

1999 & 2003 Hearing Records

LCG HDTV Broadcast Tower Proposal

Key Testimony Synopsis

Posted here is a synopsis of sworn testimony in opposition to the Lake Cedar Group proposal. The two rounds of Jefferson County (Colorado) Commission hearings were held on an HDTV (digital) broadcast super-tower proposal to be sited on Lookout Mountain just outside Denver. The first round of hearings took place in February through August, 1999. The second round took place in July and August, 2003. Some key testimonies are provided here with the citation to the record. Eighteen physicians opposed the Lookout Mountain super-tower proposal because the broadcast radiation poses significant health risks.

Citations to the 1999 record (incorporated into the 2003 record) are highlighted in blue, and citations to the 2003 record are highlighted in green.

Descriptions of testimony are broken into two categories:

- 1) Sworn testimony of physicians, research scientists, engineers and attorneys on adverse health effects of radiofrequency radiation exposure levels below current FCC human safety limits:
- 2) Sworn Testimony of Real Estate Appraisers, Community Officials and Community Members Regarding Property Devaluation, Real Estate Tax Reduction and Health concerns

1) Sworn testimony of physicians, research scientists, engineers and attorneys on adverse health effects of radiofrequency radiation exposure levels below current FCC human safety limits:

R 6143-50 (1999) Bruce DeBoskey is the attorney who represented the family of Verle Maine, a Lookout Mountain resident who died of non-Hodgkins lymphoma in the early 1990's. The Maine suit was settled out of court. Mr. DeBoskey attacks the independence of the broadcasters' expert witnesses. He also reports on a radiofrequency (RF) interference case he handled for another Lookout Mountain resident.

R 6090-93 (1999) Henry Lai, PhD Research Professor of Bioengineering, University of Washington, Seattle, testified as an expert in RF radiation biological effects research. He reports that RF exposure is a form of stress to animals that causes breaks in DNA, that RF effects are cumulative, and that RF can interact with medications and cause them to be more potent or less potent depending on the medication.

R 11660-61 (2003) John Goldsmith MD, MPH, internationally renowned epidemiologist, entered into the record several of his studies on long-term RF exposure. He describes the

symptoms of radiofrequency sickness syndrome experienced by the US embassy personnel in Moscow who were exposed there between 1953 and 1976. Dr. Goldsmith passed away in 2003.

R 11661-63 (2003) Theodore Litovitz, PhD was Professor Emeritus of Physics, Catholic University of America. His video presentation on adverse biological effects from non-thermal exposure to RF radiation was entered into the record. Dr. Litovitz passed away in 2006. Included is Dr. Litovitz's *curriculum vitae* which lists his published research on biological effects of exposure to electromagnetic fields and his PowerPoint presentation on that subject.

R 6024-30 (1999) Richard Hoffman, MD Since 1998 Dr. Hoffman has been the Chief Medical Officer, Colorado Department of Health and State Epidemiologist. Dr. Hoffman spent five years at the Centers for Disease Control, three of which were at the National Center for Environmental Health. His testimony challenges the conclusions of broadcast experts Cole and Bushberg and reports on the cancer inventory he conducted of Lookout Mountain residents.

R 6045-50 (1999) Paul Polak, MD has been a practicing physician since 1958. His background is in preventive medicine and medical research. Dr. Polak served as Principal Investigator for a three-year Colorado study of preventive medicine. He has served on a grant review committee for national studies on alcoholism. Dr. Polak rebutted directly the broadcaster experts Jules Cohen and Jerrold Bushberg's defense of the IEEE (Institute of Electrical and Electronics Engineers) methods in setting its RF human exposure safety standards.

R 11618-635 (2003) Mark Johnson, MD Jefferson County Health Department, testifies that FCC, NCRP and ANSI/IEEE RF safety levels are based on thermal effects of RF exposure that "assume a linear correlation between exposure and risk which may not always be true. These standards may be based on something that may not be keeping people safe."

R 11711-722 (2003) Stephen Frankel, MD is a graduate of Harvard Medical School, triple board certified in Internal Medicine, Pulmonary Medicine and Critical Care Medicine. He is Assistant Professor of Medicine at National Jewish Research Center and the University of Colorado Health Sciences Center. His specialty is cell biology and cell signal transduction, and he has performed clinical research evaluating therapies for lung disease. His testimony addresses the limitations of scientific studies, prudence and public health policy, and actions to take before all the scientific evidence is in. His testimony includes a PowerPoint presentation.

