WHO WATCH: Mike Repacholi & the EMF Charade

Time To Stop the WHO Charade

July 5, 2005... Now we know what Mike Repacholi has been doing since the infamous Mike-and-Leeka flip-flop of 2003. Back then Repacholi and his assistant Leeka Kheifets decided that there was no need to apply the precautionary principle to EMFs—soon after telling everyone that the time for action had finally arrived.

It appears that for the last two-and-a-half years, when not shuttling from one meeting to another, Mike has been cataloguing ways the WHO can avoid taking precautionary steps to reduce EMF exposures.

Mike’s apologia will be presented next week at a three-day workshop in Ottawa, July 11-13. He calls it a policy framework. We call it a sham. Mike has assembled a list of reasons for doing nothing. Electric utilities and telecom companies could have written the WHO plan. They may well have played a leading role.

You can see where Mike’s sympathies lie from the workshop agenda: the GSM Association, the U.K. National Grid, the American Chemical Council, Shell Canada, have all been invited to speak, together with an assortment of academics, risk consultants and a few of his WHO buddies.

Mike has not even made a pretense of having a balanced program. Absent are labor, consumer and environmental groups, save one small Canadian organization. John Swanson of the National Grid will be in Ottawa, but Alasdair Phillips, England’s leading and most knowledgeable EMF activist, will not be there—no doubt because he would openly challenge Repacholi’s pro-industry sympathies.

Power lines or mobile phones are not really even on the workshop agenda. Only Mike is slated to address the EMF issue. Instead, the Ottawa workshop will address many of the major social risks that are in the news: global warming, mad cow disease, and even a flu pandemic which could wipe out many of us long before the ice caps melt. Mike’s message is loud and clear: Don’t worry about a tiny—and unlikely—EMF health risk when there are more important threats on the horizon.

Back in early 2003, there were enough reasons to invoke the precautionary principle for power-frequency EMFs and for RF from mobile phones. Over the last year, more studies have reaffirmed the need for caution. Three (continued on p.2)
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different data sets now implicate long-term use of mobile phones with acoustic tumors: Two from the Örebro group and one from the Karolinska group. The University of Vienna has found support for Henry Lai and NP Singh’s studies showing that RF radiation can break DNA—these results from the REFLEX research program indicate that RF radiation may well be genotoxic after all. And even more recently, an Australian researcher reported additional evidence that RF can break up DNA.

Just last month, a British team published a paper in the British Medical Journal showing that children living near power lines had higher than expected rates of leukemia. The National Grid’s Swanson is one of the authors of that paper, but at this point he is not slated to discuss it in Ottawa.

Mike has no use for any of this new information—none of it is cited in his framework—because he has already made up his mind that nothing needs to be done. When the REFLEX DNA work first hit the media, Mays Swicord and his gang at Motorola didn’t have to say a word because their man in Geneva, Mike Repacholi of the World Health Organization, was ready to speak for them. Mike offered immediate reassurances that the Vienna results are spurious and may be discounted. “One has to question what went wrong, or was different, for them to get the results they claim,” Mike told the New Scientist.

Mike wants us to believe that his is the voice of reason, but, in fact, it is his views that are out of step with those of many national governments. China, Italy, Switzerland and Russia have all adopted precautionary exposure limits—directly rejecting Mike’s pleas for harmonizing radiation standards. Expert panels in England, France, Germany and Russia have all issued statements discouraging children from using mobile phones.

To his shame, Mike was the only member of Sir William Stewart’s panel to object when, in 2000, it was the first to call for children to avoid cell phones. English kids, like others everywhere, love their mobile phones and use them all the time. Neither they nor most of their parents have ever heard of Sir William’s cautionary advice. But even though largely ignored by consumers, Sir William, with this single recommendation, underscored our ignorance about radiation health effects and prompted continued health research. He set a tone for others to follow.

Sir William’s imperative is to protect public health. That is also supposed to be Mike’s mission at the WHO. But his words and action make it clear that his principal interest is in the wellbeing of his corporate friends.

As the old saying goes, “If it walks like a duck, and quacks like a duck, then it’s a sure bet, that it’s a duck.” Mike’s actions and words are those of an industry operative. And for all we know he may be one.

Mike has repeatedly refused to disclose who is paying for his EMP project and all its conferences and workshops. We do know that WHO does not foot the bill. Mike has to raise his own budget and travel funds. We also know that he found a way to skirt the WHO rules that bar direct industry support—the mobile phone manufacturers have said that they provide him with $150,000 a year with additional money for meeting and travel expenses.

