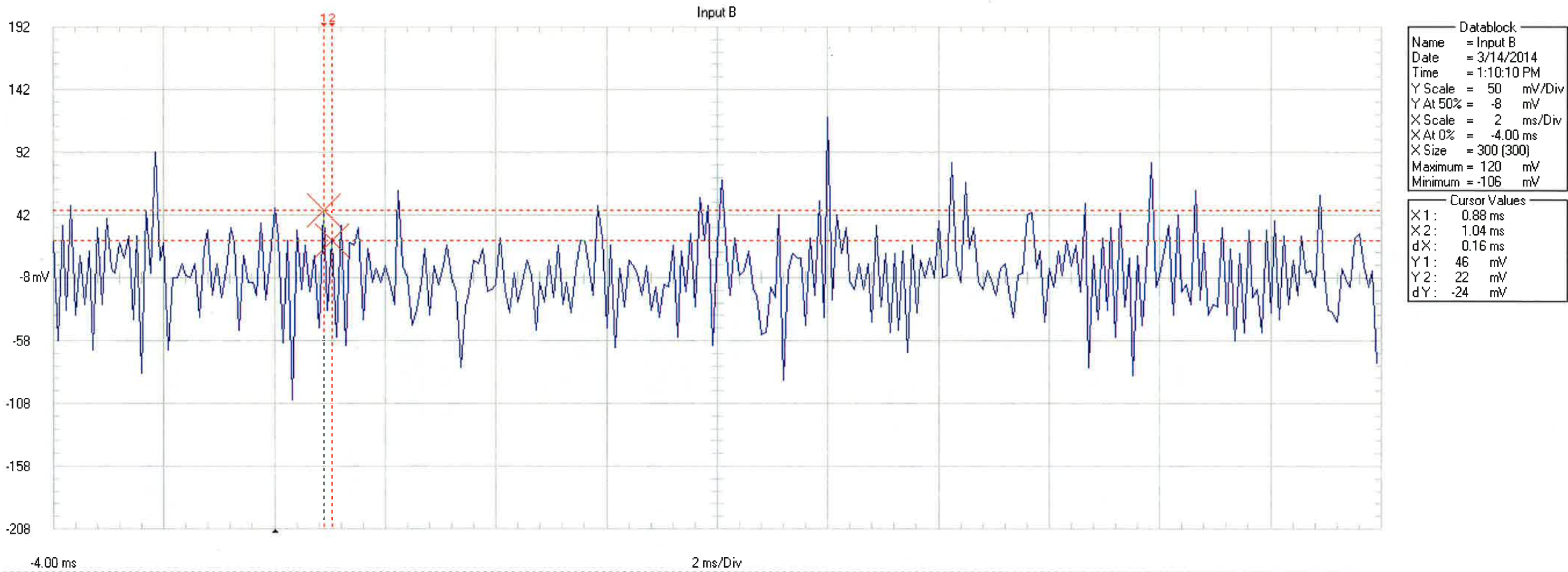


Hingtgen, Robert J

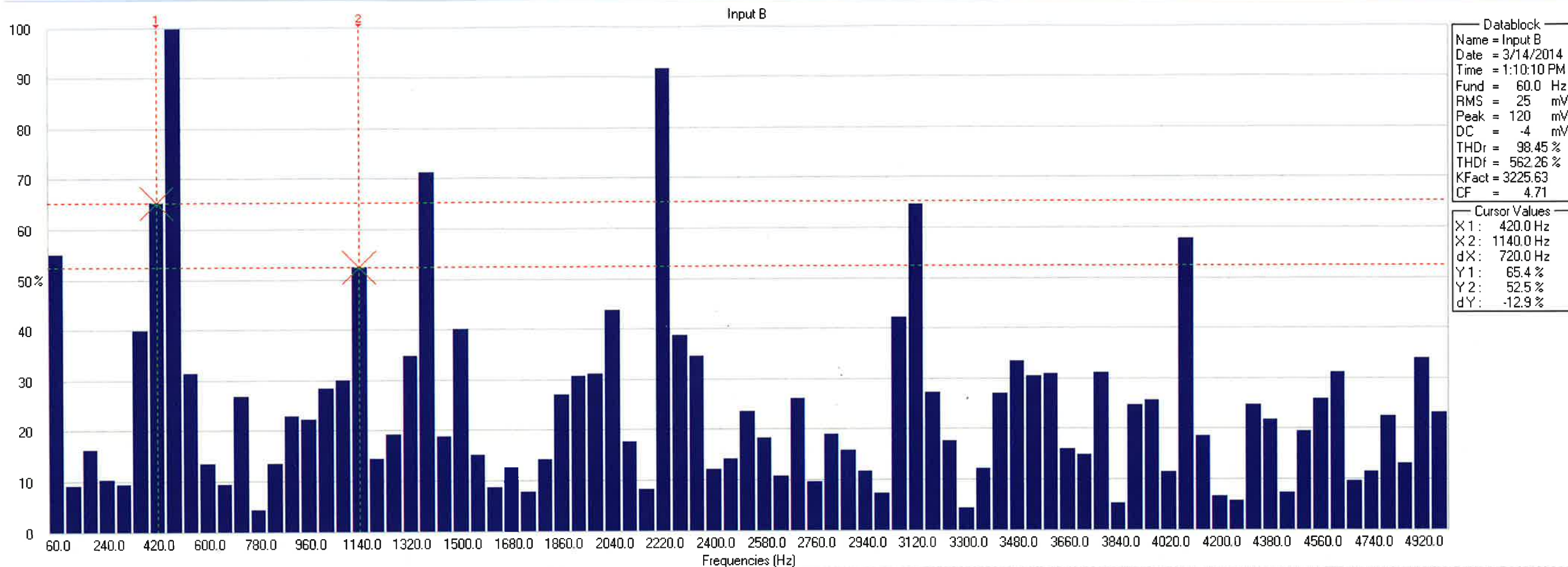
From: Sam Milham <smilham@dc.rr.com>
Sent: Friday, March 14, 2014 8:16 PM
To: Hingtgen, Robert J
Cc: 'Donna Tisdale'
Subject: FW: PDS2012-3910-120005, Soitec Solar Development Draft PEIR -- Extension of Public Review Period to March 3, 2014
Attachments: The Dark Side of Green Energy 1.docx

Dear Mr, Hingtgen,

It was good to see you at the Soitec site today. I had been there a couple of times previously, and never saw the arrays lined up before. The out of service ones were horizontal and numbered about 20 at my other visits. None were horizontal today. The arrays were not at right angles to the sun, and the magnetic field readings at the main power outlet were about half of what they were at the same time of day in January. The magnetic fields are proportionate to amperage, so there was less current being sent to the grid today. The oscilloscope tracings at the main power outlet were different in that they fluctuated in voltage, showed no 60 Hz sine wave, and were full of high frequency voltage transients. The Harmonic spectrum showed much higher distortion than the one I took in January. (98% total harmonic distortion today vs 13 % in January). The wave form and spectrum follow. Only 60 Hz should be present in the spectrum. The January report and tracings are attached for comparison. I conclude that the arrays were lined up for your benefit. The current output was much lower and dirtier today than before. Best, Sam Milham MD



Soitec solar Newberry Springs air at power pole high amplitude



Soitec solar Newberry Springs spectrum at power pole

From: Sam Milham [mailto:smilham@dc.rr.com]

Sent: Thursday, February 13, 2014 2:21 PM

To: 'Hingtgen, Robert J'

