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 Gert Sibande District Municipality  
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Date:  
 23 August 2016

Enquiries:  
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Dear Mr Hlanyane

### MAJUBA POWER STATION'S ANNUAL MONITOR AVAILABILITY CALCULATIONS

The calculations below indicate the availability of the continuous dust emissions monitors (PM) on all six units from the 1<sup>st</sup> of April 2015 to the 31<sup>st</sup> of March 2016. The gaseous emission monitors were only commissioned in April 2016 and therefore no data is available for the last financial year. This letter is submitted in terms of Section 15 of the Minimum Emission Standards and is considered to fulfill the reporting requirements in addition to the annual emission report submitted to your offices on 31 May 2016.

#### Majuba Dust Monitor Availability April 2015 to March 2016

##### Annual Summation 2016FY

Annual Running Hours						Annual Monitor Available Hours						Annual Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
7171	7814	7831	7484	1044	7749	7171	7787	7736	6972	932	7618	100.0	99.7	98.8	93.2	89.3	98.3

##### April-2015

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
720	720	603	593	0	720	720	720	603	571	0	720	100.0	100.0	100.0	96.3		100.0

##### May-2015

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
609	642	734	744	0	677	609	642	734	737	0	670	100.0	100.0	100.0	99.1		99.0

##### June-2015

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
323	719	622	715	0	596	323	719	622	715	0	596	100.0	100.0	100.0	100.0		100.0

##### July-2015

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
505	744	744	609	0	744	505	744	744	605	0	740	100.0	100.0	100.0	99.3		99.5

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**August-2015**

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
731	658	674	525	0	744	731	653	674	390	0	744	100.0	99.2	100.0	74.3		100.0

**September-2015**

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
715	662	683	672	0	699	715	640	683	396	0	631	100.0	96.7	100.0	58.9		90.3

**October-2015**

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
737	669	744	744	0	553	737	669	744	699	0	505	100.0	100.0	100.0	94.0		91.3

**November-2015**

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
725	690	675	542	0	720	725	690	675	541	0	720	100.0	100.0	100.0	99.8		100.0

**December-2015**

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
624	312	451	469	0	686	624	312	449	456	0	684	100.0	100.0	99.6	97.2		99.7

**January-2016**

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
181	680	612	744	47	608	181	680	597	744	39	606	100.0	100.0	97.5	100.0	83.0	99.7

**February-2016**

Total Running Hours						Total Monitor Available Hours						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
638	696	594	416	397	668	638	696	579	407	392	668	100.0	100.0	97.5	97.8	98.7	100.0

**March-2016**

Total Running Hours Per Month						Total Monitor Available Hours Per Month						Monitor Availability (%)					
U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6	U1	U2	U3	U4	U5	U6
663	622	695	711	600	334	663	622	632	711	501	334	100.0	100.0	90.9	100.0	83.5	100.0

Unit 5 was on a general overhaul from April 2015 and only came back on load in January 2016. This is the reason for blanks on the availability. Unit 4 dust monitor gave negative readings (drifting towards zero) during August and September 2015 while the unit was on load. Therefore availability is less than 80%. The OEM (Original Equipment Manufacturer) was called out to perform fine alignment on the monitor and it read well. Gert Sibande District Municipality was informed (Refer to attached letter).

Hoping the above will meet your satisfaction.

Yours sincerely

  
M. G. Mkwai  
MAJUBA POWER STATION MANAGER