R 6050-58 (1999) and **R 11729-736** (2003) Cindy Kelly, MD is an orthopedic oncologist. She trained in orthopedic surgery at Harvard UCLA Medical Center in Los Angeles. She completed a fellowship in orthopedic oncology at UCLA in Los Angeles. Dr. Kelly's testimony reviews the body of research on observed biological effects from long-term, low-intensity RF radiation exposure and also RF effects on the inner workings of living cells. Her 2003 testimony includes a PowerPoint presentation.

R 11769-76 (2003) Dr. Joel Bach is a faculty member of Colorado School of Mines division of engineering and Colorado University Health Sciences Center and School of Medicine and a resident of Lookout Mountain. He testifies in opposition to the supertower due to concerns about

health and RF interference with biomedical research. He expects that new scientific tests will be developed to detect harm from RF exposure at levels below what is now considered safe by the FCC.

R 11922-24 (2003) Steve Grabowski, MD, MPH is board certified in public health and preventive medicine. He practices occupational medicine at Boulder Community Hospital. While in the U.S. Navy he practiced occupational medicine and oversaw the Navy's asbestos medical surveillance program in San Diego. His testimony characterizes the HDTV RF exposure in residential areas as "setting up an experiment without the express consent of the experimental subjects." He asserts that the ethical, moral, and responsible decision for the county commission to make is to deny the super-tower proposal.

R 11931-32 (2003) Raweewan Hoontrakoon MD is a pediatrician and allergist who completed a residency at the Mayo Clinic and completed a fellowship in allergies and immunology at the National Jewish Research Center in Denver. Dr. Hoontrakoon was principal investigator on the thimerosal-free vaccination trials dealing with autism causation in children. Dr. Hoontrakoon states that in America risk-benefit analysis for public health allows no risk to innocent children when an alternative is available.

R 11658-59 (2003) Ross Wilkins, MD is an orthopedic oncologist and past-president of the Musculoskeletal Tumor Society. His testimony challenges the assumption of no harm from non-thermal RF exposures.

R 6058-60 (1999) John Witwer, MD is a practicing physician at Lutheran Medical Center serving as chairman of the Department of Radiology, member of the board of directors, and president of the medical staff. Dr. Witwer is also State Representative in the Colorado legislature for the Lookout Mountain community. He urges the county commission to allow no increase in the RF environment on Lookout Mountain.

R 6094-6099 (1999) George Pardos, MD ophthalmologist, addressed his testimony to the 1992 Kues study on increased sensitivity of the primate eye to RF radiation when treated with a common glaucoma medication.

R 6100-08 (1999) John Reif, PhD is Professor and Chairman of the Department of Environmental Health, Colorado State University. He is a former member of the Colorado Board of Health and former President of the Larimer County Board of Health. He has been awarded two grants for studies on the health effects of electromagnetic fields from the Department of Energy and the National Institutes of Health. His testimony addresses his own research on melatonin suppression following exposure to 60 Hertz electromagnetic fields and how it relates to RF radiation exposure research. His testimony includes a PowerPoint presentation.

R 11820-11821 (2003) Jim Maller, PhD professor of pharmacology at Colorado University Medical School and investigator at the Howard Hughes Medical Institute has published

numerous papers on the cell cycle in cancer biology. He testifies in opposition to the super-tower proposal based on his knowledge and research in molecular biology.

R 6270-6274 (1999) Rommel Noufi PhD in physics and chemistry, is a scientist at the National Renewable Energy Laboratory in Golden, CO. He asserts that exposure standards become stricter with time as more is learned about biologic interactions and that there is no acceptable level of risk when it comes to children.

R 6172-76 (1999) Shirley Olinger nuclear engineer, testifies on the differences between Soviet/Russian and US radiation exposure standards and points out that US standards are less protective. She urges a prudent avoidance approach to RF safety.

R 11866-67 (2003) Penny Clarke is an electrobiologist and health physician and Assistant Professor at the University of Colorado working on human trials in the treatment of brain cancer. She calls attention to the exhibit letter submitted by local cancer experts who oppose the new tower. She asserts that the county commission would take the advice and expertise of these experts is seeking cancer treatment, therefore, their advice on preventing harm should also be heeded.

