HYPOCRISY AND INTRANSIGENCE -

MAINSTAYS OF

THE AGENT ORANGE CONTROVERSY

By

Dr. Wayne Dwernychuk
Environmental Scientist
British Columbia
Canada

From 1961 to 1971 over 77 million litres of herbicide were dispensed over southern Viet Nam by the US military through the code-named ‘Operation Ranch Hand’ (http://www.stellman.com/jms/Stellman1537.pdf and http://www.hatfieldgroup.com/UserFiles/File/ContaminantMonitoringAgentOrange/VietNamHighlights/SprayLines.PDF). The Vietnamese reported early on during the operation that human health was being adversely affected by widespread dispersal of defoliants. Agent Orange, a 1:1 mixture of 2,4-D and 2,4,5-T, was the most prevalent herbicide used (http://www.agentorangerecord.com/home/ and http://en.wikipedia.org/wiki/Agent_Orange).

The US government maintains their decades-old mantra that there is no unequivocal scientific evidence that use of Agent Orange has caused an increase in either birth defects in Viet Nam, or is related to other human health issues in Viet Nam. US government officials remain reluctant to accept Vietnamese studies/observations as sufficiently rigorous to definitively link US deployed herbicides to human health impacts, primarily in view of liability/compensation concerns.

The US Department of Veterans Affairs (US DVA) presently compensates US Viet Nam Veterans for health conditions that may have resulted from Agent Orange exposure while serving in Viet Nam (http://www.publichealth.va.gov/exposures/agentorange/birth_defects.asp and http://www.publichealth.va.gov/exposures/agentorange/conditions/birth_defects.asp). At least one of the health conditions for which compensation is paid has a genetic component, that is, spina bifida. It appears contradictory that the US ignores the health issues of Vietnamese citizens exposed to Agent Orange, but pays compensation to its Viet Nam Veterans for a number of illnesses related to their exposure to the herbicide ... illnesses that the US Institute of Medicine (IOM) has categorized as being ‘presumed’ to be related to Agent
Orange exposure, and subsequently adopted by the US DVA for veteran compensation purposes. As I understand it, compensation is awarded to a veteran if: 1) the person can prove that he or she was in the US armed forces during the time of the Viet Nam War; 2) the person can prove being in Viet Nam at the time of the Viet Nam War; 3) the person can prove the onset of the compensable disease after service in Viet Nam; and 4) the person possesses an honorable discharge from the military.

It should be noted that the categories set by the IOM, related to Agent Orange (i.e., TCDD) exposure and the ‘presumed likelihood’ of the expression of an illness being related to said exposure, results from the compilation of numerous studies from all over the world. The US policy is based on the ‘presumption of an association’ between exposure and disease, not on a ‘proof of cause and effect’. Inferences regarding association were drawn based on the literature, including toxicology and epidemiology studies pertaining to dioxin or herbicide exposure (e.g., farm workers, forestry workers, workers in chemical manufacturing plants). The Ranch Hand Study, one of the few comprehensive and systematic epidemiology studies, was included in the IOM assessment. The Ranch Hand Study was an epidemiological investigation conducted by the US Air Force to evaluate the frequency and nature of adverse health effects expressed by US Viet Nam Veterans that might be related to exposure to Agent Orange and other military herbicides used during the Viet Nam conflict.

The US DVA subscribes to a ‘presumptive exposure’ stipulation governing compensation, that is, if you had boots on the ground in Viet Nam, you were probably exposed to Agent Orange and, subject to the four conditions listed above, warrant compensation provided the illness is on the approved US DVA compensation list. This approach effectively concedes that a possible relationship (for purposes of compensation) does, in fact, exist between exposure and health consequences. However, if this ‘relationship’ holds for US Viet Nam Veterans in the eyes of the US DVA, I ask why does it not hold for the Vietnamese people for expression of the same illnesses that coincide with their exposure to Agent Orange? The US has apparently not addressed, or does not wish to address, this question, and continues unbendingly to evoke stronger criteria for people in Viet Nam than for US veterans, that is, the ‘no proven relationship’ mantra for exposure and health consequences in Viet Nam.