But where does all the other money come from? What’s stopping Mike from doing the right thing? Why doesn’t he issue a simple and clear message that EMFs and RF radiation present possible health risks and that, until more answers are in hand, we should try to reduce unnecessary exposures. All he needs to do is to offer a single sentence of advice: Be careful until we know more about the health risks. That’s it. A simple public health message of caution from the World Health Organization.

It’s time for the Mike-and-Leeka charade to come to an end. Show us the money, Mike. Show us who’s paying the bills. Maybe then we will know who you are really working for.

WHO Now Says to Kids: Reduce Your Phone RF

July 12, 2005... In a major change of policy, Mike Repacholi is now advising children to reduce their radiation exposure from mobile phones. Repacholi, who leads the World Health Organization’s EMF project, has told CTV (Canadian television) that the “WHO recommends that children should use hands-free headsets.”

In the past, Repacholi has shunned precautionary policies. He has steadfastly argued that children have no reason to protect themselves when using mobile phones. For instance, in its last fact sheet on mobile phones, No.193 revised in 2000, the WHO stated: “Present scientific information does not indicate the need for any special precautions for use of mobile phones. If individuals are concerned, they might choose to limit their own or their children’s RF exposure by limiting the length of calls, or using ‘hands-free’ devices to keep mobile phones away from the head and body.”

Repacholi’s change of outlook comes with the opening of his workshop, being held in Ottawa, on how to deal with uncertain risks and the publication of a major series in the Toronto Star on the potential health risks associated with use of mobile phones by children, at a time they are being targeted by the marketing arms of cell phone companies.

Repacholi Flip-Flops Again

August 3, 2005... Remember this: The next time Mike Repacholi tells you something, it probably means nothing at all.

A couple of years ago, he advocated precautionary policies for EMFs from power lines and RF radiation from mobile phones,
but soon afterwards he backed off, saying it was all a misunderstanding (see MWN, M/A03 and M/J03).

Now he’s done it again.

Cell phones are safe and children need take no special precautions—unless they or their parents are concerned—Repacholi advises in a just-released clarification, reaffirming a five-year old policy statement.

Repacholi sang a different tune when he was in Canada last month for his workshop on setting precautionary policies under uncertainty. That same week (July 9-14), the Toronto Star ran a major series on the controversy over the safety of cell phones, with special emphasis on the possible risks to children. Under the media spotlight, Repacholi, promoted precautionary policies for children’s use of mobile phones.

“With respect to children, WHO recommends that children should use hands-free headsets,” Repacholi told Canadian TV.

“We certainly advocate precautionary measures for children,” Repacholi told the Toronto Star.

“With respect to children, WHO recommends that children should use hands-free headsets” reported ConsumerAffairs.com.

Repacholi would have us believe they all got it wrong.

Tyler Hamilton, one of the two reporters who wrote the Star series is standing firm. “Repacholi said it in three different forums plus I saw him say it on television,” Hamilton told Microwave News.

“He said it to me in a telephone interview, he wrote it to me in an e-mail and I heard him say it at the Ottawa conference.”

Hamilton forwarded an e-mail Repacholi had sent him a few days before the conference. This is part of what Repacholi wrote:

“WHO has already said on a number of occasions that children’s exposure should be reduced. However the best way to achieve this is to ask them to use hands-free-kits.”

In his latest clarification posted on the WHO Web site, Repacholi states that “WHO’s policy on mobile phones, released in 2000, remains intact.” He goes on: “WHO’s International EMF Project does not change its position through media reports, rather policies and recommendations will only be amended in documents through normal WHO information outlets.”

We beg to differ.

Mike Repacholi does change his position for media reports. He believes that he can say whatever he wants when under pressure and that he can retract it all later.

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**Repacholi and Sound Science**

**August 3, 2005...** When asked by a Canadian who is electro-sensitive for a response to our July 5 commentary, “Time To Stop the WHO Charade,” here’s part of what Repacholi replied:

“As you know WHO has built the highest possible reputation in public health matters among the public and governments world wide and the EMF Project will not be deviating from the sound science course that sustains this high esteem, no matter what the pressures from self interest groups or individuals. Louis appeals to people who do not believe in the scientific method for resolving issues. He, like others who are unable to argue a scientific case always claim WHO decisions are industry biased—a completely untrue position” [our emphasis].

