



Control Number: 41606



Item Number: 673

Addendum StartPage: 0

## Comments in Docket No. 41606

If you want to be a PROTESTOR only, please complete this form. Although public comments are not treated as evidence, they help inform the PUC and its staff of the public concerns and identify issues to be explored. The PUC welcomes such participation in its proceedings.

Mail this completed form and 10 copies to:

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First Name: JAMES MC MAHAN Last Name: MC MAHAN

Phone Number: 815 975 7862 Fax Number: \_\_\_\_\_

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I am NOT requesting to intervene in this proceeding. As a PROTESTOR, I understand the following:

- I am NOT a party to this case;
- My comments are not considered evidence in this case; and
- I have no further obligation to participate in the proceeding.

Please check one of the following:

- ☒ I own property with a habitable structure located near one or more of the utility's proposed routes for a transmission line.
- ☐ One or more of the utility's proposed routes would cross my property.
- ☐ Other. Please describe and provide comments. You may attach a separate page, if necessary. \_\_\_\_\_

HEALTH CONCERNS FROM MAGNETIC  
FIELDS AND RF INTERFERENCE. REFER  
TO ATTACHED SHEETS 1-4. I HAVE WORKED  
AROUND 345 KV LINES IN POWER PLANTS  
AND LOST MANY FRIENDS TO CANCER RESULTING  
IN CLASS ACTION LAWSUITS

Signature of person submitting comments:

James Mc Mahan

Date: 8-5-13

For human beings the limit for undisturbed field is 15 kV/m, R.M.S., to experience possible shock. When designing a transmission lines this limit is not crossed, in addition to this proper care has been taken in order to keep minimum clearance between transmission lines.

According to research and publications put out by the World Health Organization(WHO), EMF such as those from power lines, can also cause:

## Short term Health Problem

1. Headaches
2. Fatigue
3. Anxiety
4. Insomnia
5. Prickling and/or burning skin
6. Rashes
7. Muscle pain

## Long term Health Problem

Following serious health Problems may be arise due to EMF effects on human Body.

### (1) Risk of damaging DNA

Our body acts like an energy wave broadcaster and receiver, incorporating and responding to EMFs. In fact, scientific research has demonstrated that every cell in your body may have its own EMF, helping to regulate important functions and keep you healthy.

Strong, artificial EMFs like those from power lines can scramble and interfere with your body's natural EMF, harming everything from your sleep cycles and stress levels to your immune response and DNA!

### (2) Risk of Cancer

After hundreds of international studies, the evidence linking EMFs to cancers and other health problems is loud and clear. High Voltage power lines are the most obvious and dangerous culprits, but the same EMFs exist in gradually decreasing levels all along the grid, from substations to transformers to homes.

### (3) Risk of Leukemia

Researchers found that children living within 650 feet of power lines had a 70% greater risk for leukemia than children living 2,000 feet away or more.(As per British Medical Journal, June, 2005).

### (4) Risk of Neuro degenerative disease

"Several studies have identified occupational exposure to extremely low-frequency electromagnetic fields (EMF) as a potential risk factor for neuro degenerative disease."(As per Epidemiology, 2003 Jul; 14(4):413-9).

## 2) EMF Effects on Animals

Many researchers are studying the effect of Electrostatic field on animals. In order to do so they keep the cages of animals under high Electrostatic field of about 30 kV/m.

The results of these Experiments are shocking as animals (are kept below high Electrostatic field their body acquires a charge & when they try to drink water, a spark usually jumps from their nose to the grounded Pipe) like hens are unable to pick up grain because of chattering of their beaks which also affects their growth.

## 3) EMF Effects on Plant Life

Most of the areas in agricultural and forest lands where high power transmission lines pass. The voltage level of high power transmission Lines are 400KV, 230KV, 110KV, 66KV etc. The electromagnetic field from high power transmission lines affects the growth of plants.

Gradually increases or decreases and reaches to maximum current or minimum current and thereafter it starts to fall down to lowest current or raises to maximum current or a constant current. Again the current, it evinces with little fluctuations till the next day morning.

Current in Power transmission lines varies according to Load (it depending upon the amount of electricity consumed by the consumers). Hence the effect of EMF (due to current flowing in the power lines) upon the growth of plants under the high power transmission lines remains unaltered throughout the year.

From various practically study it was found that the response of the crop to EMF from 110 KV and 230 KV Power lines showed variations among themselves. Based on the results the growth characteristics like shoot length, root length, leaf area, leaf fresh weight, specific leaf weight, shoot/root ratio, total biomass content and total water content of the four crop plants were reduced significantly over the control plants.

Similar trend were observed in the biochemical characteristics like chlorophyll. Reduced growth and physiological parameter was primarily due to the effect of reduced cell division and cell enlargement. Further the growth was stunted which may be due to poor action of hormones responsible for cell division and cell enlargement.

The bio-chemical changes produced in this plant due to EMF stress quite obvious and it affects the production leading to economic loss. It is concluded that the reduced growth parameter shown in the crop plants would indicate that the EMF has exerted a stress on that plants and this EMF stress was quite obvious and it affects the production leading to economic loss. So further research activities are needed to save guard plants from EMF stress.

## 4) EMF Effects on Vehicles parked near Line

When a vehicle is parked under high voltage transmission line an electrostatic field is developed in it. When a person who is grounded touches it a discharge current flows through the human being. In order to avoid this parking lots are located below the transmission lines the recommended clearance is 17 m for 345 kV and 20 m for 400 kV lines.

## (5) Risk of Miscarriage

There is "strong prospective evidence that prenatal maximum magnetic field exposure above a certain level (possibly around 16 mG) may be associated with miscarriage risk." (As per Epidemiology, 2002 Jan; 13(1):9-20)