R11868-69 (2003) Murray Wynes, PhD in immunology from Colorado University, lives 7,500 feet away in a direct line from the current towers. His testimony points out that physicians such as Dr. Frankel and Dr. Kelley would not put their reputations on the line in sworn testimony unless there is a valid health concern.

R 11898-99 (2003) Hugh McIsaac, PhD in biology, teaches at the University of Denver lives near Shelton Elementary School. He opposes the tower proposal based on the testimony of members of the medical community pointing to increased health risks.

R6256-57 (1999) Eddie Alianiello is a researcher at Colorado University Medical Center and a Lookout Mountain resident. He presents a sketch of an informal analysis he did of the radiation exposure to the various census blocks in the Department of Health cancer inventory. His conclusion is that Lookout Mountain's cancer rate in that inventory has been underestimated.

R 6176-86 (1999) and **R 11778-84** (2003) Roger Mattson, PhD, former director of the US Environmental Protection Agency's (EPA) non-ionizing radiation standards activities from 1980-81. He also worked on ionizing radiation protection at the US Atomic Energy Commission and the Nuclear Regulatory Commission. His testimony explains how the US federal government currently does not address long-term exposure to RF radiation protection as a public health policy question. In his 2003 testimony he asserts that the county should require applicants to address the health effects of their proposed actions, and his testimony includes a PowerPoint presentation.

R 6251-52 (1999) Donald Patton works for the US EPA's National Enforcement Investigation Center. His testimony supports those who oppose the super-tower proposal.

R 6150-57 (1999) Donald D'Antuno is a Lookout Mountain resident. His testimony addresses the RF interference problems with hearing aids, pacemakers, and electronic wheelchairs in the Lookout Mountain area as well as with businesses, residences and the Colorado School of Mines.

R 6157-67 (1999) and **R 11673-93** (2003) Alfred Hislop, MSEE, is a radiofrequency engineer with thirty years experience in RF and microwaves, including 15 years experience at the Naval Ocean System Center. He reports on the extensive RF measurements he performed throughout the Lookout Mountain neighborhoods and the calculations for the proposed increases if the supertower is constructed there. He testifies on the errors in the measurements recorded by the broadcasters' RF measurement expert. In his own work as an RF engineer, Mr. Hislop has developed equipment that is sending the signal back from deepest space on the probe that is mapping the universe.

R 11893-95 (2003) Ann Felteau is an Electrical Engineer with ten years experience in telecommunications and direct broadcast satellites. She concurs with the testimony of Al Hislop that should the supertower be constructed, the RF levels will decrease in the quadrant with 304 residences and will increase in the other three quadrants where there are 1,936 residences.

R 6077-81 (1999) and **R 11664-67** (2003) Gary Olhoeft, PhD, Professor of Geophysics, Colorado School of Mines, testifies on the extensive RF interference with the academic program at the Schools of Mines and the resulting mitigation costs to the school and concerns about health effects to the student body and faculty. His 2003 testimony concludes with a quotation from *Biological Effects of Electromagnetic Fields: Mechanisms, Modeling, Biological Effects, Therapeutic Effects, International Standards, Exposure Criteria*, Springer Verlag, 2003, first edition, author Peter Stavroulakis with contributions from the U.S. Army, U.S. Air Force, and U.S. Navy and a summary from the World Health Organization:

"There is more than sufficient evidence of chromosome aberration, DNA strand breakage, altered oncogene activity and neoplastic transformations of cells to conclude that EMR across the spectrum from ELF to RF/MW is genotoxic. This is independently confirmed by the established biological mechanism of calcium ion efflux and melatonin reduction. Genotoxic substances cause cancer, reproductive health effects and neurological damage."

R 11802-03 (2003) Yaoguo Li is an associate professor of geophysics at the Colorado School of Mines and a resident of Golden, Co. He testifies that the RF interference problems at the school render their research data unusable which results in a loss of students and of research funding.

R 6081-83 (1999) Bob Crowder, manufacturer of high-tech geophysical equipment for ground water and mineral exploration, testifies as a local businessman experiencing RF interference effects on his ability to conduct his business and on product development. Mr. Crowder moved his business away from Golden.

R 6260-6263 (1999) and **R 11736-42** (2003) Dave Vennitti, electrical engineer, testifies on the potential for serious unintended consequences of increased RF interference with medical equipment and local existing industry.