At the risk of pointing out the obvious, our criticism of WHO’s EMF project has nothing to do with science per se, but how Mike Repacholi sets policies based on the science—both what the science tells us and, just as importantly, what it doesn’t tell us.

As we noted in the commentary, many national governments have looked at the same body of scientific data and have promoted precautionary policies. These include China, Italy, Switzerland and Russia. In addition, expert panels in England, France, Germany and Russia have issued advisories discouraging children from using mobile phones.

Perhaps, it is easier for Mike to single us out than to address those who seek to protect the public health of well over a billion people, including the national government of Switzerland, WHO’s host country.

As we have stated time and time again, the WHO should err on the side of public health, not the interests of the wireless industry.

We should also highlight Mike’s use of the phrase “sound science.” As Elisa Ong and Stanton Glantz of the University of California, San Francisco, have pointed out, these seemingly unchallengeable words were coined by the tobacco industry and other corporate interests to manipulate public opinion. Here is some of what they wrote in the American Journal of Public Health in November 2001:

“Public health professionals need to be aware that the ‘sound science’ movement is not an indigenous effort from within the profession to improve the quality of scientific discourse, but reflects sophisticated public relations campaigns controlled by industry executives and lawyers whose aim is to manipulate the standards of scientific proof to serve the corporate interests of their clients.”

The WHO has long been targeted by the tobacco industry in its continuing efforts to water down control initiatives. Ong
and Glantz have also documented the campaign waged against
the IARC study on second-hand smoke.

A detailed report on the tobacco industry’s nefarious activi-
ties was released in 2000. At that time, Nature ran an editorial
calling for the WHO and other groups to “strengthen their guard
against conflicts of interest.”

As we have reported (see M/WN, N/D01), a number of the
players in the mobile phone controversy have also worked for
the tobacco industry—most notably, George Carlo.

Where does Mike Repacholi fit in to all this? No one will
know until he opens up his books and tells us who is paying the
bills for the EMF charade that he runs out of the WHO offices in
Geneva.

Once again, we ask: Show us the money, Mike.

Money Talks and WHO Follows

August 8, 2005... EPRI, the Electric Power Research Institute,
the research arm of the electric utility industry, has lots of money
and is not shy about using it to push its agenda.

Today, EPRI is the only source of research funds on power
line EMFs in the U.S. In recent times, practically all of EPRI’s
money has been devoted to pushing the idea, championed by
staffer Rob Kavet, that contact currents—not EMFs—are re-
ponsible for the oft-observed increase in childhood leukemia. Kavet
may be on to something, but at the moment only Kavet himself
and his contractors embrace this hypothesis.

Actually, there is another: The WHO EMF Project in
Geneva.

EPRI was one of the sponsors of WHO’s workshop on EMF
risks to children, held in Istanbul last summer.

EPRI also paid Leeka Kheifets to prepare a review of the
epidemiologic evidence for the EMF-childhood leukemia link.
She presented a draft at the meeting; the final paper, “The Sensiti-
ity of Children to Electromagnetic Fields,” appears in the Au-
umn issue of Pediatrics, which is posted on the Inter-

et. (You can download a complete copy of the Pediatrics
paper for free.)

Most of you will remember that Kheifets was a coconspira-
tor, with Mike Repacholi, in the infamous flip-flop over apply-
ing the precautionary principle to EMFs (see M/WN, M/A03 and
M/J03). After announcing a decision to adopt precautionary poli-
cies, they backed off without any explanation for the reversal.

Before joining Repacholi in Geneva, Kheifets worked at
EPRI in California for many years, where she was Kavet’s boss.
She now has a position at the University of California, Los An-
geles. She continues to do a lot of work for Repacholi.

Kavet’s non-EMF theory gets top billing in both Kheifets’s
review paper, and the workshop report.

Kheifets and Repacholi, as they have done in the past, cast
the EMF-childhood leukemia association as still highly uncen-
tain due to the lack of a mechanism. They write:

“At present there is no experimental evidence
that supports the view that [the EMF-childhood
leukemia] relationship is causal.”

What is left out of both papers is the fact that at least six
different labs have shown that power-frequency EMFs can break
DNA. It’s true, we don’t know how EMFs can do this, but it has
been observed experimentally over and over again.

Kheifets and Repacholi must be aware of the DNA work.
If EMFs can break DNA, EMFs can certainly play a major
role in the etiology of childhood leukemia. But this is an incon-
venient fact for both EPRI’s Rob Kavet and WHO’s Mike
Repacholi. They have common interests: In addition to both sup-
porting Kheifets, neither wants to endorse precautionary poli-
cies to protect children from EMFs.

