

APPROVED GRID CODE DEROGATIONS

APRIL 2004

METERING CODE			
#	Requirement	Comments	Derogation
Entire Metering Code	Installing of Generator specific metering to comply with the Metering Code.	All Power Stations generally do not comply to the standards required in the metering code. This will be corrected by upgrading the metering. Estimated costs to comply (R40m – R60m).	“Until such time as the NER has made a decision regarding the upgrading of the installations, only new metering installations at power stations should comply”

SYSTEM OPERATIONS CODE			
#	Requirement	Comments	Derogation
2.1.4 (4)	The System Operator shall ensure the development, publication & implementation of adequate procedures for the efficient scheduling of generation and network outage as defined in Section 15.	Requested to allow the SO to develop its own capability in this regard for the external environment. People resources. Time to develop information systems and processes	“This function may be performed by another entity on behalf of the System Operator until such time as the necessary capabilities have been established ‘
4. (2)	The System Operator shall certify providers of ancillary services and keep a register of all certified providers.	Register is available on the Power Exchange website. Currently Power Exchange certifies providers for certain services only. People resources. Time to develop information systems and processes.	“Until such time as ancillary service providers external to Eskom participate, certification shall imply keeping a register.”

12 (5)	Incident Investigations	<p>In conflict with present arrangement. Currently performed by TAD on major incidents.</p> <p>Time to establish on an ESI basis.</p> <p>People resources.</p> <p>Time to develop information systems and processes.</p>	<p>“This function may be performed by another entity on behalf of the System Operator until such time as the necessary capabilities have been established.”</p>
15.	<p>Optimal reliability of the IPS shall be achieved by the System Operator co-ordinating scheduled outages of generators, TNSPs, distributors, end-use customers, and associated metering, communication and control facilities affecting IPS operation.</p>	<p>Requested until such time SO can develop its own capability. Within Eskom this is done by all line divisions and co-ordinated separately.</p> <p>People resources</p> <p>Time to develop systems and processes</p>	<p>“This function may be performed by another entity(s) on behalf of the System Operator until such time as the necessary capabilities have been established.”</p>
15.2 (1)	<p>The System Operator shall develop and maintain an electronic TS maintenance scheduling system.</p>	<p>SO has an outage scheduling program and not the maintenance scheduling system. The system is only usable in an Eskom context and not in the ESI context.</p> <p>People resources</p> <p>Time to develop systems and processes.</p>	<p>“This function may be performed by another entity(s) on behalf of the System Operator until such time as the necessary capabilities have been established.”</p>

NETWORK CODE			
#	Requirement	Comments	Derogation
2	Application for transmission connections - pg 4.	<p>At present a formal service delivery period does not exist for quotations. Eskom Distribution and KSACS manages this interface for Transmission.</p> <p>Eskoms' internal governance process does not allow compliance with the stipulated times in the Grid Code. The level of confidence on the quotes needs to be clarified if the time frames are to be met.</p> <p>People Resources, Skilled Analysts, Customer interface</p> <p>Cost, time to establish gaps and then to ensure compliance.</p> <p>Governance issues.</p>	<p>"This function may be performed by another entity on behalf of the NTC until such time as the necessary capabilities have been established. Different time frames may be negotiated with the customer, and the regulator will settle any dispute in this regard"</p>
3.1.5 (4)	Should the System Operator determine that a power station presents an unacceptable MUT risk for the network, the relevant generator and the Operator shall agree on the corrective action required to reduce the MUT risk and time frames within which to comply.	<p>This implies some audit capability and detailed power station and transmission reliability knowledge; see 3.1.5.2 (4).</p> <p>People resources, skilled analysts.</p> <p>Time to develop systems and processes.</p>	<p>"This function may be performed by another entity on behalf of the System Operator until such time as the necessary capabilities have been established."</p>

4.14 & 4.11	TNSP delivered QOS	<p>We do not have a documented agreement for each point of supply. We do not measure at each point of supply e.g 88 and 132 kV in same yard.</p> <p>Time to establish gaps and to ensure consistency.</p> <p>Information systems, Skilled analysts.</p> <p>Customer Interface</p>	<p>“Customers to agree in writing on the points of supply that do not comply by 2005/01. These points to be exempted until 2008/12”</p>
7.3	Forecasting the demand pg 30.	<p>This task is currently being done on a five yearly basis.</p> <p>People Resources, Skilled Analysts, Customer interface.</p> <p>Cost, time to establish gaps and then to ensure compliance.</p>	<p>“A 5-year forecast shall be adequate until 2005/12”</p>

