

Régie de l'énergie - Dossier R-3770-2011

Autorisation d'investissement - Projet Lecture à distance (LAD) – Phase 1 d'Hydro-Québec Distribution

C A N A D A

PROVINCE DE QUÉBEC
DISTRICT DE MONTRÉAL

DOSSIER R-3770-2011

RÉGIE DE L'ÉNERGIE

AUTORISATION D'INVESTISSEMENT
PROJET LECTURE À DISTANCE (LAD) –
PHASE 1
D'HYDRO-QUÉBEC DISTRIBUTION

HYDRO-QUÉBEC
En sa qualité de Distributeur

Demanderesse

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STRATÉGIES ÉNERGÉTIQUES (S.É.)

ASSOCIATION QUÉBÉCOISE DE LUTTE
CONTRE LA POLLUTION ATMOSPHÉRIQUE
(AQLPA)

Intervenantes

LISTE DES PIÈCES

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Le 15 mai 2011

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TABLE DES MATIÈRES

A.	RAPPORTS DES PREMIERS TÉMOINS DE SÉ-AQLPA (BERNARD SAULNIER, STÉPHANE BÉLAISKY, BRIGITTE BLAIS ET JACQUES FONTAINE)	1
B.	CURRICULUM VITAE.....	4
C.	PREMIERS DOCUMENTS DE RÉFÉRENCE	5
D.	PORTÉE JURIDIQUE DU CODE DE SÉCURITÉ 6.....	11
E.	RAPPORT DU DR. CARPENTER ET PIÈCES JOINTES	12
.	C.....	ERREUR ! SIGNET NON DEFINI.

STRATÉGIES ÉNERGÉTIQUES
ASSOCIATION QUÉBÉCOISE DE LUTTE CONTRE LA POLLUTION ATMOSPHÉRIQUE
(SÉ-AQLPA)

LISTE DES PIÈCES

A. RAPPORTS DES PREMIERS TÉMOINS DE SÉ-AQLPA (BERNARD SAULNIER, STÉPHANE BÉLAISKY, BRIGITTE BLAIS ET JACQUES FONTAINE)

SÉ-AQLPA-1 Document 1 C-SÉ-AQLPA-0019	Bernard SAULNIER, <i>La capacité des nouveaux équipements de recevoir ultérieurement l'activation de fonctionnalités additionnelles.</i> Rapport initial. Le 28 octobre 2011.
SÉ-AQLPA-1 Document 2 C-SÉ-AQLPA-0028	Bernard SAULNIER, <i>Étude critique du rapport d'Accenture sur le projet LAD d'Hydro-Québec quant aux fonctionnalités de gestion de la demande et à la vision d'ensemble du Projet.</i> Rapport complémentaire. Le 16 mars 2012.
SÉ-AQLPA-2 Document 1 C-SÉ-AQLPA-0020	Stéphane BÉLAISKY, (EXPERTISE ÉLECTROMAGNÉTIQUE ENVIRONNEMENTALE 3E INC.), <i>Évaluation des émissions de radiofréquences de compteurs électriques nouvelle génération Landys+Gyr Gridstream RF ZigBee installés par Hydro-Québec Distribution.</i> Rapport initial. Le 28 octobre 2011.
SÉ-AQLPA-2 Document 2 C-SÉ-AQLPA-0029	Stéphane BÉLAISKY, (EXPERTISE ÉLECTROMAGNÉTIQUE ENVIRONNEMENTALE 3E INC.), <i>Évaluation des émissions de radiofréquences de compteurs électriques nouvelle génération Landys+Gyr Gridstream RF ZigBee installés par Hydro-Québec Distribution.</i> Rapport amendé. Le 16 mars 2012.

SÉ-AQLPA-2 Document 2.1 C-SÉ-AQLPA-0050	Stéphane BÉLAINSKY, (EXPERTISE ÉLECTROMAGNÉTIQUE ENVIRONNEMENTALE 3E INC.), <i>Erratum au rapport amendé C-SÉ-AQLPA-0029, SÉ-AQLPA-2, Doc. 2.</i> Le 4 avril 2012.
SÉ-AQLPA-2 Document 3 C-SÉ-AQLPA-0030	HUNT, <i>Fiches techniques d'exposition aux radiofréquences émises par les compteurs FOCUS AXR-SD de Landis+Gyr (HUNTSU 0864) et RSRX4e de Landis+Gyr (HUNTSU 0825).</i> Pièce jointe au rapport amendé de Stéphane Bélainsky. Déposé le 16 mars 2012.
SÉ-AQLPA-3 Document 1 C-SÉ-AQLPA-0021	Brigitte BLAIS, Jacques FONTAINE, <i>Examen de certaines préoccupations relatives à la demande d'autorisation de la phase 1 du projet Lecture à distance (LAD) d'Hydro-Québec Distribution.</i> Rapport initial. Le 28 octobre 2011. Chapitre 1 – Brigitte BLAIS , La capacité de répondre aux préoccupations quant aux émissions de radiofréquences. Chapitre 2 – Jacques FONTAINE , La capacité de répondre aux préoccupations quant à la protection des données privées. Chapitre 3 – Brigitte BLAIS , La disposition des équipements remplacés.
SÉ-AQLPA-3 Document 2 C-SÉ-AQLPA-0025	Jacques FONTAINE, <i>La capacité de l'infrastructure prévue du projet de répondre aux préoccupations quant à la protection des données privées.</i> Rapport amendé. Le 9 mars 2012.
SÉ-AQLPA-3 Document 2.1 C-SÉ-AQLPA-0051	Jacques FONTAINE, <i>Erratum au rapport amendé C-SÉ-AQLPA-0025, SÉ-AQLPA-3, Doc. 2.</i> Le 4 avril 2012.
SÉ-AQLPA-3 Document 2.2 C-SÉ-AQLPA-0072	Jacques FONTAINE, <i>Erratum à la pièce C-SÉ-AQLPA-0051, SÉ-AQLPA-3, Doc. 2.1.</i> Le 14 mai 2012.