Here’s the payoff—from the conclusion of the Pediatrics
paper (with some emphasis added):

For ELF (power-frequency) fields, there is some
evidence that exposure to environmental mag-
netic fields that are relatively high but well be-
low guidance levels is associated with an in-
crease in the risk of childhood leukemia, a very rare
disease (even if the risk is doubled, it re-
mains small at 5-8 per 100,000 children per
year). Although the evidence is regarded as in-
sufficient to justify more restrictive limits on
exposure, the possibility that exposure to ELF
magnetic fields increases risk cannot be dis-
counted. For the physician faced with questions
from, for example, a couple planning a family
and concerned about this issue, or from some-
one pregnant and occupationally exposed to rel-
atively high ELF magnetic fields, standardized
advice is not possible. Instead, physicians could
inform their patients of possible risk and advise
them to weigh all the advantages and disadvan-
tages of the options available to them (of which
EMF reduction is but one consideration). Some
simple options include reducing exposure by
minimizing the use of certain electrical ap-
pliances or changing work practices to increase
distance from the source of exposure. People
living near overhead power lines should be
advised that such proximity is just an indica-
tor of exposure and that homes far away from
power lines can have similar or higher fields.

This may read like it was written at EPRI, but the paper is
signed by Kheifets, Repacholi, together with Rick Saunders (on leave from the U.K. Health Protection Agency) and Emilie van Deventer, all affiliated with the EMF project at the World Health Organization.

How much money does EPRI give the EMF project every year? How much support did EPRI provide for the Istanbul workshop? And how much did Kavet pay his old boss Kheifets for the literature review? We don’t know because Repacholi continues to refuse to open up his books.

But whatever the cost to EPRI, you can be sure that Kavet’s managers back in Palo Alto, California, are pleased.

One final footnote: Kheifets was recently hired to serve as a consultant to the California Public Utility Commission (CPUC) to help develop state EMF policies. She will receive approximately $58,000, plus expenses. In her application, she told the presiding administrative law judge that, “I believe that rigorous application of Precautionary Framework to EMF is appropriate.”

Hmmmmm....We wonder how we should interpret the word “rigorous.” Actually, it doesn’t matter. It’s doubletalk. The capital “P” and “F” indicate that she is referring to Repacholi’s framework and we know that neither of them has any interest in applying precautionary EMF policies (see the July 5 entry, above).

When Kheifets applied for the CPUC job, she requested that her personal financial information be kept confidential because its release “would unnecessarily intrude on [her] privacy.” Maybe so, but it would reveal how much EPRI and Repacholi are paying her, while she gives advice—on behalf of the rate-paying public—to California regulators.

Most surprising of all is that, in his ruling granting her request, the judge noted that not one of the many EMF activist groups in California challenged Kheifets’s application.

$50,000 for a Literature Review

August 9, 2005... UCLA School of Public Health, Leeka Khefiet received $50,000 from EPRI for her work on the WHO workshop on EMF risks to children. UCLA calls it a “ joint WHO/EPRI” workshop.

That’s a lot money for a review paper (250 hours@$200/hour). Or is this another way for Mike Repacholi’s EMF project to skirt WHO rules prohibiting direct industry funding?

WHO Welcomes Electric Utility Industry To Key EMF Meeting

September 22, 2005... The week of October 3 in Geneva, the World Health Organization (WHO) will set its recommendations for public exposures to power-frequency electromagnetic fields (EMFs).

A 20-member task group from 17 countries, assembled by Michael Repacholi, the head of the WHO EMF project, will finalize an Environmental Health Criteria (EHC) document, which is designed to guide the development of standards for extremely low frequency (ELF) EMFs all over the world. It will likely represent WHO’s official position on EMF health risks for years to come.

Last month, Repacholi gave eight observers the green light to attend the meeting—all eight either work for electric utilities or have direct and strong ties to the industry. Other than WHO staff, these are the only people on the Repacholi’s list of approved observers:

Kazu Chikamoto, Japan NUS Co., Tokyo
Rob Kavet, EPRI, Palo Alto, CA, U.S.
Michel Plante, Hydro-Quebec, Montreal, Canada
Jack Sahl, Southern California Edison, Upland, CA, U.S.
Martine Souques, Electricité de France-Gaz de France, Paris
Hamilton Moss de Souza, CEPEL, Brazilian Electrical Energy Research Center, Rio de Janeiro
John Swanson, National Grid, London, U.K.
Tom Watson, Watson & Renner, Washington DC, U.S.