R 11874-75 (2003) Richard Over, has been a Lookout Mountain resident since 1953 and past president of the Panaroma Estates Homeowners Association. He worked as an audiovisual technician at Denver Community College. He testifies about the tape duplication business he started at his home that failed due to RF interference despite his efforts to mitigate the problem. He reports that seven neighbor families have had cancer.

R 6199-6201 (1999) and **R 11667-73** (2003) Andy Beck is an architect whose 25-year career has been spent designing environmentally sensitive buildings for the National Park Service. He testifies as a Lookout Mountain resident who has survived skin cancer and lymphoma and also as a consultant on compatible environmental architectural design. His 2003 testimony concludes that because of the scale and mass of the supertower proposal it is doubtful that it could meet the criteria of the Central Mountains Community Plan.

R 6167-72 (1999) Les Larsen is a resident of Golden CO who testifies as a professional telecommunications consultant encouraging the county commissioners to look at reasonable economic alternatives such as fiber optic technology.

R 11860-62 (2003) Ella Lyons is a homeowner and a biostatistician who works on research in the health field. She is also a scientific member of two institutional review boards whose purpose is to protect the human research participant from potentially harmful risk. In 1994 before purchasing her home she reviewed the health literature that was available. There was no talk of a supertower proposal at that time. In 2002 she moved to another residence and has not been able to sell her home on Lookout Mountain. She opposes the new tower proposal on health grounds as well as the effects of added noise from new generators on homeowners and the wildlife.

R 6253-54 (1999) Bill Calkin PhD in geological engineering from the Colorado School of Mines, is a Golden CO resident who testifies as a scientist and as a realtor. As a scientist he points out that the US standards for RF radiation exposure are some of the highest in the world while US EPA standards for other environmental exposures are the lowest in the world by 5 to 20 times. As a realtor he states that the towers are unsightly, are frequently not in compliance with zoning regulations and have an adverse effect on property values.

R 6218-21 (1999) and **R 11863-65** (2003) Jim Martin, analog electrical engineer for Lockheed Martin, testifies as president of the Mount Vernon Country Club Metropolitan District in opposition to the supertower proposal because of the increase in RF radiation levels. His 2003 testimony includes a PowerPoint presentation, "Children are at a Higher Risk to Electromagnetic Radiation."

2) Sworn Testimony of Real Estate Appraisers, Community Officials and Community Members Regarding Property Devaluation, Real Estate Tax Reduction and Health concerns

R 6126-30 (1999) and **R 11727-29** (2003) Ronald Selstad, registered real estate appraiser, presents a report of real estate tax records showing potential tax losses to the county. He points out the real estate code of ethics requiring disclosure of anything adverse that may have an

impact on property value. He states: “The caveat among responsible realtors is if in doubt, disclose.”

R 6130-38 (1999) Roger Hutchison, PhD in engineering and economics, submits into the record his **economic impact study** of substantial tax revenue reduction if the supertower is constructed.

R 6140-6143 (1999) Basil Katsaros real estate appraiser since 1971, testifies on the real estate industry’s definitions of ten detrimental conditions.

R 11742 (2003) Wayne Matthai testifies as a resident and as a board member of the Genesee Foundation. He is a retired vice president for Proctor and Gamble’s information technology and worldwide telecommunications. He opposes the supertower as a bad business proposal because it is not the best interest of the county or its natural resources. He states that there needs to be broadcast towers but they need to be out of the living environment.

R 11791-93 (2003) Dave Robinson is a resident and registered electrical engineer for 25 years. He opposes the supertower proposal because the mechanical and electrical systems of the proposed facility are the equivalent of an eight-story office building and on that scale they are incompatible with a residential zone. He points to noise from air-conditioning systems, generators, and the visible exhaust emissions from the numerous generators.

R 11805-06 (2003) John Veghte is a resident and a registered professional petroleum engineer. He opposes the supertower proposal and points out that the proposed 20,000 gallon fuel storage tank is a leakage hazard because of its proximity to the local aquifer and the characteristics of the rock there.

R 11926-29 (2003) Mario Pasquale is a resident and is the director of treasury and planning for a manufacturing company in Denver. He opposes the supertower proposal because it is a non-conforming use for a residential zone. He points to the overwhelming involvement of the Lookout Mountain community in opposition to the tower proposal. He also notes that his dog recently died of a rare form of leukemia.