Régie de l'énergie - Dossier R-3770-2011

Autorisation d'investissement - Projet Lecture à distance (LAD) – Phase 1 d'Hydro-Québec Distribution

SÉ-AQLPA-3 Document 3 C-SÉ-AQLPA-0031	Brigitte BLAIS, <i>La capacité du projet Lecture à distance (LAD) d'Hydro-Québec Distribution de répondre aux préoccupations quant aux émissions de radiofréquence.</i> Rapport complémentaire. Le 16 mars 2012.
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B. CURRICULUM VITAE

SÉ-AQLPA-4 Document 1 C-SÉ-AQLPA-0015	Bernard SAULNIER, <i>Curriculum vitae.</i> Déposé le 28 octobre 2011.
SÉ-AQLPA-4 Document 2 C-SÉ-AQLPA-0016	Stéphane BÉLAINSKY, <i>Curriculum vitae.</i> Déposé le 28 octobre 2011.
SÉ-AQLPA-4 Document 3 C-SÉ-AQLPA-0060	David O. CARPENTER, <i>Curriculum vitae.</i> Déposé le 18 avril 2012.

C. PREMIERS DOCUMENTS DE RÉFÉRENCE

SÉ-AQLPA-5 Document 1 C-SÉ-AQLPA-0033	IDAHO POWER, <i>Smart Grid : Modern Ingenuity</i> , 2011 http://internet.regie-energie.qc.ca/Depot/Projets/111/Documents/R-3770-2011-C-S%c3%89-AQLPA-0035-AUDI-PIECE-2012_03_27.pdf Re : Wired Smart Meters. Filed at the hearing on March 27, 2012.
SÉ-AQLPA-5 Document 2 C-SÉ-AQLPA-0034	GOVERNEMENT DU CANADA, INDUSTRIE CANADA, <i>Norme CNR-210 Appareils radio exempts de licence (pour toutes les bandes de fréquences) : matériel de catégorie I (Norme autrefois nommée : Dispositifs de radiocommunication de faible puissance)</i> , 8 ^e édition, Décembre 2010, http://www.ic.gc.ca/eic/site/smt-gst.nsf/vwapi/cnr210-i8.pdf/\$FILE/cnr210-i8.pdf . page d'accès : http://www.ic.gc.ca/eic/site/smt-gst.nsf/fra/sf01320.html Extrait : art. A2.9. http://internet.regie-energie.qc.ca/Depot/Projets/111/Documents/R-3770-2011-C-S%c3%89-AQLPA-0034-AUDI-PIECE-2012_03_27.pdf Déposé à l'audience du 27 mars 2012.
SÉ-AQLPA-5 Document 3 C-SÉ-AQLPA-0035	HYDRO-QUÉBEC, <i>Hydro-Contact</i> , No. 88, Mars-Avril 2012, Extrait. http://internet.regie-energie.qc.ca/Depot/Projets/111/Documents/R-3770-2011-C-S%c3%89-AQLPA-0035-AUDI-PIECE-2012_03_27.pdf Re : Photo d'un employé souriant d'Hydro-Québec dont le visage est presque accoté sur un nouveau compteur. Déposé à l'audience du 27 mars 2012.
SÉ-AQLPA-5 Document 4 C-SÉ-AQLPA-0036	Benedict ARMSTRONG, Gilles THÉRIAULT, Pascal GUÉNET, Jan DEADMAN, Marcel GOLDBERG, Paul HÉROUX, <i>Association between Exposure to Pulsed Electromagnetic Fields and Cancer in Electric Utility Workers in Quebec Canada, and France</i> , <i>Am J Epidemiol</i> 1994; 140:805–20. Abstract http://aje.oxfordjournals.org/content/140/9/805.abstract Filed at the hearing on March 27, 2012 : http://internet.regie-energie.qc.ca/Depot/Projets/111/Documents/R-3770-2011-C-S%c3%89-AQLPA-0036-AUDI-PIECE-2012_03_27.pdf