Although Watson is on the list, he will not be at the meeting. “I tried to become an observer, but I did not succeed,” he said in a
recent interview. It is not clear why Repacholi changed his mind and disinvited Watson.

Chris Portier of the U.S. National Institute of Environmental Health Sciences (NIEHS) will chair the task group.

Very few other members of the EMF community are aware of the meeting. A spot check, an admittedly unscientific survey, found that staff members at U.S. health agencies knew nothing about it. The single exception said that he had heard about it from colleagues in the electric utility industry.

When asked whether Microwave News could sit in as an observer, Repacholi dismissed the idea. “The press is not permitted to attend EHC Task Group meetings,” he told us.

Did Repacholi invite the industry representatives? If not, how and when did they first learn about the meeting and request observer status? Have any of the companies or associations, other than EPRI, contributed to the WHO EMF project or its activities? EPRI cosponsored a WHO workshop on EMF risks to children held last year in Istanbul (see August 8 entry above), but it is not known whether EPRI’s Kavet has made other contributions to the WHO. All these questions need answering.

While Repacholi has long said that the EHC would be revised around this time, the specific schedule has not been previously publicly disclosed. For instance, the October 3-7 task group meeting is not in the listing of meetings on the WHO Web site nor is it included in the Bioelectromagnetics Society Newsletter conference calendar.

The WHO released its first EHC for ELF EMFs in 1984. Repacholi chaired the task group that wrote that report. Back then, 20 years ago, the panel recommended that: “efforts be made to limit exposure, particularly for members of the general population, to levels as low as can be reasonably achieved” (a policy known as ALARA). Yet for the last ten years while he has been at the helm of the WHO EMF project and while the health risks posed by power-frequency fields have become much less uncertain, Repacholi has consistently refused to endorse ALARA for ELF EMFs.

In addition to NIEHS’ Portier, the members of the EHC task group are:

Houssain Abouzaid, WHO Regional Office for the Eastern Mediterranean, Cairo, Egypt
Anders Ahlbom, Karolinska Institute, Stockholm, Sweden
Larry Anderson, Battelle Pacific Northwest Labs, Richland, WA, U.S.
Christoffer Johansen, Danish Cancer Society, Copenhagen
Jukka Juutilainen, University of Kuopio, Finland
Sheila Kandel, Soreq, Yavne, Israel
Leeka Kheifets, University of California, Los Angeles and EPRI, Palo Alto, CA, U.S.
Isabelle Lagroye, University of Bordeaux, France
Rüdiger Matthes, Federal Office of Radiation Protection, Oberschleissheim, Germany
Alastair McKinlay, Health Protection Agency (HPA), Didcot, U.K.
Jim Metcalfe, University of Cambridge, U.K.
Meike Mevissen, University of Berne, Switzerland
Junji Miyakoshi, Hirosaki University Faculty of Medicine, Japan
Eric van Rongen, Health Council of the Netherlands, The Hague
Nina Rubtsova, RAM Institute of Occupational Health, Moscow, Russia
Paolo Vecchia, National Institute of Health, Rome, Italy
Barney de Villiers, University of Stellenbosch, Cape Town, South Africa
Andrew Wood, Swinburne University of Technology, Hawthorn, Australia
Zhengping Xu, Zhejiang University School of Medicine, Hangzhou, China

Those attending from WHO include Elisabeth Cardis (IARC); Chiyoji Okubo, Rick Saunders (on leave from the U.K. HPA) and Emilie van Deventer.

As we post this on the Web, we have learned that Michinori Kabuto of Japan’s National Institute for Environmental Studies will also be an observer at the meeting.

Five years ago, the Committee of Experts on Tobacco Industry Documents issued a 260-page report documenting the tobacco industry’s strategies to undermine the work of the WHO. In response, the WHO issued 15 pages of recommendations on how to make sure its work is never subverted again.

Nevertheless, the WHO appears to be unable to apply the hard lessons it learned from tobacco to other potentially harmful agents. Instead, the WHO now simply invites the industry to be part of the process.

WHO and Electric Utilities: A Partnership on EMFs

October 1, 2005... As members of the WHO Task Group make their way to Geneva for next week’s meeting to complete its Environmental Health Criteria (EHC) document on power-frequency EMFs, new information has emerged showing that the electric utility industry has played a major role at every stage of developing the review document.