R 11763-65 (2003) Dave Ketchum testifies as Mayor Pro-Tem of the City of Golden to present the Golden City Council resolution opposing the supertower proposal based on RF interference and health considerations.

R 11765-66 (2003) Mike Bestor Golden CO City Manager testifies that the Golden City Council unanimously passed the resolution to oppose the supertower proposal.

R 6062-65 (1999) and **R 11902-05** (2003) Bryan Starling testifies in 1999 as a City Councilor for the City of Golden, Colorado. He reads into the record the city’s January 28, 1999 resolution opposing the tower proposal and calling for an independent study of RF interference in the community. In his 2003 testimony he speaks as a biomedical researcher and president of a business. He recounts his knowledge of the practice of large corporations to wear down the opposition by repeated legal and political maneuvering. He has worked for Clemson University,

Tulane University, 3-M Orthopedics, Coors Biomedical, Imperial Chemical Industries, British Petroleum and Electronic Pacemakers Cadbio Technology.

R 6234-41 (1999) and **R 11941-42** (2003) Jan Wilkins testifies in 1999 on behalf of Canyon Area Residents for the Environment and summarizes the community opposition to the supertower proposal. She states that the majority of the residents of Lookout Mountain are unwilling to be guinea pigs and that as a limited liability corporation, Lake Cedar Group will not carry the expense of harm to the community. Her 2003 testimony addresses her involvement in writing the Central Mountains Community Plan adopted in 1995. She states that the supertower proposal would be out of compliance with that planning document.

R 6277-80 (1999) and **R 11881-83** (2003) Margot Zallen testifies as Chairperson of Plan JeffCo in opposition to the supertower proposal. She asserts that the proposal does not meet the Front Range Backdrop Project's goals of scenic preservation, land form preservation, trail purposes, wildlife habitat, and natural resources preservation.

R 11767-68 (2003) John Litz testifies as Vice Chairperson of Plan JeffCo in opposition to the supertower proposal. He points to the community votes in 1972, 1980, and 1998 which affirmed the goal of protecting open spaces and devoted tax money to that purpose.

R 6225-31 (1999) Kevin Groeneweg testifies as president of the Paradise Hills Homeowners Association. He has been a senior officer of several large investment advisor companies including the Janus Funds. He specializes in telecommunications projects. He testifies to point out the erroneous broadcaster testimony that asserted there are no alternate sites or other technologies to provide HDTV. He points out the already high levels of RF in the Lookout Mountain area and opposes taking an additional unnecessary risks.

R 11785-88 (2003) Brent Anderson testifies as director of the Stonebridge/Eagle Ridge Homeowners Association representing 232 residences. He opposes the supertower proposal out of concern for children's health and property devaluation.

R 11723-25 (2003) Scott Coors testifies as representative for Panorama Estates Homeowners Association who oppose the supertower proposal because of the unknown health risk of long-term RF radiation exposure, RF interference with home electronics, property devaluation and aesthetics.

R 6217-18 (1999) Colin Barton testifies as the vice president of the Genesee Foundation Board of Directors in opposition to the supertower proposal because it allows a growth in visual and electromagnetic radiation pollution.

R 6221-22 (1999) Jean Whidman testifies as president of the Panorama Estates Homeowners Association. They believe that Jefferson County has an obligation to act as responsible custodians of the unique visual resource of the face of the Rocky Mountain uplift.

R 11776-77 (2003) Charles Cuchiara represents the Tripp Ranch Homeowners Association that opposes the supertower proposal. They assert that the health and well being of the constituent

voters must take precedent over the special big money commercial interests that have proposed the supertower.

R 6060-61 (1999) Jon DeStefano testifies as President of the Jefferson County Board of Education. He asserts that unless there is conclusive proof of no harm to the well being of the area school children from increased RF exposure from the supertower, an alternative site should be found.

R 6083-85 (1999) Maria Fulinwider testifies as President of Ralston Elementary School PTA in opposition to the supertower proposal to protect the health of the area schoolchildren.

R 6085-87 (1999) Karen Barker testifies as a former television news broadcaster and parent of school children. She reports on a survey of parents of Ralston School students concerning enrollment of their children should the proposed HDTV supertower be constructed.