SÉ-AQLPA-5 Document 5 C-SÉ-AQLPA-0037	David E. McCARTY, Simona CARRUBBA, Andrew L. CHESSON Jr., Clifton FRILOT, Eduardo GONZALEZ-TOLEDO, Andrew A. MARINO, <i>Electromagnetic Hypersensitivity: Evidence for a Novel Neurological Syndrome</i>, International Journal of Neuroscience, 00, 1–7, 2011, http://andrewamarino.com/PDFs/165-IntJNeurosci2011.pdf . This double-blinded study indicated health effect on an electrosensitive subject emanating from the electromagnetic field variation itself (ie. switching RF emissions on and off). Filed at the hearing on March 27, 2012.
SÉ-AQLPA-5 Document 6 C-SÉ-AQLPA-0039	POWERWATCH, 126 page List of scientific studies on the effects on health of radiofrequency emissions distinguishing between studies establishing a correlation and those not establishing a correlation. http://www.powerwatch.org.uk/science/studies.asp#wifi Filed March 30, 2012.
SÉ-AQLPA-5 Document 7 C-SÉ-AQLPA-0040	David O. CARPENTER, M.D., Director, Institute for Health and the Environment, University at Albany and former Dean of the School of Public Health at the University at Albany, Review of scientific literature on the effects on health of radiofrequency emissions, December 20, 2011. http://www.thermoguy.com/pdfs/Amended%20Declaration%20of%20Dr%20David%20Carpenter.pdf Filed March 30, 2012.
SÉ-AQLPA-5 Document 8 C-SÉ-AQLPA-0041	David O. CARPENTER, M.D., Director, Institute for Health and the Environment, University at Albany and former Dean of the School of Public Health at the University at Albany, Two page letter summarizing the state of scientific literature on the effects on health of radiofrequency emissions, 2011. http://www.schoolmoldhelp.org/images/stories/CarpenterfinalCCST.pdf Filed March 30, 2012.

SÉ-AQLPA-5 Document 9 C-SÉ-AQLPA-0042	EMF-PORTAL, <i>Mobile-phone related epidemiological studies</i> (9 page list of epidemiological studies), updated March 28, 2012. http://www.emf-portal.de/overview/mp_epi.php?l=e&explode=3&tab=2#alle Filed March 30, 2012.
SÉ-AQLPA-5 Document 10 C-SÉ-AQLPA-0043	John A. ROBERTSON et als, <i>Low-frequency pulsed electromagnetic field exposure can alter neuroprocessing in humans</i>, <i>Journal of Royal Society Interface</i>, (2010) 7, 467–473 doi:10.1098/rsif.2009.0205. 5 August 2009. http://www.ncbi.nlm.nih.gov/pubmed/19656823 http://rsif.royalsocietypublishing.org/content/7/44/467.full.pdf+html et Filed March 30, 2012.
SÉ-AQLPA-5 Document 11 C-SÉ-AQLPA-0044	Adamantia FRAGOPOULOU et als, <i>Scientific Panel on Electromagnetic Field Health Risks: Consensus Points, Recommendations, and Rationales</i>, Scientific Meeting: Seletun, Norway, November 17-21, 2009 (The Seletun Resolution), Published in <i>Reviews on Environmental Health</i>, Volume 25, No. 4, 2010. http://emfsafetynetwork.org/wp-content/uploads/2011/07/Seletun-Statement-2010.pdf Filed March 30, 2012.
SÉ-AQLPA-5 Document 12 C-SÉ-AQLPA-0045	AMERICAN ACADEMY OF ENVIRONMENTAL MEDECINE (AAEM), <i>American Academy of Environmental Medicine calls for a halt to wireless smart meters</i>, 2012. http://www.es-uk.info/news/20120203-american-academy-view.pdf Filed March 30, 2012.

SÉ-AQLPA-5 Document 13 C-SÉ-AQLPA-0046	Pr. Franz ADLKOFER, European Reflex Program Coordinator, Verum Foundation, Munich (Germany) Pr. Dominique BELPOMME, Université Paris-Descartes, Département d'oncologie médicale, Hôpital Européen Georges Pompidou, Paris (France) Pr. Lennart HARDELL, MD PhD, Department of oncology, University Hospital, Orebro (Sweden) Pr. Olle JOHANSSON, Department of neuroscience, Karolinska Institute, Royal Institute of Technology, Stockholm (Sweden), <u>L'Appel de Paris / The Paris Appeal</u> <i>Déclaration du 23 mars 2009 : Champs électromagnétiques et santé</i> <i>Statement on March 23 2009: Electromagnetic fields on our health</i> http://www.artac.info/fic_bdd/pdf_fr_fichier/declaration23mars2009_12961432440.pdf Filed March 30, 2012.
SÉ-AQLPA-5 Document 14 C-SÉ-AQLPA-0047	Aud DALSEGG, <i>Ancienne Premier Ministre de Norvège, la Directrice Générale de l'OMS, Madame Gro Harlem Brundtland attrape des maux de tête chaque fois qu'elle utilise un téléphone mobile,</i> Dagbladet Norge, Samedi 9 mars 2002 Traduction française publiée à http://www.teslabel.be/archives/gro.htm Déposé le 30 mars 2012. Aud DALSEGG, <i>French translation of Interview with Mrs. Gro Harlem Brundtland on her electrosensitivity,</i> Dagbladet Norge, Samedi 9 mars 2002 http://www.teslabel.be/archives/gro.htm (Note : The English translation was not filed but can be read at : http://www.detect-protect.com/k/evidence/gro_harlem_brundtland.htm

