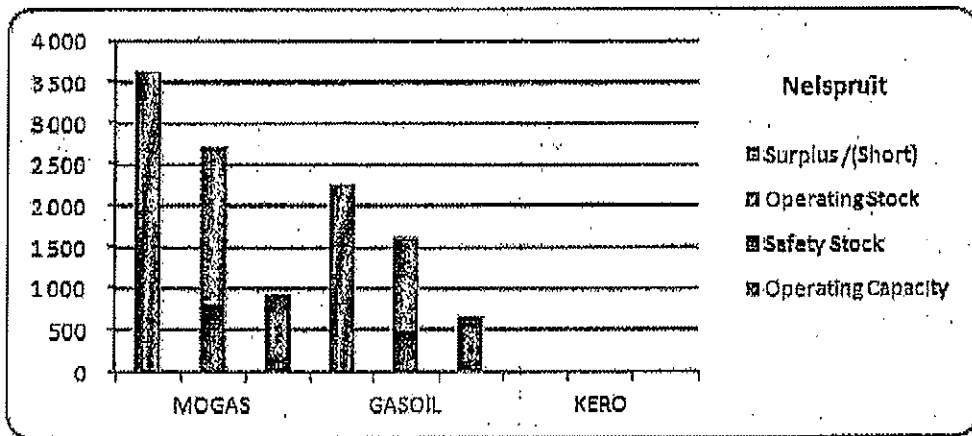
The depot currently has 10 tanks available for storage of petroleum products. TOTAL are continuously evaluating the configuration of the storage of product in this tanks, which could result in product changes to the current product tank allocation. The changes are of an operational nature due to fluctuations of customer demand as well as care and maintenance. Currently this depot store MOGAS, GASOIL and KERO products. The depot is currently supplied via pipe (until NMPP commissioning) and road/rail on an ad-hoc basis.



Ladysmith	MOGAS		GASOIL		KERO	
Operating Capacity	4 120		3 268		403	
Safety Stock		796		1 343		65
Operating Stock		1 857		3 133		130
Capacity Required		2 553		4 476		195
Surplus/(Short)		1 467		-1 208		208

VI. Nelspruit

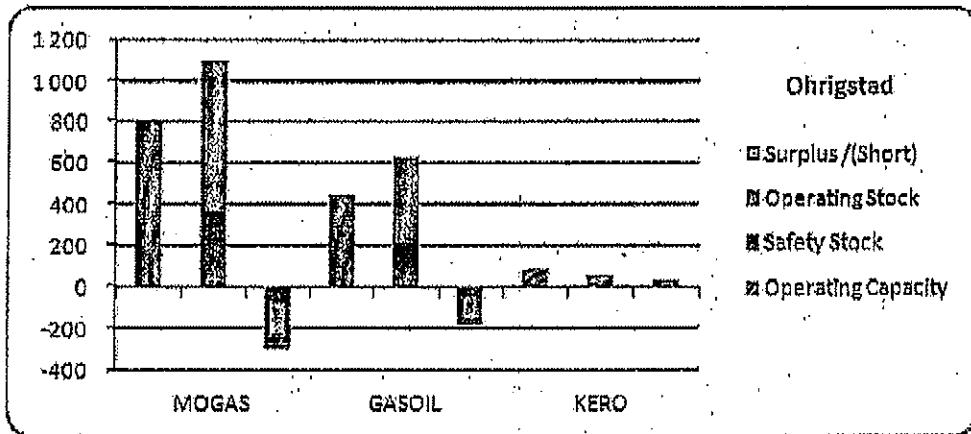
The depot currently has 15 tanks available for storage of petroleum products. TOTAL are continuously evaluating the configuration of the storage of product in this tanks, which could result in product changes to the current product tank allocation. The changes are of an operational nature due to fluctuations of customer demand as well as care and maintenance. Currently this depot store MOGAS and GASOIL products. The depot is supplied via rail and road.