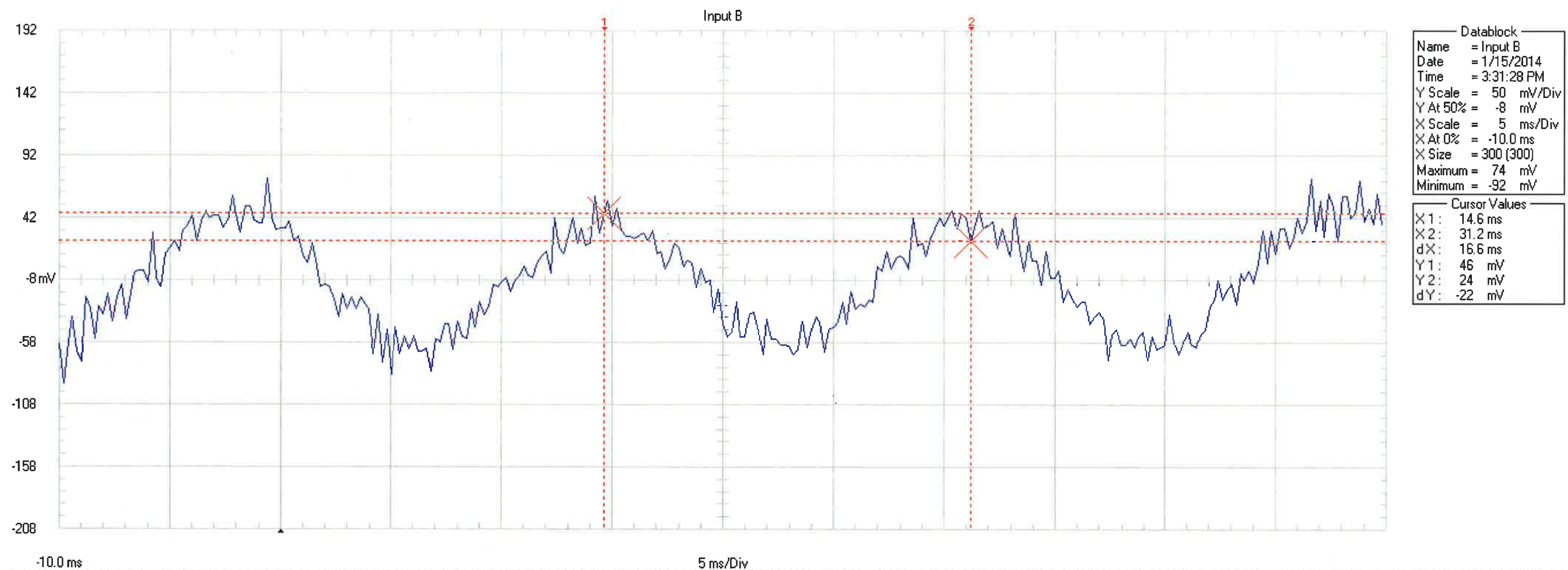
Subject: RE: PDS2012-3910-120005, Soitec Solar Development Draft PEIR -- Extension of Public Review Period to March 3, 2014

Dear Mr. Hingtgen,

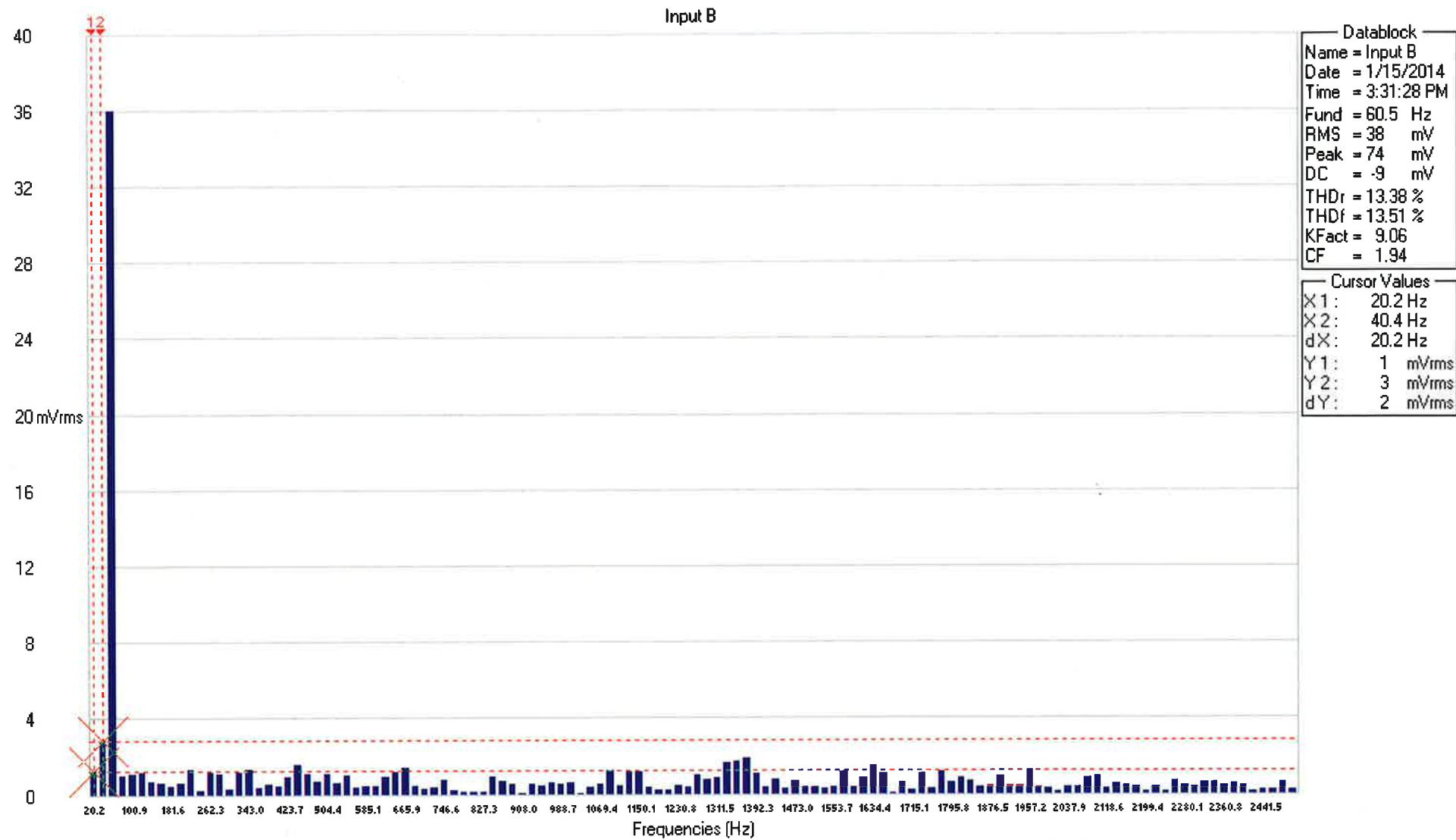
I'm a physician/epidemiologist resident in Indio in the winter. I've measured a number of homes and businesses in southern California with photo voltaic systems. I have also been able to measure an inverter and the switchgear room at a 23 megawatt photovoltaic solar generating plant. All are seriously polluted with dirty electricity. In a typical house with roof top solar collectors, during the day the dirty electricity in the wiring will measure 600 dirty electricity units or above. When the inverter is turned off, the dirty electricity measures less than 50 units. The inverters which change the generated DC to AC seem to be the problem [See Attachment](#)