SÉ-AQLPA-5 Document 15 C-SÉ-AQLPA-0048	L. Lloyd MORGAN Elizabeth BARRIS Janet NEWTON Eileen O'CONNOR Alasdair PHILIPS Graham PHILIPS Camilla REES Brian STEIN And 41 endorsers <i>Cellphones and Brain Tumors 15 Reasons for Concern. Science, Spin and the Truth Behind Interphone,</i> August 25, 2009. http://www.em3e.com/pdf/en/truth_behind_interphone_15_reasons_for_concern.pdf and http://www.radiationresearch.org/pdfs/reasons_us.pdf Criticism of the Interphone study design and publication. Filed March 30, 2012.
SÉ-AQLPA-5 Document 15.1 C-SÉ-AQLPA-0073	Erratum to the cover page of Exhibit C-SÉ-AQLPA-0048SÉ-AQLPA-5, Document 15. Filed on May 14, 2012.
SÉ-AQLPA-5 Document 16 C-SÉ-AQLPA-0052	NEXT-UP.ORG, <i>Graph : Average Increase Observed in Urban Area of Artificial RF Microwave Radiation from 900 MHz – 2,5 GHz,</i> 2012, http://internet.regie-energie.qc.ca/Depot/Projets/111/Documents/R-3770-2011-C-S%c3%89-AQLPA-0052-AUDI-PIECE-2012_04_10.pdf Filed at the hearing on April 10, 2012.

SÉ-AQLPA-5 Document 17 C-SÉ-AQLPA-0053	ENFORA, <i>Automatic Meter Reading and the Advanced Metering Infrastructure. Best Practices: Considerations in Wireless Design</i> 2010 Excerpt (page 6) http://internet.regie-energie.qc.ca/Depot/Projets/111/Documents/R-3770-2011-C-S%c3%89-AQLPA-0053-AUDI-PIECE-2012_04_10.pdf . (Note : the complete document was not filed but can be read at : http://www.enfora.com/resource/AMRAMIBestPracticesWhitepaper.pdf). Example of technology showing it is possible to switch-off internal antenna and connect meter to an external antenna. Filed at the hearing on April 10, 2012.
SÉ-AQLPA-5 Document 18 C-SÉ-AQLPA-0054	SIMONS VOSS, Smart Relay : SREL, SREL.ZK, SREL.AKV, June 2006 Excerpt (page 15) : http://internet.regie-energie.qc.ca/Depot/Projets/111/Documents/R-3770-2011-C-S%c3%89-AQLPA-0054-AUDI-PIECE-2012_04_10.pdf (Note : the complete document was not filed but can be read at : http://www.simons-voss.com/fileadmin/media/produkte/english/e__15_Manual_SmartRelay_GB.pdf) Example of technology showing it is possible to switch-off internal antenna and connect meter to an external antenna. Filed at the hearing on April 10, 2012.

D. PORTÉE JURIDIQUE DU CODE DE SÉCURITÉ 6

SÉ-AQLPA-6 Document 1 C-SÉ- AQLPA- 0057, Annexe 1.	SANTÉ CANADA, BUREAU DE LA PROTECTION CONTRE LES RAYONNEMENTS DES PRODUITS CLINIQUES ET DE CONSOMMATION <i>Limites d'exposition humaine à l'énergie électromagnétique radioélectrique dans la gamme de fréquences de 3 kHz à 300 GHz - Code de sécurité 6 (2009), Préambule.</i> http://ocpm.qc.ca/sites/default/files/pdf/P52/5d.pdf obtenable aussi par commande à : http://www.hc-sc.gc.ca/ewh-semt/pubs/radiation/radio_guide-lignes_direct-fra.php . Déposé le 18 avril 2012 : http://internet.regie-energie.qc.ca/Depot/Projets/111/Documents/R-3770-2011-C-S%c3%89-AQLPA-0057-AUDI-AUTRE-2012_04_19.pdf
SÉ-AQLPA-6 Document 2 C-SÉ- AQLPA- 0057, Annexe 2.	INDUSTRIE CANADA Notice de 1^{er} janvier 2008 selon laquelle les circulaires des procédures n'ont aucun statut légal http://www.ic.gc.ca/eic/site/smt-gst.nsf/fra/sf01031.html Extrait de la Circulaire CP-2-0-03 <i>Systèmes d'antennes de radiocommunications et de radiodiffusion</i>, entrée en vigueur le 1^{er} janvier 2008 http://www.ic.gc.ca/eic/site/smt-gst.nsf/vwapj/cpc2003-issue4fr.pdf/\$FILE/cpc2003-issue4fr.pdf. Déposé le 18 avril 2012 : http://internet.regie-energie.qc.ca/Depot/Projets/111/Documents/R-3770-2011-C-S%c3%89-AQLPA-0057-AUDI-AUTRE-2012_04_19.pdf

E. RAPPORT DU DR. CARPENTER ET PIÈCES JOINTES

SÉ-AQLPA-7 Document 1 C-SÉ- AQLPA-0065	David O. CARPENTER <i>The state of scientific research as to whether advanced meters transmitting by radiofrequencies, as proposed in the present case, may constitute a risk of serious or irreversible damage to health.</i> Expert Report. Filed April 30, 2012.
SÉ-AQLPA-7 Document 1.1 C-SÉ- AQLPA-0075	David O. CARPENTER <i>The state of scientific research as to whether advanced meters transmitting by radiofrequencies, as proposed in the present case, may constitute a risk of serious or irreversible damage to health.</i> Expert Report. Revised. Filed May 14, 2012.
SÉ-AQLPA-7 Document 2 C-SÉ- AQLPA-0066	WORLD HEALTH ORGANIZATION (WHO) <i>Precautionary Framework for Public Health Protection</i> Draft (2 May 2003) http://www.who.int/peh-emf/meetings/archive/Precaution_Draft_2May.pdf Filed April 30, 2012.
SÉ-AQLPA-7 Document 3 C-SÉ- AQLPA-0067	WORLD HEALTH ORGANIZATION (WHO) <i>Electromagnetic fields and Public Health. Precautionary Policies Backgrounder</i> March 2000 http://www.who.int/docstore/peh-emf/publications/facts_press/EMF-Precaution.htm Filed April 30, 2012.
SÉ-AQLPA-7 Document 4 C-SÉ- AQLPA-0068	GOVERNMENT OF CANADA <i>A framework for the application of precaution in science-based decision making about risk</i> 2003 http://www.pco-bcp.gc.ca/docs/information/publications/precaution/Precaution-eng.pdf Filed April 30, 2012.