In Ha Noi on March 10, 2002 the US and Viet Nam signed a Memorandum of Understanding (MOU) which outlined comprehensive human health investigations and studies addressing the environmental consequences of Agent Orange. Although the environmental component of the MOU gained traction and resulted in valuable information being gathered, the human health segment became mired in controversy and disagreements on protocol, and eventually disintegrated, thus terminating any attempt to cooperatively
study the human health consequences of the herbicide in the Viet Nam theatre of conflict.

But what of the known consequences of Agent Orange and its constituents, and how this has played out in the ongoing debate of who knew what and when? Data linking birth defects in lab animals to 2,4,5-T exposure, one of the components of Agent Orange, and subsequently to the dioxin in 2,4,5-T in 1970/71, were instrumental in forcing the cessation of the Ranch Hand program. Chemical companies manufacturing Agent Orange, in concert with the US military, claimed ignorance regarding the potential for human health consequences as a result of exposure to the herbicide. However, in a ‘Confidential’ memo dated June 24, 1965 from V. K. Rowe of the Biochemical Research Laboratory of Dow Chemical, it is stated:

“As you well know, we had a serious situation in our operating plants because of contamination of 2,4,5,- trichlorophenol with impurities, the most active of which is 2,3,7,8,- tetrachlorodibenzodioxin [TCDD]. This material is exceptionally toxic; it has a tremendous potential for producing chloracne or systemic injury. ….. I am particularly concerned here with persons using the material on a daily, repeated basis such as custom operators may use it. The whole 2,4,5-t industry would be hard hit and I would expect restrictive legislation, either barring the material or putting very rigid controls upon it. ….. I trust you will be very judicious in your use of this information. It could be quite embarrassing if it were misinterpreted or misused.”

The recognition that TCDD was “exceptionally toxic” and has a “tremendous potential for producing chloracne or systemic injury” is an indisputable admission by the industry of the dangers inherent to the herbicide. Chloracne is an acne-like eruption associated with over-exposure to halogenated aromatic compounds, such as chlorinated dioxins. This condition was first described in German industrial workers in 1897.

The statement that “systemic injury” is also highly probable, resulting from exposure to the herbicide (i.e., TCDD), effectively categorizes the entire human body as being at risk for serious damage to critical systems/organs (http://www.atsdr.cdc.gov/substances/toxsubstance.asp?toxid=63).

Dr. Gerson Smoger, a lawyer for Viet Nam Veterans exposed to Agent Orange, addressed the US Supreme Court for leave to sue the chemical companies directly for health issues caused by their exposure to the herbicide. In March 2009, a decision was rendered wherein the right for such a lawsuit was denied. Dr. Smoger submitted a letter to all interested parties explaining the malicious conduct of the chemical companies, such as their knowledge of the toxic nature of 2,4,5-T (http://www.agentorangelaw.net/).
Dr. Smoger’s accounting in the above noted website presents in his ‘Item 3’ a statement that as far as he was able to ascertain, the US government was unaware of the toxic nature of 2,4,5-T and/or Agent Orange. However, other documentation suggests otherwise.

In addition to the clear admission by the chemical companies that they had knowledge of the toxic nature of dioxin, which was produced in tandem with the manufacture of 2,4,5-T, was a communication which I have great difficulty understanding how it has played so insignificantly in the arguments of responsibility.