Nelspruit	MOGAS		GASOIL		KERO	
Operating Capacity	3 635		2 271		0	
Safety Stock		819		489		0
Operating Stock		1 898		1 126		0
Capacity Required		2 711		1 609		0
Surplus/(Short)			924	662		0

VII. Ohrigstad

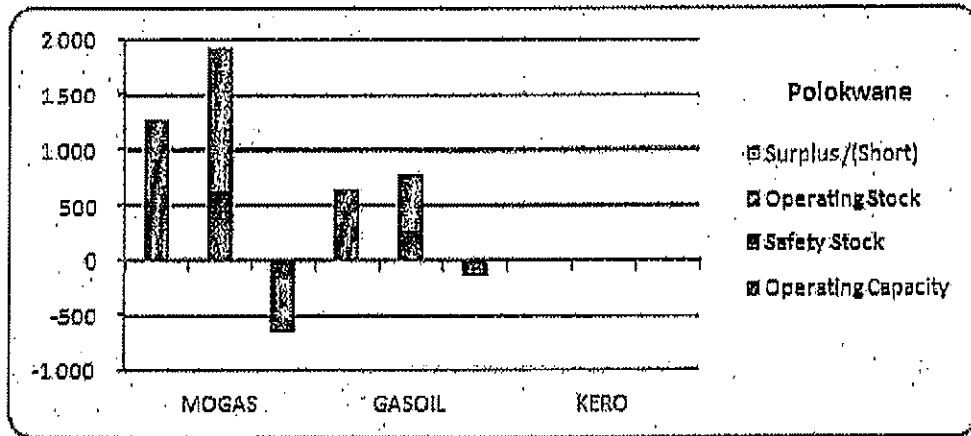
The depot currently has 12 tanks available for storage of petroleum products. TOTAL are continuously evaluating the configuration of the storage of product in this tanks, which could result in product changes to the current product tank allocation. The changes are of an operational nature due to fluctuations of customer demand as well as care and maintenance. Currently this depot store MOGAS and GASOIL products. The depot is supplied via rail and road.



Ohrigstad	MOGAS		GASOIL		KERO	
Operating Capacity	803		444		89	
Safety Stock		366		209		20
Operating Stock		732		417		39
Capacity Required		1 098		626		59
Surplus/(Short)			-295		-182	30

VIII. Polokwane

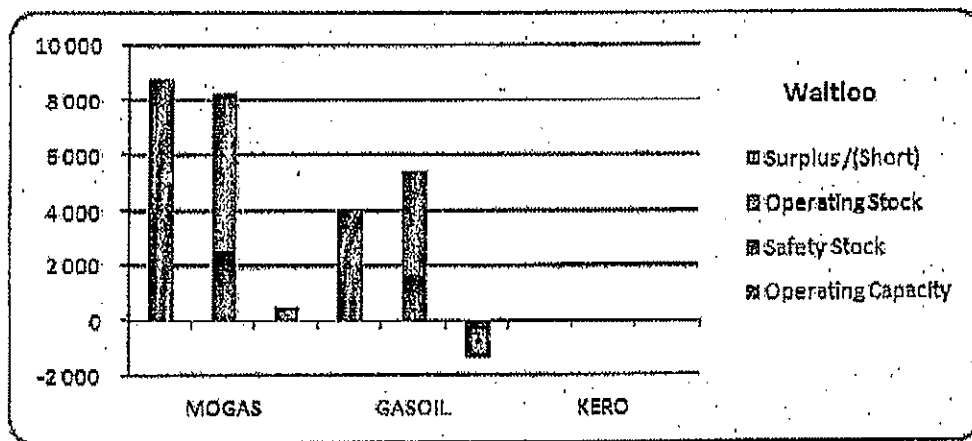
The depot currently has 9 tanks available for storage of petroleum products. TOTAL are continuously evaluating the configuration of the storage of product in this tanks, which could result in product changes to the current product tank allocation. The changes are of an operational nature due to fluctuations of customer demand as well as care and maintenance. Currently this depot store MOGAS and GASOIL products. The depot is supplied via rail and road.



Polokwane	MOGAS		GASOIL		KERO	
Operating Capacity	1 272		652		0	
Safety Stock		643		263		0
Operating Stock		1 287		525		0
Capacity Required		1 930		788		0
Surplus/(Short)			-652	-186		0

IX. Waltloo

The depot currently has 23 tanks available for storage of petroleum products. TOTAL are continuously evaluating the configuration of the storage of product in this tanks, which could result in product changes to the current product tank allocation. The changes are of an operational nature due to fluctuations of customer demand as well as care and maintenance. Currently this depot store MOGAS and GASOIL products. The depot is supplied via pipe and road on an ad-hoc basis.