SÉ-AQLPA-7 Document 5 C-SÉ- AQLPA-0076	BIOINITIATIVE WORKING GROUP, <i>BioInitiative Report: A Rationale for a Biologically-based Public Exposure Standard for Electromagnetic Fields (ELF and RF)</i> August 31, 2007. Excerpts : « Preface », « Summary for the Public » and <i>Synthesis of Conclusions</i>. Notes : The full report is available at : http://www.bioinitiative.org/freeaccess/report/docs/report.pdf . A French Synthesis is also available at : http://www.em3e.com/pdf/fr/bioinitiative_vf.pdf. The corresponding peer-reviewed scientific articles are published in <i>Pathophysiology</i> at : http://www.sciencedirect.com/science/journal/09284680/16/2-3 Filed May 14, 2012.
SÉ-AQLPA-7 Document 6 C-SÉ- AQLPA-0077	UNITED STATES OF AMERICA, DEPARTMENT OF HEALTH AND HUMAN SERVICES NATIONAL INSTITUTE OF HEALTH NATIONAL CANCER INSTITUTE PRESIDENT'S CANCER PANEL <i>Reducing Environmental Cancer Risk. What We Can Do Now. 2008–2009 Annual Report.</i> April 2010. Excerpts. http://deainfo.nci.nih.gov/advisory/pcp/annualReports/pcp08-09rpt/PCP_Report_08-09_508.pdf. Filed May 14, 2012.

SÉ-AQLPA-7 Document 7 C-SÉ- AQLPA-0078	A.C. DODE, M. LEAO, F. de A.F. TEJO, A.C.R. GOMES, D.C. DODE, M.C. DODE, C.W. MOREIRA, C.A. CONDESSA, C. ALBINATTI, W.T. CALAFFA <i>Mortality by neoplasia and cellular telephone base stations in the Belo Horizonte municipality, Minas Gerais State, Brazil</i> <i>Sci Total Environ</i> 409: 3649-3665:2011. http://www.sciencedirect.com/science/article/pii/S0048969711005754 http://www.ncbi.nlm.nih.gov/pubmed/21741680?dopt=Abstract This study shows higher rates of cancer (neoplasia) mortality in people living close to cell phone towers than for people living further away. Filed May 14, 2012.
SÉ-AQLPA-7 Document 8 C-SÉ- AQLPA-0079	G. OBERFELD. <i>Environmental Epidemiology Study of Cancer Incidence in the Municipalities of Hausmannstatten & Vasoldsberg (Austria)</i>, 2008. This government-commissioned study found significantly increased cancer risk relative to a lower-exposure reference category, 23x higher for breast cancer and 121x higher for brain tumors, with strong exposure-effect relations. The full 111-page report is available in German at http://www.hese-project.org/hese-uk/en/papers/hausmannstatten2008.pdf . We file a brief English summary of this report published at http://www.hese-project.org/hese-uk/en/niemr/hausmannstatten_summary.pdf . Filed May 14, 2012.
SÉ-AQLPA-7 Document 9 C-SÉ- AQLPA-0080	P. MICHELOZZI, A. CAPON, U. KIRCHMAYER, F. FORASTIERE, A. BIGGERI, A. BARCA and C.A. PERUCCI. Adult and childhood leukemia near a high-power radiostation in Rome, Italy. <i>Am J Epidemiol.</i> 155: 1098-1103: 2002 http://aje.oxfordjournals.org/content/155/12/1096.full.pdf . The authors show that there is a significant elevation of childhood leukemia among residents living near to Vatican Radio, and that the risk declines with distance away from the transmitter (OR 2.2, 1.0-4.1). Filed May 14, 2012.

