



HCS/21/2004

9th March 2004

To

All Consultants & Contractors

Dubai

Dear Customer,

**Chiller / Motor Loads Proposed to be Connected to
DEWA's Transformer**

Please be informed that, in order to improve the safety and reliability of power supply within consumer premises, the following requirement shall be implemented while proposing Chiller/Motor Loads to be connected to DEWA Transformer through consumers' Private Low Voltage Panel/s.

1. All Chillers above 100 kW power requirement, proposed to be connected to LV supply shall have multi stage compressors and designed for sequential start with a time delay of 1 to 3 minutes.
2. Following guidelines are to be considered at the design stage, to include Chiller / Motor Loads, for connection to DEWA Transformer through Private LV Panels.

Sr. No.	Description	1000 kVA Transformer	1500 kVA Transformer
1.	Maximum Total Connected Load permitted (Diversity Factor = 1.0)	650 kW	950 KW
2.	Maximum permissible Starting Current of each compressor/ motor	400 Amps. (Higher values may be permitted subject to submission of specific justifications).	540 Amps. (Higher values may be permitted subject to submission of specific justifications)
3.	Sequential start of chillers/ compressors	Only one compressor shall start at one time with a time delay of 1 to 3 minutes	Only one compressor shall start at one time with a time delay of 1 to 3 minutes
4.	Requirement of starters	Soft starters /or similar type to limit starting current as indicated in Item 2 above	Soft starters/similar type to limit starting current as indicated in Item 2 above.

The Consultants shall consider permissible Voltage Flicker limits, frequency of starting of the chillers, etc., to ensure safety of the consumers' equipment and installations and quality of supply, in their respective project/s.


All Consultants are requested to incorporate this requirement in their Drawings and Load Distribution Schedules and submit along with Chiller Control Schematics, Single Line Diagram, details of starter and other technical specifications to the Consumer Services Department in DEWA for approval, before commencement of the project.

Should you require any clarification on the above, please do not hesitate to contact us.

Thanking you in anticipation of your full co-operation.

Yours faithfully,

For DUBAI ELECTRICITY & WATER AUTHORITY


(Head of Consumer Services)

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