On September 9, 1988 Dr. James R. Clary sent a letter to Senator Tom Daschle. Dr. Clary was a research scientist with the Chemical Weapons Branch of the US Air Force during the period 1962-1965. Dr. Clary’s comments in the above noted letter follow:

“When we (military scientists) initiated the herbicide program in the 1960’s, we were aware of the potential for damage due to dioxin contamination in the herbicide. We were even aware that the ‘military formulation’ had a higher dioxin concentration than the ‘civilian’ version due to the lower cost and speed of manufacture. However, because the material was to be used on the ‘enemy’, none of us were overly concerned. We never considered a scenario in which our own personnel would become contaminated with the herbicide. And, if we had, we would have expected our own government to give assistance to veterans so contaminated.”

This assertion from a former research scientist with the US military, involved in aspects of the Ranch Hand program, is clear evidence that those in charge of the program (i.e., the US government) were aware of the potential consequences of Agent Orange exposure, and that the claim of ignorance by the US military was unfounded. Dr. Clary’s quote appeared in Admiral Zumwalt’s May 1990 report to the US Secretary of the Department of Veterans Affairs which addressed the association between adverse health effects and exposure to Agent Orange [http://www.hatfieldgroup.com/UserFiles/File/ContaminantMonitoringAgentOrange/VietNamHighlights/Zumwalt.pdf]. Dr. Clary’s statement appears to have been ‘buried’ in the ongoing discourse regarding responsibility and knowledge of the toxic nature of Agent Orange.

Dr. James Clary recently contacted me (December 2011) as a result of my work on Agent Orange in Viet Nam. It became clear during telephone conversations that Dr. Clary sincerely regrets that he was not able to do more, and that more positive action has not been taken to help both US Viet Nam Veterans who were exposed to Agent Orange, and segments of the Vietnamese population who also suffer from such exposures ... particularly given the knowledge base of dioxin toxicity early on in the Ranch Hand program.
Dr. Clary provided me with a brief overview of some of his activities related to Agent Orange while in the Chemical Weapons Branch (pers. comm., January 23, 2012):

“I was the primary author of ADO 42 (Advanced Development Objective) for the chemical weapons, which included the design of the A/A45Y-1 ..., [the] herbicide spray tank ...that was ultimately installed on the C-123 [Agent Orange spray aircraft] ... We were hardware developers/testers ... We worked closely with the US Army ... to facilitate a “proper match” between the various agents and the hardware. If you are wondering how I came to have relevant info for the Senator [Senator Tom Daschle] ... while preparing my report, I came across a lot of pertinent documents from the early 60’s between the military and Dow/Dia Shamrock [Diamond Shamrock].”

Dr. Clary made the comment to me (pers. comm., January 21, 2012): “I would like the US Viet Nam Veterans to know that I tried to do the right thing” ... this in reference to him contacting Senator Daschle’s office and making the above noted statement on what the US military knew. In addition to the letter addressed to Senator Daschle, Dr. Clary provided a number of documents/reports to the Senator which further corroborated his declaration. He also wished me to convey these words to any US Viet Nam Veterans who may have occasion to read this article:

“Please let them know that I am sorry that I did not come forward sooner. Just maybe I’ll sleep a bit better if folks know that at least one scientist with the program [Chemical Weapons Branch] had/has regrets and is sorry for participating ......... I should not have been so naive as to believe that our government would take care of GI’s who became contaminated. I really feel sorry for the poor [victims] in Vietnam, knowing how so many have and will continue to suffer the effects of dioxin.”

report could have been an embarrassment to the US government if released in 1971.

It has long been acknowledged that the particular dioxin in Agent Orange, TCDD, is extremely toxic, persistent, and a carcinogen. In August 1997 the International Agency for Research on Cancer, a division of the World Health Organization, rendered this decision on TCDD (http://monographs.iarc.fr/ENG/Monographs/vol69/volume69.pdf).

There is a strong suggestion that the US government ‘indirectly’ accepts this conclusion, given that they have contributed millions of dollars to assist in the cleanup of dioxin contamination at the former Ranch Hand air base at Da Nang. A comprehensive assessment of dioxin contamination at the Da Nang air base may be found at: http://www.hatfieldgroup.com/UserFiles/File/AgentOrangeReports/DANDI-II1450/Da%20Nang%202009%20Report.pdf.