SÉ-AQLPA-7 Document 10 C-SÉ- AQLPA-0081	M. HA, H. IM, M. LEE, H.J. KIM, B.C. KIM, Y.M. GIMM, J.K. PACK. Radiofrequency radiation exposure from AM radio transmitters and childhood leukemia and brain cancer. Am J Epidemiol 166: 270-279: 2007 http://aje.oxfordjournals.org/content/166/3/270.full.pdf+html . Leukemia and brain cancer in children in Korea were investigated in relation to residence within 2 km of AM radio transmitters. There was a significant elevation in rates of leukemia but not of brain cancer. Filed May 15, 2012.
SÉ-AQLPA-7 Document 11 C-SÉ- AQLPA-0082	S.K. PARK, M. HA, H.J. IM. Ecological study on residences in the vicinity of AM radio broadcasting towers and cancer death: preliminary observations in Korea. Int Arch Occup Environ Health. 2004 Aug;77(6):387-94 http://www.ncbi.nlm.nih.gov/pubmed/15338224 . This study found higher mortality areas for all cancers and leukemia in some age groups in the area near the AM towers. Filed May 15, 2012.
SÉ-AQLPA-7 Document 12 C-SÉ- AQLPA-0083	H. DOLK, G. SHADDICK, P. WALLS, C. GRUNDY, B. THAKRAR, I. KLEINSCHMIDT, P. ELLIOTT. Cancer Incidence near radio and television transmitters in Great Britain. I – Sutton-Colfield transmitter, and II. All high-power transmitters. Am J Epidemiol 1997; 145(1):1-9 and 10-17. Part I : http://aje.oxfordjournals.org/content/145/1/1.full.pdf . Part II: http://aje.oxfordjournals.org/content/145/1/10.full.pdf . In the first study, there was a statistically significant increase in cancer; in the second, a small but significant increase in adult leukemia. Filed May 15, 2012.
SÉ-AQLPA-7 Document 13 C-SÉ- AQLPA-0084	B. HOCKING, I.R. GORDON, H.L. GRAIN, G.E. HARFIELD. Cancer incidence and mortality and proximity to TV towers. Medical J of Australia 1996. 165:601-605. http://www.whale.to/b/hocking5.html and http://www.ncbi.nlm.nih.gov/pubmed/8985435 At extremely low exposure levels, there was an association between increased childhood leukemia incidence and mortality and proximity to TV towers. Filed May 15, 2012.

SÉ-AQLPA-7 Document 14 C-SÉ- AQLPA-0085	J.K. GRAYSON. Radiation exposure, socioeconomic status, and brain tumor risk in the US Air Force: A nested case-control study. Am J Epidemiol 1996; 143:480-6. http://aje.oxfordjournals.org/content/143/5/480.full.pdf This study found an association between exposure to ELF and RF/MW radiation and brain tumors. Filed May 15, 2012.
SÉ-AQLPA-7 Document 15 C-SÉ- AQLPA-0086	S. SZMIGIELSKI. Cancer morbidity in subjects occupationally exposed to high frequency (radiofrequency and microwave) electromagnetic radiation. Sci Total Environ 1996;180:9-17. http://www.sciencedirect.com/science/article/pii/0048969795049150 . This study showed huge increases in leukemia and Non-Hodgkin's lymphomas. Filed May 15, 2012.
SÉ-AQLPA-7 Document 16 C-SÉ- AQLPA-0087	H. EGER, K.U. HSAGEN, B. LUCAS, P. VOGEL, H. VOLT. The influence of being physically near to a cell phone transmission mast on the incidence of cancer. Umwelt-Medizin-Gesellschaft 17, 4; 1-7 : 2004. http://blog.cat/gallery/17983/17983-97698.pdf Over the period 1994-2004 individuals living within 400 meters of a cell phone tower had three times rates of cancer compared to those living further away. Filed May 15, 2012.

SÉ-AQLPA-7 Document 17 C-SÉ- AQLPA-0088	L. HARDELL, N. CARLBERG, F. SEDERQVIST, K.H. MILD. Meta-analysis of long-term mobile phone use and the association with brain tumours. Internat J Oncology 2008 12 : 1097-1103. http://www.mast-victims.org/resources/docs/hardell-meta-analysis-2008.pdf and http://oem.bmj.com/content/64/9/626.full . And related articles by L. HARDELL et als.: Mobile phones, cordless phones and the risk for brain tumours. Intl J. of Oncology 35: 5-17, 2009. http://www.nutrimaxorganic.com/mobile_cancers.pdf Methodological Aspects of Epidemiological Studies on the Use of Mobile Phones and their Association with Brain Tumors. Open Environmental Sciences, 2008, 2, 54-61 54 1876-3251/08 2008 http://www.benthamscience.com/open/toenvirj/articles/V002/54TOENVIRSJ.pdf Mobile telephones and cancer: Is there really no evidence of an association? (Review). Intl. J. Mol Med. 12: 67-72, 2003 http://www.avaate.org/IMG/pdf/Int_J_Mol_Med_2003_12_67.pdf In ten studies of glioma, cell phone use for more than ten year gave an OR of 1.2 (95%CI=0.8-1.9). For ipsilateral cell phone use for more than 10 year the OR = 2.0 (1.2-3.4). There was also a significant relation for acoustic neuroma and ipsilateral cell phone use for ten years or more, but no relation for meningioma. Filed May 15, 2012.
SÉ-AQLPA-7 Document 18 C-SÉ- AQLPA-0089	A.G. LEVIS, N. MINICUCI, P. RICCI, V. GENNARO, S. GABISA. Mobile phones and head tumours. The discrepancies in cause-effect relationships in the epidemiological studies – how do they arise? Environ Health 2011, 10,59. http://www.ehjournal.net/content/10/1/59 and http://www.ncbi.nlm.nih.gov/pubmed/21679472 . When studies that were blinded, free from errors and bias were considered cell phone use for more than ten years resulted in a near doubling in ipsilateral glioma and acoustic neurona. Filed May 15, 2012.
SÉ-AQLPA-7 Document 19 C-SÉ- AQLPA-0090	S.K. MYUNG, W. JU, D.D. McDONNELL, Y.J. LEE, G. KSAZINET, C.T. CHENG, J.M. MOSKOWITZ. Mobile phone use and risk of tumors : A meta-Analysis. J Clin Oncology 10.1200/JCO.2009.21.6366. http://jco.ascopubs.org/content/27/33/5565.full.pdf+html Reviewed 465 publications that reported on 12344 cases of cancer and 25572 controls. Risk of developing brain cancer was OR+1.8 for more than ten years use. Filed May 15, 2012.

