Nuclear Regulatory Commission
Exhibit # - SNC000032-00-BD01
Docket # - 05200011
Identified: 03/17/2009

Admitted: 03/17/2009 Withdrawn:
Rejected: Stricken:

SNC000032

Overview of

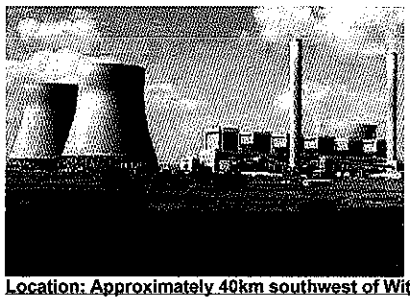
Kendal Power Station

Majuba Power Station

Matimba Power Station

Kendal Power Station

KENDAL POWER STATION



Location: Approximately 40km southwest of Witbank in Mpumalanga

Employees: Approximately 830

Technical details:

- Six 686MW units
- Installed capacity: 4 116MW
- 2001 capacity: 3 840MW
- Design efficiency at rated turbine MCR (%): 35.30%
- Ramp rate: 16.67% per hour
- Average availability over last 3 years: 93.69%
- Average production over last 3 years: 24 691GWh

History: Construction of Kendal began in July 1982 with its last unit coming into operation in 1993. Kendal is currently the largest coal-fired power station in the world and holds several Eskom performance records. The station is 13 years old this year.

General: Kendal has an indirect dry-cooling system, which means that it uses significantly less water in its cooling processes than the conventional wet cooled power stations. The station's cooling towers are the largest structures of their kind in the world with a height and base diameter of 165m.

Contact details:

- Switchboard Tel: (013) 647-9111
- Power Station Manager Mr. Gladman Mkwai
- Tel: (013) 647-6740/1 Fax: (013) 647-6904

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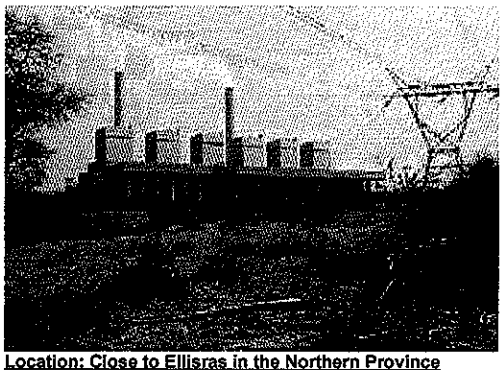
Matimba Power Station

MATIMBA POWER STATION



Location: Close to Ellisras in the Northern Province

Employees: Approximately 750

Technical details:

- Six 665MW units
- Installed capacity: 3 990MW
- 2001 capacity: 3 690MW
- Design efficiency at rated turbine MCR (%): 35.60%
- Ramp rate: 28.57% per hour
- Average availability over last 3 years: 93.67%
- Average production over last 3 years: 23 789GWh

History: Construction at Matimba started in 1981. It was located at Ellisras due to concerns about the air pollution levels around Witbank where most of Eskom's power stations are located and because of the large coal deposits in that area. Matimba's design is suitable for less water usage and therefor it is well located in Ellisras where water is scarce. The station is 14 years old this year.

General: Matimba is the largest direct dry cooling power station in the world, an innovation necessitated by the severe shortage of water in the area where it is situated. The station obtains its coal from the adjacent Grootegeluk Colliery which has sufficient coal reserves to guarantee Matimba a minimum lifespan of 35 years at 3 800 tons of coal per hour. The annual send-out power from Matimba amounts to approximately 24 000GWh.

Matimba is the holder of the world record of 80 days for six units on load.

Contact details:

- Switchboard Tel: (014) 763-8911
- Power Station Manager *Ms. Khumo Radebe*
- Tel: (014) 763-8200 Fax: (014) 763-3616

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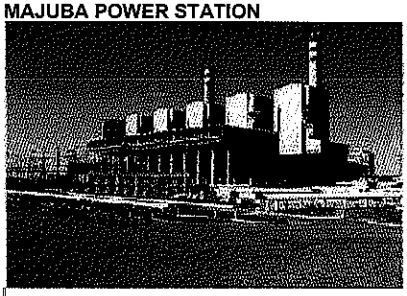
Majuba Power Station

MAJUBA POWER STATION



Location: Between Volksrust and Amersfoort in Mpumalanga.

Employees: Approximately 550

Technical details:

- Three 665MW dry-cooled units
- Three 716MW wet-cooled units
- Installed capacity: 4 110MW
- 2001 capacity: 3 843MW
- Design efficiency at rated turbine MCR (%): 35.30% (dry-cooled) : 37.70% (wet-cooled)
- Ramp rate: 16.67% per hour (dry-cooled)
- Average availability over last 3 years: 97.17% (dry-cooled)
- Average production over last 3 years: 5 170GWh (dry-cooled)

History: Construction at the Majuba site started in September 1983 and the first unit went on load on 1 April 1996. The last unit was handed over to Eskom by the contractors on 1 April 2001. The station is six years old this year.

General: Majuba is Eskom's only power station that is not linked to a specific mine and it receives its coal from various sources.

Safety: Majuba was awarded NOSCAR status in 2001 by the National Occupational Safety Association (NOSA).

Contact details:

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- Power Station Manager: Paula Goatley (Tel: (017) 799 3204)
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