The four new concentrating solar facilities Soitec is planning, are clones of their Newberry Springs plant, which I studied in January 2014. It makes a lot of dirty electricity with high harmonic distortion and a high K factor (a measure of harmonic distortion). The new Desert Sunrise solar plant at Desert Center is even worse in terms of harmonic distortion, distorted sine waves and high K factor.

I'll be in the desert until the end of April. My phone here is 760 775-5878. best, Sam Milham MD



Soitec Solar Newberry Springs CA Waveform in air at power outlet pole



SOITEC solar Newberry Springs air

From: Hingtgen, Robert J [mailto:Robert.Hingtgen@sdcounty.ca.gov]

Sent: Tuesday, February 11, 2014 3:38 PM

To: Patrick Brown; Megan Lawson (mlawson@dudek.com); Asha Bleier (ableier@dudek.com)

Cc: Fogg, Mindy; Gungle, Ashley; Beddow, Donna; Real, Sami; Bennett, Jim; Sinsay, Edwin M

Subject: PDS2012-3910-120005, Soitec Solar Development Draft PEIR -- Extension of Public Review Period to March 3, 2014

Everyone,

This email is also being sent to many email addresses on blind carbon copy. Many of you will also receive a hard copy of the following notice in the mail.

The notice is also anticipated to be published in the Union Tribune on either Wednesday or Thursday this week.

Thank you,

Robert Hingtgen, Planner III
Planning & Development Services
5510 Overland Ave., Suite 310
San Diego, CA 92123
M.S. O-650
Tel - (858) 694-3712
email - robert.hingtgen@sdcounty.ca.gov

SOITEC SOLAR DEVELOPMENT PROGRAM ENVIRONMENTAL IMPACT REPORT EXTENDED PUBLIC COMMENT PERIOD, LOG NO. PDS2012-3910-120005 (ER); 3800-12-010 (GPA); TIERRA DEL SOL, 3300-12-010 (MUP); 3600-12-005 (REZ); 3921-77-046-01 (AP); RUGGED SOLAR, 3300-12-007 (MUP); SCH NO. 2012121018.

On January 2, 2014 a Notice of Availability was issued for the Draft Program Environmental Impact Report (Draft PEIR) for the proposed Soitec Solar Development Project that set a 45-day public comment period that was to end on February 17, 2014. The County is extending the public comment period for the Draft PEIR by 14 days. Comments on the Draft PEIR will now be accepted through Monday, **March 3, 2014 until 4:00 P.M.** The Draft PEIR will continue to be available for review on the County's website at http://www.sdcounty.ca.gov/pds/ceqa_public_review.html, and at the Campo-Morena Village Library and Jacumba Library, located at 31356 Highway 94, Campo, CA 91906, and 44605 Old Hwy. 80, Jacumba, CA 91934, respectively. For additional information, please contact Robert Hingtgen at (858) 694-3712 or by e-mail at Robert.Hingtgen@sdcounty.ca.gov.