If dioxin was not a potential danger to human health in Viet Nam, and not responsible for illnesses in Viet Nam, why then is the US moving to assist Viet Nam in the cleanup of the Da Nang air base? I submit the US does, in fact, recognize the dangers of dioxin, in conjunction with a recognition of the need to provide assistance to Viet Nam, but not within the defining parameters of ‘compensation’. Nevertheless, it is hypocritical to not accept Vietnamese illnesses as being comparable to those suffered by US Viet Nam Veterans. Their adamant denial of the existence of absolute proof of a cause/effect relationship, related to Agent Orange exposure, appears unwavering. Proof of cause and effect is not required for compensation of US Vietnam Veterans, only a ‘presumed association’ of exposure to illness. Therefore, US policy pertaining to exposed people in Viet Nam directly contradicts US policy pertaining to exposed US Vietnam Veterans.

Suspicions continue to exist between the US and Viet Nam, although the deep freeze appears to be thawing, as evidenced by the recent assistance funding for dioxin cleanup activities and other humanitarian contributions from the US. In February 2003, a year after the MOU between the US and Viet Nam was signed, the then US Ambassador Burghardt submitted an ‘Unclassified’ memo, but labeled ‘Sensitive’, to the US Secretary of State focusing on the “assessment of Vietnamese attitudes” regarding the MOU. The twelve page memo outlines in detail how, according to the Ambassador, the Vietnamese were essentially responsible for the failure of the human health segment of the MOU. Even given this attitude, the US has moved to apparently be more sympathetic to the plight of Viet Nam on environmental and human health issues.

It is also stated in the ambassadorial memo that the Vietnamese do not wish to accept studies that indicate aerially sprayed regions of Viet Nam are not areas that require urgent remediation, given the level of contamination therein is very
low. The intimation being that Viet Nam wishes to advance the condition that dioxin contamination is rampant throughout southern Viet Nam. However, Viet Nam’s clear focus on former US military bases as dioxin ‘hot spots’ (http://www.popstoolkit.com/about/articles/aodioxinhotspotsvietnam.aspx, http://www.hatfieldgroup.com/UserFiles/File/ContaminantMonitoringAgentOrange/VietNamHighlights/Chemosphere_HotSpots.pdf, and http://www.aspeninstitute.org/policy-work/agent-orange/cleaning-dioxin-contaminated-soils), and, therefore, sites for urgent remediation, tends to refute the embassy position.

As noted, the politics of the Agent Orange controversy appears to have softened with a more cooperative/conciliatory stance being taken between the two governments. However, it is my opinion that the US will be hard pressed to deviate from their present position regarding cause and effect, regardless of how compelling the evidence ... and how contradictory their position is in not compensating Vietnamese citizens who display comparable illnesses that warrant compensation in US Viet Nam Veterans.

Perhaps it is time to set aside the elusive goal of undertaking lengthy and, undoubtedly, costly health studies to determine the relationship of Agent Orange exposure to human health issues in Viet Nam. With the scientific community’s clear acceptance that components of Agent Orange are toxic and may severely impact human health, it may be possible to move forward and assist Viet Nam in dealing with their problem of dioxin contamination without pointing fingers. The ongoing support of the US in assisting dioxin cleanup activities at Da Nang, for example, is a highly positive step; given these circumstances, it would appear there is room for optimism.

Funds that might be necessary to clearly elucidate a definitive cause/effect relationship between Agent Orange exposure and human health effects should be used for much needed humanitarian purposes in Viet Nam. Much good could be accomplished without the necessity of proving a ‘rigorous cause/effect link’. Vietnamese victims coping with the legacy of Agent Orange are facing an uncertain future ... they require urgent assistance ... proving a cause/effect link would require considerable time and significant dollars ... this should not take precedence over addressing Viet Nam’s immediate humanitarian needs.