Microwave News has learned that Mike Repacholi, the head of the WHO EMF project, recruited utility representatives to help write the original draft of the document and later asked them to review the completed draft. Then, as we reported last week, Repacholi invited eight utility representatives to attend next week’s task group meeting — the only observers who were invited (see September 22 entry above). The task group and the
industry observers will assemble at a WHO conference room in Geneva on Monday, October 3 to recommend exposure limits.

Documents show that Leeka Kheifets played a central role in drafting the EHC document. Kheifets has had a long relationship with EPRI, the research arm of the electric utility industry. She worked for EPRI before becoming Repacholi’s assistant in Geneva. Now, back in California, Kheifets recently disclosed to the British Medical Journal that she “works with the Electric Power Research Institute… and consults with utilities.” Among those who collaborated with Kheifets on the EHC document include: Gabor Mezei, also of EPRI, Jack Sahl of Southern California Edison, the U.S. utility and John Swanson of National Grid, the U.K. utility.

Repacholi sent a draft of the EHC out for review in early July. Among those asked for comments were:

- William Bailey, Exponent Inc., U.S.
- Federation of Electric Power Companies of Japan (FEPC)
- Kent Jaffa, Pacificorp, U.S.
- Michel Plante, Hydro-Quebec, Canada
- Utility Health Sciences Group (USHG), U.S.

To be sure, a number of independent researchers also participated, but it is highly unusual, if not unprecedented, for a WHO health document to be reviewed by so many with such strong ties to the affected industry.

Not surprisingly, most of the industry comments seek to downplay potential health risks. Here, for example, is an excerpt from those filed by Plante on the epidemiology chapter:

“The whole section on cancer seems more like a desperate attempt to maintain some positive statistical association from epidemiological studies alive than a factual and honest presentation of arguments both, for and against, carcinogenicity.”

Plante, who will sit in on the weeklong deliberations at Repacholi’s invitation, has been assigned to the epidemiology working group, where he will no doubt continue to maintain that the link between EMFs and childhood leukemia is inconsequential.

Plante has played a villainous role in the EMF controversy. A decade ago, he was involved in stopping work on an epidemiological study on possible EMF cancer risks to electric utility workers. The Canadian-French study was the first—and the last—to investigate whether exposure to high-frequency transients could lead the cancer. The multi-million dollar study, published in the November 1, 1994 issue of the American Journal of Epidemiology was considered, at the time, a landmark event. The research team led by Ben Armstrong and Gilles Thériault of McGill University found strong cancer risks as well as dose-response. Members of the EMF community were excited by the results and looked forward to follow-up efforts. But, Plante worked with others at Hydro-Quebec to shut down the McGill project by forcing Thériault to return the data he and the others had painstakingly collected (see MWN, N/D94). Thériault was never allowed near it again.

Jack Sahl, another invited observer who will also sit in on the epidemiological working group, was a leading member of the USHG for much of the 1990s. The USHG was the brainchild of Tom Watson, now of Watson & Renner, a law firm based in Washington. In the 1990s, all the major electric utilities in the U.S.—by one count, 76 participated—were members of the USHG. Watson was originally invited to attend next week’s meeting, but his invitation was later withdrawn. Still obscure is why Repacholi changed his mind and disinvented Watson.

It is not known who wrote the comments submitted by the USHG, but it is possible that every electric utility that is a member of the USHG was given the chance to review the WHO document and funnel its comments back to the WHO.

What is clear is that the USHG attempted to weaken the EHC document. For instance, while the draft states that, “evidence is increasing that magnetic fields could interact with DNA-damaging agents, at least in some cellular models,” the USHG suggested that for the “sake of clarity and balance… it would be useful to include… ‘Any such effects on DNA cannot, however, be considered as established.’”

USHG also proposed the following change in the chapter on protective measures: “It should also be pointed out that ‘redirecting facilities or redesigning electrical systems may be so expensive as to be inconsistent with the low-cost and no-cost steps typically viewed as prudent avoidance.’”

Nor was the USHG bashful about promoting the utility position, arguing:

“It would be useful for the summary to include a clear statement that the scientific research does not establish ELF EMF as a cause or contributing factor in any disease or adverse health effect, including cancer.”

Very useful to industry, indeed.

Thanks to Repacholi, the electric utility industry has been and continues to be a full partner in the writing of the EMF document—a document which will be the WHO’s official position on EMFs for years to come. The most disconcerting part of all is that no one at the WHO thinks he is doing anything wrong.