SÉ-AQLPA-7 Document 20 C-SÉ- AQLPA-0091	<u>INTERPHONE STUDY GROUP</u> Interpretation of results of Interphone Study Group by WORLD HEALTH ORGANIZATION (WHO), INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC). Carcinogenicity of radiofrequency electromagnetic fields. The Lancet Oncology, Early Online Publication, 22 June 2011. http://www.wirelesswatchblog.org/wp-content/uploads/2011/06/Lancet-June-2011-11.pdf Interpretation of results of Interphone Study Group by BIOINITIATIVE WORKING GROUP. <i>Ten-Year INTERPHONE Cell Phone Study Reports Increased Risk for Brain Cancer Experts call for changes in cell phone design, warnings, ban on use by children.</i> May 18, 2010. http://www.bioinitiative.org/freeaccess/press_release/docs/Interphone.pdf BIOINITIATIVE WORKING GROUP, Public letter to Interphone Study Group requesting data disclosure. December 3, 2008. http://www.bioinitiative.org/freeaccess/documents/final_bio_to_interphone.pdf INTERPHONE STUDY GROUP, Data (two appendix). INTERPHONE STUDY GROUP. <i>Brain tumour risk in relation to mobile telephone use: results of the INTERPHONE international case-control study.</i> International Journal of Epidemiology 2010;39:675–694 doi:10.1093/ije/dyq079 http://ije.oxfordjournals.org/content/39/3/675.full.pdf INTERPHONE STUDY GROUP. <i>Acoustic neuroma risk in relation to mobile telephone use: Results of the INTERPHONE international case-control study.</i> Cancer Epidemiology 35 (2011) 453–464. http://www.sciencedirect.com/science/article/pii/S1877782111000944 Filed May 15, 2012.
SÉ-AQLPA-7 Document 21 C-SÉ- AQLPA-0092	COMAR Synthesis of earlier criticisms of the BioInitiative Report. 2009. http://www.emfandhealth.com/12265_COMAR_2009.pdf Filed May 15, 2012.

SÉ-AQLPA-7 Document 22 C-SÉ- AQLPA-0093	UNITED KINGDOM HEALTH PROTECTION AGENCY'S INDEPENDENT ADVISORY GROUP ON NON-IONISING RADIATION (AGNIR) Health Effects from Radiofrequency Electromagnetic Fields. Report to United Kingdom Health Protection Agency. April 2012. http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1317133827077 Excerpts. Filed May 15, 2012.
SÉ-AQLPA-7 Document 23 C-SÉ- AQLPA-0094	UNITED KINGDOM HEALTH PROTECTION AGENCY <i>HPA Response to the 2012 AGNIR Report on the Health Effects from Radiofrequency Electromagnetic Fields.</i> April 25, 2012. http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb_C/1317133825459 Recommends application of Precautionary Principle and Precautionary Measures. Filed May 15, 2012.
SÉ-AQLPA-7 Document 24 C-SÉ- AQLPA-0095	Anke HUSS, Matthias EGGER, Kerstin HUG, Karin HUWILER-MÜNTENER, Martin RÖÖSLI Source of Funding and Results of Studies of Health Effects of Mobile Phone Use: Systematic Review of Experimental Studies Environmental Health Perspectives Vol.115 No. 1 January 2007 http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1797826/pdf/ehp0115-000001.pdf Conducted a systematic review of studies of controlled exposure to radiofrequency radiation with health-related outcomes (electroencephalogram, cognitive or cardiovascular function, hormone levels, symptoms, and subjective well-being). Concluded that studies funded exclusively by industry were least likely to report a statistically significant result: The odds ratio was 0.11 (95% confidence interval, 0.02–0.78), compared with studies funded by public agencies or charities. This finding was not materially altered in analyses adjusted for the number of outcomes reported, study quality, and other factors. Filed May 15, 2012.

SÉ-AQLPA-7 Document 25 C-SÉ- AQLPA-0096	Don MAISCH (2011). Radiofrequency/Microwave Radiation and the International Agency for Research on Cancer (IARC). The problem of conflict of interest & commercial influence in WHO agencies and the need for public interest representation. http://www.next-up.org/pdf/who_conflict.pdf Filed May 15, 2012.
SÉ-AQLPA-7 Document 26 C-SÉ- AQLPA-0097	<u>ARTICLES MENTIONED IN SECTION 40 OF DR. CARPENTER'S REPORT</u> <u>(NEUROLOGIC, IMMUNE, ENDOCRINE, REPRODUCTIVE AND CARDIAC ADVERSE HEALTH EFFECTS FROM LOW-DOSE, CHRONIC EXPOSURE TO RF/MW RADIATION IN HUMANS)</u> VOLKOW ND, TOMASI D, WANGE GJ, VASKA P, FOWLER JS, TELAND F, ALEXOFF D, LOGAN J AND WONG C. Effects of cell phone radiofrequency signal exposure on brain glucose metabolism. JAMA 305 : 808-814 : 2011. In healthy participants and compared with no exposure, 50-minute cell phone exposure was associated with increased brain glucose metabolism in the region closest to the antenna. This shows direct effects of RF radiation on the brain with cell phone use. PAPAGEORGIU CC, HOUNTALA CD, MAGANIOTI AE, KYPRIANOU MA, RABAVILAS AD, PAPADIMITRIU GN, CAPSALIS CN. Effects of WI-FI signals on the p300 component of event-related potentials during an auditory hayling task. J Integr Neurosci 2011 Jun;10(2):189-202. This study concludes that WI-FI exposure may exert gender-related alterations on neural activity. ALTPETER ES, ROOSLI M ET AL. Effect of Short-wave magnetic fields on sleep quality and melatonin cycle in humans: The Schwarzenburg shut-down study. Bioelectromagnetics 27:142-150, 2006. Sleep quality improved and melatonin excretion increased when the transmitter was shut down. ABELIN T ET AL. Sleep disturbances in the vicinity of the short-wave broadcast transmitter Schwarzenburg. Somnologie 9:203-209, 2005. There is strong evidence of a causal relationship between operation of a short-wave radio transmitter and sleep disturbances in the surrounding population. HUTTER HP ET AL. Subjective symptoms, sleeping problems, and cognitive performance in subjects living near mobile phone base stations. Occup Environ Med 2006;63:307-313, 2006. There was a significant relation of some symptoms, especially headaches, to measured power density, as well as effects on wellbeing and performance.