INFORMATION EXCHANGE CODE			
#	Requirement	Comments	Derogation
4.4.1 (1)	The Market Operator shall provide the System Operator with the next day's twenty-four (24) hours day-ahead energy schedule and daily price curve by not later than 21h40 each day. The energy schedule shall be made available hourly on the day, 10 minutes before each hour. The System Operator shall import the energy schedule hourly, at five minutes to the hour, for dispatch.	No Market Operator. Only compliant internally if the Eskom Power Pool is considered as the Market Operator.	"Prior to the Market Operator being established, the function of Market Operator shall be performed by the entity duly licenced. Currently the function is performed by the Eskom Power pool Operator"
4.4.1 (2)	The Market Operator shall provide the System Operator with the daily 24 hours day-ahead ancillary service schedule before 21h40 each day. The ancillary service schedule shall be made available hourly thereafter to ensure the transfer of a new schedule owing to a reschedule by the System Operator. The System Operator shall import the ancillary service schedule hourly, at 5 minutes to the hour, for dispatch.	No Market Operator Only compliant internally if the Eskom Power Pool is considered as the Market Operator.	"Prior to the Market Operator being established, the function of Market Operator shall be performed by the entity duly licenced. Currently the function is performed by the Eskom Power pool Operator"

4.4.2 (1)	The format of the file used for data transfer through file transfers shall be negotiated with the System Operator. The data shall be made available in a common, electronically protected directory. All file transfer data shall be fetched by the System Operator.	No Market Operator. Only compliant internally if the Eskom Power Pool rules for file transfer is considered applicable.	“Prior to the Market Operator being established, the function of Market Operator shall be performed by the entity duly licenced. Currently the function is performed by the Eskom Power pool Operator”
5.1	The System Operator and the NTC shall provide market participants, including the Market Operator, with the information specified in the Market Code. Before the finalisation of the Market Code, the System Operator shall provide the following information: • Etc.	What information will be required. Role of other parties. Information is retained by different divisions according to the EPP market rules. Market Code not developed. Information systems, people resources, IT service levels. Time to implement.	“Prior to the Market Operator being established, the function of Market Operator shall be performed by the entity duly licenced. Currently the function is performed by the Eskom Power Pool Operator” “This function may be performed by another entity on behalf of the System Operator until such time as the necessary capabilities have been established in 2006.”
5.1.1	The Market Operator shall request all data required for settlement of the energy market from the NTC. The NTC shall make this information available, within an agreed time period. Should this information be classified as confidential, both parties shall treat it accordingly.	No Market Operator. Considered compliant if the EPP is regarded as the Market Operator.	“Prior to the Market Operator being established, the function of Market Operator shall be performed by the entity duly licenced. Currently the function is performed by the Eskom Power Pool Operator”

5.1.2	The Market Operator shall request all data required for settlement of the ancillary services market from the NTC. The NTC shall make this information available, within an agreed time period. Should this information be classified as confidential, both parties shall treat it accordingly.	No Market Operator Considered compliant if the EPP is regarded as the Market Operator.	“Prior to the Market Operator being established, the function of Market Operator shall be performed by the entity duly licenced. Currently the function is performed by the Eskom Power Pool Operator”
5.1.3	The System Operator shall provide operational information regarding unit dispatch and overall dispatch performance as specified in Appendix 7.	The work is ongoing. Information is retained by different divisions according to the EPP market rules. Info systems, people resources, IT service levels. Time to implement. Market Code will change the systems & information sent.	“This function may be performed by another entity on behalf of the System Operator until such time as the necessary capabilities have been established by 2006.”

METERING CODE			
#	Requirement	Comments	Derogation
5.1	<p>The following requirements shall apply to all metering installations:</p> <ul style="list-style-type: none"> • Etc. 	<p>The power stations do not have installations with main and check meters. Only the main meters are in existence and some not of the correct accuracy class.</p> <p>A pre-engineering project is required to establish to exact status of metering accuracy within the Power Stations.</p> <p>Noting that the code give the NTC a responsibility to ensure that there's meters at the defined metering points, TX request generation to carry out such a pre-engineering or carry it at the cost of Generation.</p> <p>The power stations do not have tariff meters with reactive measuring capacity.</p> <p>The metering points for the power stations are not finalized.</p> <p>Storage period</p> <ul style="list-style-type: none"> -exception of recorders -compensated meters <p>Cost, time to establish gaps and then to ensure compliance</p>	<p>"Until such time as the NER has made a decision regarding the upgrading of the installations, existing metering installations at power stations do not have to comply"</p>
7.2	<p>The NTC shall retain metering information for at least five years for audit trial purposes.</p>	<p>Five years can be retained currently but is not immediately available on line.</p> <p>Only 1year available online</p>	<p>"Data set to start with 2003 data. Full five-year data to be available by 2007/12"</p>