This email is free from viruses and malware because [avast! Antivirus](#) protection is active.

The Dark Side of Green Energy Sept. 2013

RECEIVED
MAR 14 2014
Planning and
Development Services

By Sam Milham MD, MPH 360 866-0256 760 775-5878 (winter) smilham@dc.rr.com

Years ago when photovoltaic solar and wind turbines came on the scene, I thought, as did many others, that this would be the salvation of the planet, and the fossil fuel, green house gas, planet warming scenario, was on its way to being solved. As I have worked with and studied the so called renewable energies, I believe that we have opened a Pandora's box of unimaginable problems, including a severe threat to human health.

I have spent winters in Indio CA since 2004, retiring in 1992 from a Washington State Department of Health job as a medical epidemiologist. Beginning in the 1980s I showed that working in jobs with an intuitive exposure to electricity, was associated with increased cancer mortality. The prevailing wisdom then was that the culprit was exposure to power-frequency (60 Hz) magnetic fields. The move to Indio was serendipitous, in that soon after arrival, helping teachers at La Quinta Middle school study a perceived cancer cluster in their group, lead to the finding that high frequency voltage transients and harmonics, called dirty electricity by the utilities, was the active etiologic agent, not the magnetic fields. I followed this study by examining Vista del Monte elementary school in N Palm Springs, again at the request of the teachers. They too reported a cancer cluster in their school and problems with hyperactive students. Again, dirty electricity was identified as being the problem. A cell tower on campus was the source of the dirty electricity. The problem arises when the grid alternating current (AC) is converted to direct current (DC) to charge backup batteries and to power the cell tower transmitter. The device which changes the AC to DC is an inverter which interrupts current flow and creates dirty electricity which flows back into the electric grid. Photovoltaic solar generates DC which is changed to AC by a grid intertie inverter, which generates dirty electricity which again flows back into the grid. Wind turbines are a little more complicated in that the newer ones generate variable frequency current which is changed to DC and then to AC. Again, the DC to AC conversion is done by a grid intertie inverter which generates

high frequency voltage transients and harmonics. Interestingly, a web search of solar inverters admitted that they all cause AM radio interference. This is an admission that they all generate dirty electricity.

The equipment I use to study wind and solar facilities is fairly simple. I use a 2 channel Fluke oscilloscope with probes connected to an outlet plug to look at the 60 Hz wave form and a high pass line filter to examine the dirty electricity or electrical pollution riding along on the 60 Hz sine wave. I can attach a collapsible antenna to the scope to measure the dirty electricity in the air. It is easy to show that the dirty electricity in the wires radiates into the air and capacitively couples to the human body. I have a plug-in Microsurge meter sold by Stetzer Electric which measures the rate of change of the high frequency voltage transients in the outlet electricity, giving a numerical measure of dirty electricity in the wires. I carry 40 feet of wire to connect to two screw drivers for ground probes to measure the electricity flowing in the earth. Finally, I have a Radio Shack AM portable radio. Tuned off station, it is a sensitive detector of dirty electricity.

When the grid was built, all the electricity delivered to your house returned to the utility substation in the neutral return wires on the power poles. As new electronic equipment (like computers) moved into our homes, most had switching power supplies which made high frequency dirty electricity which doesn't travel as easily in wires as the low frequency utility 60 Hz AC. House and building fires resulted in changing the building codes to require thicker neutral return wires. Instead of beefing up the return wires on the poles, the utilities now dump about 80% of return currents into the earth for return to the substation. There still are California PUC rules stating that the earth shall not be used as a primary neutral return.

If you look up at a pole-mounted transformer, the center of the three terminals on the side has a wire running down the pole connected to a grounding rod. The ground in your house outlet is connected to the ground in your breaker box, to the utility neutral return wire and to the earth. This means that dirty electricity gets into your body by contact with the earth or from the dirty

electricity that gets into your house through the ground rod, wires or conductive pipes. Your neighbor's dirty electricity can make you just as sick as your own.

Dirty electricity was identified by Prof. Martin Graham and Dave Stetzer while studying "stray voltage" in the earth and its effect on dairy cattle. Their work shows that as little as 10 mV peak to peak of dirty electricity effects cow milk production and health.