Waltloo	MOGAS		GASOIL		KERO	
Operating Capacity	8 751		4 068		0	
Safety Stock		2 511		1 663		0
Operating Stock		5 743		3 757		0
Capacity Required		8 254		5 420		0
Surplus/(Short)			497	-1 352		0

19. GENERAL INFORMATION

SECTION A: PARTICULARS OF APPLICANT

1. **Total South Africa (PTY) Ltd**
2. **Physical and postal addresses of the principal place of business of the applicant;**
3. **3 Bierman Avenue, Rosebank, Johannesburg South Africa 2196.**
4. **Physical and postal address of the registered office of the applicant (if different from principal place of business); P.O. Box 579 Saxsonwold 2132**
5. **Telephone number of the applicant; +27 11 778 2000**
6. **Fax number of the applicant; +27 11 778 2001**
7. **Email address of the applicant; shaolin.pillay@total.co.za**

SOLEMN DECLARATION BY APPLICANT

I (full names) NOAILLY PIERE.....Identity
Number.....08CY40035... hereby declare that:

- (a) I am authorised by TOTAL SOUTH AFRICA (PTY) Ltd to make this declaration (attach the authorisation); and
- (b) All information provided herein is within my personal knowledge and is both true and correct.

Signed at ROSEBANK on this 4TH day of October 2011.

P. Noailly

Signature

I certify that the deponent:

- (a) has acknowledged that he knows and understands the contents of this application form and its annexures, that he has no objection to taking the prescribed oath and that he considers the oath binding on his conscience; and
- (b) has in the prescribed manner sworn that the contents of this application form and its annexure are true and signed same before me at ROSEBANK on this 4TH day of October 2011.

Crawley

Crawley
TASNEEM CRAWLEY
EX-OFFICIO COMMISSIONER OF OATHS
FOR THE GAUTENG PROVINCE
NON-PRACTISING ATTORNEY
32 LANGE AVE. NORTHCLIFF 1710

COMMISSIONER OF OATHS

Name Tasneem Crawley
Address 32 Lange Ave Northcliff
Capacity Non practising attorney

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ANNEXURE B

FORM: APPLICATION FOR A LICENCE

Applications for a licence in terms of the Petroleum Pipelines act, 2003
(Act No. 60 of 2003)

Instructions:

1. Prior to completing this form, you are advised to read the following documents:
 - (a) the Petroleum Pipelines Act, 2003 (Act No. 60 of 2003) and its regulations; and
 - (b) the Rules made in terms of the Petroleum Pipelines Act specifically rules 1 to 11.
2. Please note that this form has three chapters and that applicants must provide all information and supporting documentation required. Incomplete applications will not be accepted.
3. The completed form with supporting documentation must be delivered to the Energy Regulator:
 - by registered mail to: P O Box 40343, Arcadia, 0007;
 - OR**
 - by hand at: Kulawula House, 526 Vermeulen Street, Arcadia, Pretoria
4. An electronic version of the completed form may also be e-mailed to: pipelines@nersa.org.za.
5. If you want to request the confidential treatment of certain information in your application, you must make the request in accordance with rule 4 of the Rules made in terms of the Petroleum Pipelines Act.

ENQUIRIES:

Contact: Executive Manager: Petroleum Pipelines
Regulation

Contact no.: (012) 401 4600

Fax no.: (012) 401 4700

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SECTION B: PARTICULARS REGARDING THE TYPE OF SUBMISSION

The request for confidential treatment of information is with regards to (tick the appropriate box below):

- A licence application
- An application for an amendment of a licence
- An application for the revocation of a licence
- An objection to a licence application
- A complaint In terms of section 31 of the Act
- A tariff application
- Other (specify)
- Allocation Mechanism for uncommitted capacity

SECTION C: N/A

SECTION D: ORAL REPRESENTATIONS TO THE ENERGY REGULATOR

Indicate your wish to orally present your request to the Energy Regulator: No

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20. APPENDIX

APPENDIX 1: Common quality specification for one Diesel grade and one ULP Petrol product

