

[<Back to Questions>](#)**17. Can I get a computer simulation to demonstrate compliance with IEEE Std 519 or simply to show the LINEATOR™'s effectiveness in a specific application?**

In many applications, it is desirable to perform computer simulations prior to the VFD installation in order to ensure that the design will meet harmonic limits as defined in IEEE Std 519 or some other harmonic standard. In order to provide this service to our customers, Mirus has developed a custom computer simulation program, known as 'SOLV', which has been field proven to provide an accurate prediction of performance provided proper system information is applied. If a computer simulation is required, simply contact Mirus technical support.

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Mirus has the best performance guarantee in the industry because, unlike most competitive filters, it is not conditional upon pre-existing voltage distortion or system impedance levels. The standard LINEATOR guarantee is as follows:

MIRUS guarantees that the LINEATOR™ AUHF will perform as advertised to reduce harmonic distortion caused by AC Variable Speed Drives and other non-linear loads equipped with 3-phase, 6-pulse, diode bridge rectifiers. A properly selected and installed LINEATOR™ will:

1. Reduce Current Total Harmonic Distortion (ITHD), as measured at the LINEATOR™ input terminals, to < 8% at full load operation.
2. Reduce Current Total Demand Distortion (ITDD), as measured at the LINEATOR™ input terminals, to < 8% over the entire operating range.
3. Minimize the contribution to Voltage Harmonic Distortion of all VSD's equipped with the LINEATOR™ to < 5% total and < 3% for individual harmonics, as defined by IEEE Std 519-1992.
4. NOT become overloaded by other upstream harmonic sources.
5. NOT resonate with other power system components.
6. NOT have compatibility problems with engine generator sets properly sized for the load.

MIRUS' entire liability and Purchaser's exclusive remedy, at MIRUS' sole discretion, shall be the repair, replacement or full refund of purchase price of the product that does not meet MIRUS' Performance Guarantee and which is returned to MIRUS with a written authorization and a copy of the paid invoice. This guarantee is void if failure of the product has resulted from accident, abuse or misapplication.

In no event shall MIRUS be liable for loss, damage, or expense directly or indirectly arising from the use of the product, or from any other cause, except as expressly stated in this guarantee. MIRUS makes no warranties, expressed or implied, including any warranty as to the merchantability or fitness for a particular purpose or use other than as stated herein. MIRUS is not liable for any consequential or special damages arising out of any breach of warranty, and for any operation or maintenance of the product.