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	sperm count. BASTE V, RIISE T AND MOEN BE (2008) Int J Epidemiol 23: 369-377: 2008. Radiofrequency electromagnetic fields: male infertility and sex ratio of offspring. This is a study of Norwegian Navy personnel chronically exposed to RF fields on the job. The rates of infertility were related to level of exposure in a dose-dependent fashion. Filed May 15, 2012.
SÉ-AQLPA-7 Document 27 C-SÉ- AQLPA-0098	<u>ARTICLES MENTIONED IN SECTION 41 OF DR. CARPENTER'S REPORT</u> <u>(CELLULAR AND ANIMAL STUDIES ON OF CANCER, GENOTOXICITY, NEUROTOXICITY AND OTHER HEALTH OUTCOMES FROM RF/MW RADIATION)</u> SINHA R. Chronic non-thermal exposure of modulated 2450 MHz microwave radiation alters thyroid hormones and behavior of male rats. Int. J. Radiation Biol. 84:6:505-513, 2008. This study concluded that the radiation was sufficient to alter the levels of thyroid hormone as well as emotional reactivity compared to controls. NITTBY H, GRAFSTROM G, TIAN DP, MALMGREN L, BRUN A, PERSSON BRR, SALFOR LG AND EBERHARDT J. Bioelectromagnetics 29: 219-232: 2008. This study showed cognitive impairment in rats after long-term exposure to PM MW radiation. This is study of rats shows that after 2 hours per week for 55 weeks there was impaired memory for objects in exposed as compared to sham animals. KIMMEL S ET AL. Electromagnetic radiation: Influences on honeybees (<i>Apis mellifera</i>). A significant difference between non-exposed and fully irradiated bees was the result of the influence of high-frequency PM RF/MW radiation. PANAGOPOULOS DJ ET AL. Bioeffects of mobile telephony radiation in relation to its intensity or distance from the antenna. Int. J Radiat Biol, 86;(5):345-357, 2010. The PM MW radiations at 900 and 1800 MHz decreased the reproductive capacity by cell death induction, with an increased bioactivity "window" at 10 $\mu\text{W}/\text{cm}^2$, and still evident down to 1 $\mu\text{W}/\text{cm}^2$. EVERAERT J, BAUWENS D. A possible effect of electromagnetic radiation from mobile phone base stations on the number of breeding house sparrow (<i>passer domesticus</i>). Electromagnetic Biology and Medicine, 26:63-72, 2007. Long-term exposure to higher-level low-intensity PM MW radiation negatively affects the abundance or behavior of House Sparrows in the wild. MAGRAS I, XENOS T. RF Radiation-Induced Changes in the Prenatal

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SÉ-AQLPA-7 Document 28 C-SÉ- AQLPA-0099	<u>ARTICLES MENTIONED IN SECTION 44 OF DR. CARPENTER'S REPORT</u> <u>(MECHANISMS OF INTERACTION BETWEEN RF/MW RADIATION AND BIOLOGIC SYSTEMS AT THE CELLULAR LEVEL)</u> LITOVITZ, T., C. MONTROSE, ET AL. (1994). "Superimposing spatially coherent electromagnetic noise inhibits field induced abnormalities in developing chick embryos." Bioelectromagnetics 15(2): 105-113. DICARLO, A., J. FARRELL, ET AL. (1998). "A simple experiment to study electromagnetic field effects: Protection induced by short term exposures to 60 Hz magnetic fields." Bioelectromagnetics 19(8): 498-500. PENAFIEL, L., T. LITOVITZ, ET AL. (1997). "Role of modulation on the effect of microwaves on ornithine decarboxylase activity in L929 cells." Bioelectromagnetics 18(2): 132-141. DICARLO, A. L., MICHAEL T. HARGIS, L. MIGUEL PENAFIEL, THEODORE A. LITOVITZ, A. (1999). "Short-term magnetic field exposures (60Hz) induce protection against ultraviolet radiation damage." International journal of radiation biology 75(12): 1541-1549. LITOVITZ, T., C. MONTROSE, ET AL. (1990). "Amplitude windows and transiently augmented transcription from exposure to electromagnetic fields." Bioelectromagnetics 11(4): 297-312.

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