

Dear Department of Environmental Quality and any other concerned citizens or organizations, 10/14/2013

I am writing this letter in **regards to "Intel's Title IV air quality permit."**

To start bluntly, the cost to the natural environment and to human health continues to be excessive and in fact has a direct correlation to these continued technological indiscretions. If we are to survive, as a species, on this planet, these debts to nature and human health will have to be paid with interest, only this interest will come not in the form of currency or monetary values but instead the health and well-being of the natural environment, the one in which we ultimately depend on to survive, and people.

The continued belief that these technologies are benefiting society more than they impact it is also a false illusion which cannot be seen, with the naked eye, by the majority of society who live outside the jurisdictions surrounding these factories. Although the negative impacts within these areas surrounding Intel and other "tech" corporations in the Pacific NW stretch from massive demolitions to the most fertile farm and forest land in the entire world (which by the way took hundreds of thousands of years for nature to create yet take only a few hours to destroy with our "technological advancements") to a substantial transformation of freshwater resources into a dangerous wastewater and on to the issue at hand which is the transformation of our current fresh, clean air into a downright dangerous, cancer-causing, respiratory-disease inhibiting, health hazard containing emissions through the addition of over 150 toxic chemicals, compounds and elements.

These implications will not only affect the people within certain radiuses of the factories themselves but will have larger implication that will affect people and the planet on a global scale. We must also consider the transportation and infrastructural increases needed to meet the corporate demand and their implications which have and will increase the amount of smog, photochemical smog and ozone. These are not only Human health hazards but the predominant environmental factor of dieback throughout the forests. These levels of dieback have already reached epidemic proportions so any proposed addition thereof ought to be highly scrutinized prior to implementation. Studies show that smog also correlates directly with increases in heart and lung disease related deaths. Research shows that increases in smog have led to a 6% increase in hospital admission for heart attack and 30% in asthma attacks. Add sulfur dioxide to that equation and the percentage of heart attacks goes up another 10%, asthma increases another 30%. An equivalent increase in nitric oxides has shown to increase that number of asthma attack to 63%. When similar increases in ozone occurred the admissions of elderly people with chronic breathing problems rose by 24% and lower respiratory tract infections in children rose by 24%. Increases in levels of ozone have resulted in suppressed immune systems in humans. The increase in ozone also has been proven to be dangerous at relatively low levels because ozone is a pulmonary carcinogen. Even today's scientists are arguing today that ozone should be reclassified as a suspected carcinogen due to studies of increased levels of ozone and their effects on mice.

Now on to a few of the negative benefits of anthropogenic (human created) atmospheric lead. This lead has found its way into water, food and our lungs. Lead causes injury to bone marrow, the kidneys, the nervous system and to the brain. This lead is related to IQ deficits in children, hearing impairments, fetal neurologic damage, reduced birth weight, reduced stature and slower attainment of developmental milestones. Women who were once exposed to an environment polluted with lead may pass on the poison to their offspring through the bloodstream during pregnancy. Children are particularly susceptible to lead poisoning. Although these are problems in which will mostly affect those residing within certain distances to transportation corridors and the campuses themselves there are in fact global implications as well. The lead emission of cars has been greatly reduced but that is not the case for air traffic where fuel is still leaded.

With the promise of catastrophic climate change we must reconsider at all levels what the value of adding greenhouse gas emissions to the atmosphere will entail and if our technological advancements, control over nature and rape of the earth are indeed worth the associated costs. These are consequences that not just those in the metro area will have to deal with, but

people all across the globe from all social and economic classes alike. These are not problems in which further technological advancements will be of any benefit; we cannot technologically intervene our way out of the destruction that our technological interventions have made.

Placing limits on the release of pollutants into our environment is increasingly recognized as the only way to save our environment. Those who are the major players and leading decision makers must change their discretionary decision making processes letting public information be known and let the information speak for itself versus the current model of infinite economic growth at the mercy of all else including those in which economic development is proposed to benefit, us humans.

I haven't even touched on the attack of technology on today's culture predominately youth through the media and even public schools which add to the dependence of "technological devices," creating further detachment from the natural world not to mention the psychological implications of these changes.

Matt Minnick

Daniel Pihl

503-887-6669

503-819-9945

mwminnick@gmail.com