Wind Turbine – V – Medical Incinerator at Simonswood West Lancashire:

Wind turbine wake stability via the "Vortex Ring Effect" simply explained.

At the proposed installation site the prevailing wind direction is predominantly North Westerly.

Wind yawed and sheared flow conditions resulting from the rotor wake including the ground effects can and often do result in Unstable, Dynamic Behaviour of the Generated Wind Flow.

Wakes **do not** propagate steadily behind the rotor and have a common tendency to Oscillate Randomly, a Phenomenon Dubbed "Wake Meandering" basically pushing air in all directions at all points of the compass.

Wind dispersion effects can change in minutes and are very much dependant on the current wind direction (Many Technical Studies are Available On – Line).

Wind "Leapfrogging" is a regular occurrence with all wind turbines on land or at sea.

There will always be Atmospheric Turbulence and Air Meandering in the wake generated by the turbine and additional external factors (such as Air Temperature) can indeed "Trigger" destabilising mechanisms within the wake area, in Lay Terms, contaminated air within the turbine "Vortex Ring" can be speedily displaced over a vast area independent of the current wind direction.

The Ground Effect can compress the air forcing it to disperse at will in any direction!.

The stack height of the proposed incinerator will make no difference to the wind dispersion of its Toxic content which will be dispersed at speed and with such force it will go in any direction irrespective of the wind direction.

Large Wind Turbines and Medical Waste Incinerators do not mix together under any circumstances.

It should not be forgotten that this proposed development is in the vicinity of a largely populated area and the lives of the population are being put at enormous risk.

Medical Waste Incinerator and Large Wind Turbine **NO CONTEST !.**

Cllr Lewis S.P.C.