R 6088-6090 (1999) Roberta Bolton (1999) testified as a parent and President of Shelton Elementary PTA in opposition to the supertower proposal.

R 11693-95 (2003) Sister Bernadette Casciano is a resident from the Mother Cabrini Shrine. She lists the interference problems experienced at that historic site with its gates and garage doors as well as for visitors' car doors, motorized wheelchairs, and health devices. The Shrine hosts 150,000 visitors each year at the museum and for retreats.

R 6276-77 (1999) Gary Redish testifies as the executive pastor at Lookout Mountain Community Church. He describes the RF interference problems with the church sound system and the expense of mitigation measures for the new church which is under construction. He voices concern about the number of families in the congregation who are considering moving if the supertower is built.

R 11883-85 (2003) Sonia Carney is a former resident of Lookout Mountain who is a graduate student in cancer research. She points out that nothing is absolute in science and that in a research study, no result does not equal a negative result. No proof doesn't mean that something is not going to happen. She opposes the supertower proposal until the results of the Colorado State University study are known.

R 11872-74 (2003) Alfred Cooper is a resident who points out companies and universities who have implemented more stringent RF exposure protection standards than those from the FCC. He urges the county commission to err on the side of caution.

R11938-39 (2003) Sandy Barrett is a resident who testifies about birth defects her son has suffered and other birth defects and miscarriages in her neighborhood.

R 11870-71 (2003) Priscilla Bates is a 38-year resident of Lookout Mountain. She reports her husband's death from throat cancer and also the number of dogs who have developed non-Hodgkins lymphoma. She asks the county commission to put the welfare and health of its constituents before the interests of a private company.

R 11940 (2003) Phil Hardy is a resident who points out the 97% opposition to the tower among the Lookout Mountain residents. Because his wife recently suffered a miscarriage, they are thinking that they should move but worry about taking a big loss on their home.

R 11809-12 (2003) Wendy Hesse is a resident whose son was born with two birth defects. In her testimony she notes the occurrences of tumors, miscarriages, infertility and birth defects in her neighborhood and questions if they are all just coincidences.

R 11819-20 (2003) Paul Kopper is a resident who reports the brain tumors suffered by his wife and his son. He opposes the supertower proposal because as a limited liability corporation, the broadcaster consortium cannot be held financially responsible for its actions.

R 6274-75 (1999) Susan Marcus is a resident who testifies about her husband's leukemia as well as her neighbors' cancers who also live in direct line with one of the existing broadcast towers. One neighbor's dog was treated for lymphoma.

R 6281-83 (1999) Barry Rosenberg is a resident who has lost one child to a rare disease. He asks the county commission to protect the health of its citizens and to remember that nothing is as important in life as one's health.

R 11725-27 (2003) Craig Brown is a resident who testifies about the visual impact of the supertower proposal. In a close examination of the permit application he points out the significant net increase in face area of the tower and supporting structures. Therefore, the proposal does not comply with the Central Mountains Community Plan.

R 11907-07 (2003) Carlo Kopf is a resident whose testimony points to the language of the goal of the Central Mountains Community Plan which is "to protect life, property and the environment from adverse impacts of natural and man-made hazards." He urges the county commission not to trade off potential health risks for television viewing.

R 6258-60 (1999) and **R 11871-72** (2003) Eugenie Roscoe is a resident of Lookout Mountain since 1969. She points out that the broadcasters' technical problems are theirs to solve and are not in the job description of a county commissioner. The responsibility of the elected commissioners is to protect the health, welfare and property rights of the citizens who elected them.

R 11879-81 (2003) Marston Shelton is a resident who speaks for himself and on behalf of his parents who are 50-year residents of Lookout Mountain. The elementary school that is located closest to the tower site is named in honor of them. They ask the county commission to deny the supertower proposal so that the school which bears their name will not have the dubious distinction of being one of the most environmentally dangerous schools in Colorado.

R 11980 (2003) Brian Smith is a resident who testifies about the expense of mitigating the RF exposure to his home and reports that their dog acquired lymphoma at an early age.

R 6254-56 (1999) Lee Todd is a resident who testifies about the expense of trying to shield their computer, television and stereo from RF interference. She reports that after 27 ½ years of living

at this location her husband died of brain cancer. Their home is in a direct line with the existing broadcast towers.