Figure 1: Specification for Diesel grade product

Property	Units	Limit	Test Method	Import requirement	Notes
Appearance		max	ASTM D4176 or Gallex Haze at 16-23	2	
Colour		max	ASTM D1500	3	
Density @ 20°C	kg/l	min	D4052/D1268	0,818	
Ash Content	% m/m	max	D482	0,01	
Cetane Number		min	D613/IP41	45	
Carbon Residue, Ramsbottom (on 10% residue)	% m/m	max	D524	0,2	
GFPP - Winter, 15 Mar - 30 Sept	Deg C	max	IP308	-4	
- Summer, 1 Oct - 14 Mar	Deg C	max		3	
Cloud point- Winter, 15 Mar - 30 Sept	Deg C	max		+4	
Conductivity @ 20 Deg C	pS/m	min	D2624	100	
	pS/m	max		800	
Corrosion, Copper Strip, 3 hrs @ 100°C		max	D130	1	
Distillation			D88		
90 % vol. Recovery	Deg C	max		362	
Sulphur Content	mg/kg	max	D5453	480	
Flash point, PMCC	Deg C	min	D93	62	
Strong Acid Number	mg KOH/g	max	D974/D884	nil	
Acid Number	mg KOH/g	max	D974/D884	0,25	
Kinematic Viscosity @ 40 Deg C	cSt (3)	min	D445	2,2	
		max		5,5	
Water Content, Karl Fischer	ppm (w/w)	max	D4377/D8304	200	
			IP358		
Lubricity (HFRR) (Lubricity Improver must have latest British Standard multi product pipeline approval)	um	max	CEC F08-A-86	400	
Oxidation Stability	mg/100ml	max	D2274	2,0	
Total Contamination	mg/kg	max	IP440	12	

Figure 2: Specification for ULP 95 grade product

Property	Units	Limit	Method	Import Requirement	Note
Appearance			SABS 1598 Requirements 4.1.3	Clear and free from visible water, sediment and suspended matter	
Colour			Visual	Un-dyed	
Density @ 20°C	kg/l	min max	D4052/D1298	0,710 0,785	1
Octane Number, Research		min	D2699/IP237	95,5/93,3	
Octane Number, Motor		min	D2700/IP236	85,5/83,3	
Lead Content	g Pb/l	max	D5059/D352	0,001	2
Gum, Existent	mg/100ml	max	D381/IP131	4	
Gum, Potential (2.5 hrs @ 100 Deg C)	mg/100ml	max	IP138/D873	4	
Induction Period @ 100 Deg/C	mins	min	D525/IP40	360	
Distillation			D86/IP123		
IBP	Deg C			Report	
10 % vol	Deg C	max		65	
50% vol	Deg C	min		77	
50% vol	Deg C	max		115	
90 % vol	Deg C	max		185	
FBP	Deg C	max		210	
Residue	% v/v	max		2,0	
Evaporated to 70 Deg/C	% v/v				
Reid vapour pressure/DVPE **	kPa	min max	D323/D5191	45 75	
FVI, Spring, 1 Sept - 30 Sept		max	RVP + 0,7*E70	89	
Summer, 1 Oct to 28 Feb		max		87	
Autumn, 1 March to 31 March		max		89	
Winter, 1 April to 31 Aug		max		94	
Total Acidity	mg KOH/g	max	D3242/IP354	0,025	
Sulphur Content	% m/m	max	D4294/IP336 D5453/D3120	0,050	
Doctor test Or Mercaptans	%m/m	max max	IP30 D32270	Negative 0,0015	3
Cu Corrosion (3hr @ 50 Deg/C)	rating	max	D130/IP154	1	
Ag Corrosion (4 hr @ 50Deg/C)	rating	max	IP 227	1	
Aromatics content	% v/v		D5880/D5443 D1319	42	
Benzene content	% v/v	max	D5880/D5443		
	% v/v		D4815/D3606	3,0	
Oxygen content	% m/m	max	D4815	2,8	4
Butane content	% m/m	max	GC	4,0	
Metallic additives	mg/l	max	D3831	1	

