

**Are there opportunities for reducing IP
transmitter power using advanced signal
processing?**

Steve Collins

**At the ASEG conference in 2004
Norvill and Kopic claimed to have
achieved a 30-fold increase in signal to
noise.**

In special circumstances.

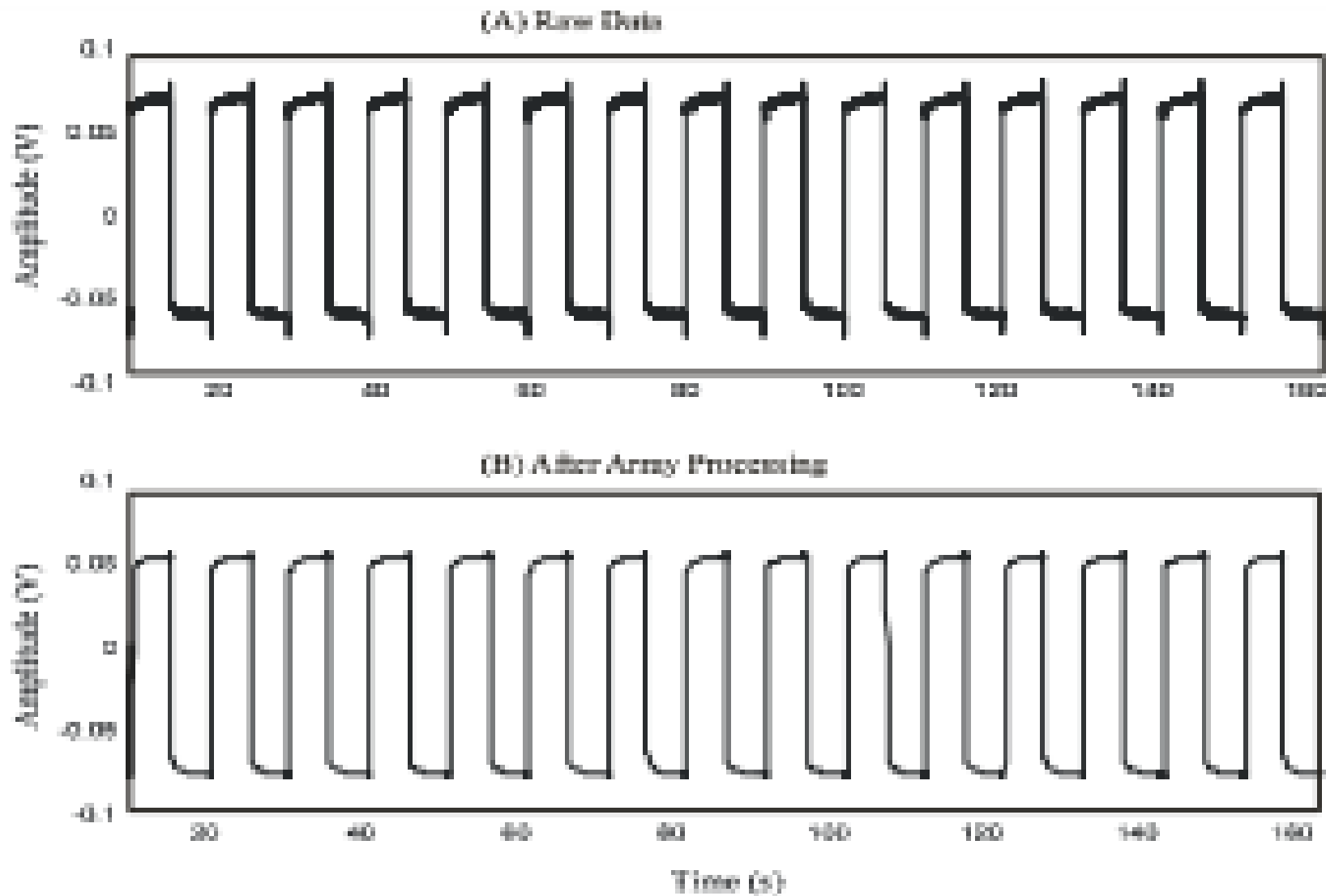


Figure 2. An example of the improvements made to IP data in remote Australia.

After Norvill and Kepic ASEG 2004

**An improvement of 30 times
In Signal/Noise**

**Is equivalent to a 1000 fold
Increase in transmitter power!**

**So your transmitter goes from
This.....**

GoviEx's Mongolian field team operating Zeus exploration technology at the Oyu Tolgoi Project

100kW system



After 'Zeus' promotional brochure



TO THIS ! 100 W

**Transmitter voltage drops from
1500 volts.**

To 50 volts.

**With the consequent massive
improvement in safety.**

While it may be difficult to devise processing algorithms to achieve this.

It is an aim which should be strongly pursued.

The benefits are too great to ignore.