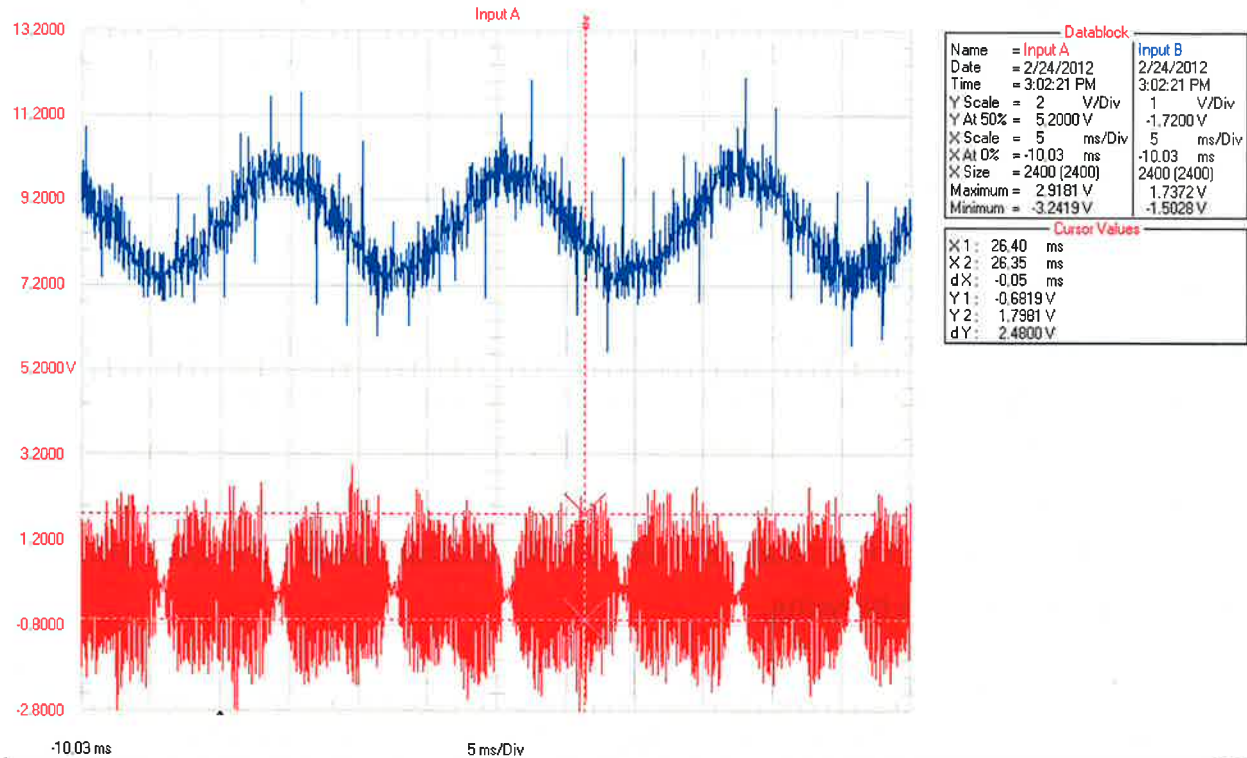
As I drove around the Coachella California valley towns listening to an AM radio station, I noted serious interference driving through the I-10 wind farm and along 50th street in La Quinta between Jefferson Street and Washington. This is where the La Quinta Middle school is located. I measured the dirty electricity in the air and in 40 feet of wire between two screw drivers stuck into the sand near the substation fence at the I- 10 wind farm. I've measured two other wind farms in San Diego county California. One is at Ocotillo, and the other is the Campo wind farm near Boulevard on interstate 8. I visited the Ocotillo wind farm on a still day, so I'll go back when it's blowing,

The Campo turbines are adjacent to the Manzanita reservation which I studied. The entire reservation is heavily polluted with dirty electricity in the air in the ground and in the wiring. Many of the residents are ill. Wind turbine blades also generate low frequency sound which makes people ill. Dr. Nina Pierpont has written a book about it called "Wind Turbine Syndrome".

Dave Stetzer in Wisconsin and Dave Colling in Ontario Canada, have done a lot of work with dairy farmers whose cows get sick because of wind turbines or solar collectors many miles away, injecting enough dirty electricity into the grid and the earth to make cows sick. I have personally interviewed a woman whose family was forced to leave their Canadian home to escape illnesses caused by wind turbines.

I've measured a number of homes and businesses in southern California with photo voltaic systems. I have also been able to measure an inverter and the switchgear room at a 23 megawatt photovoltaic solar generating plant. All are seriously polluted with dirty electricity. In a typical house with roof top solar

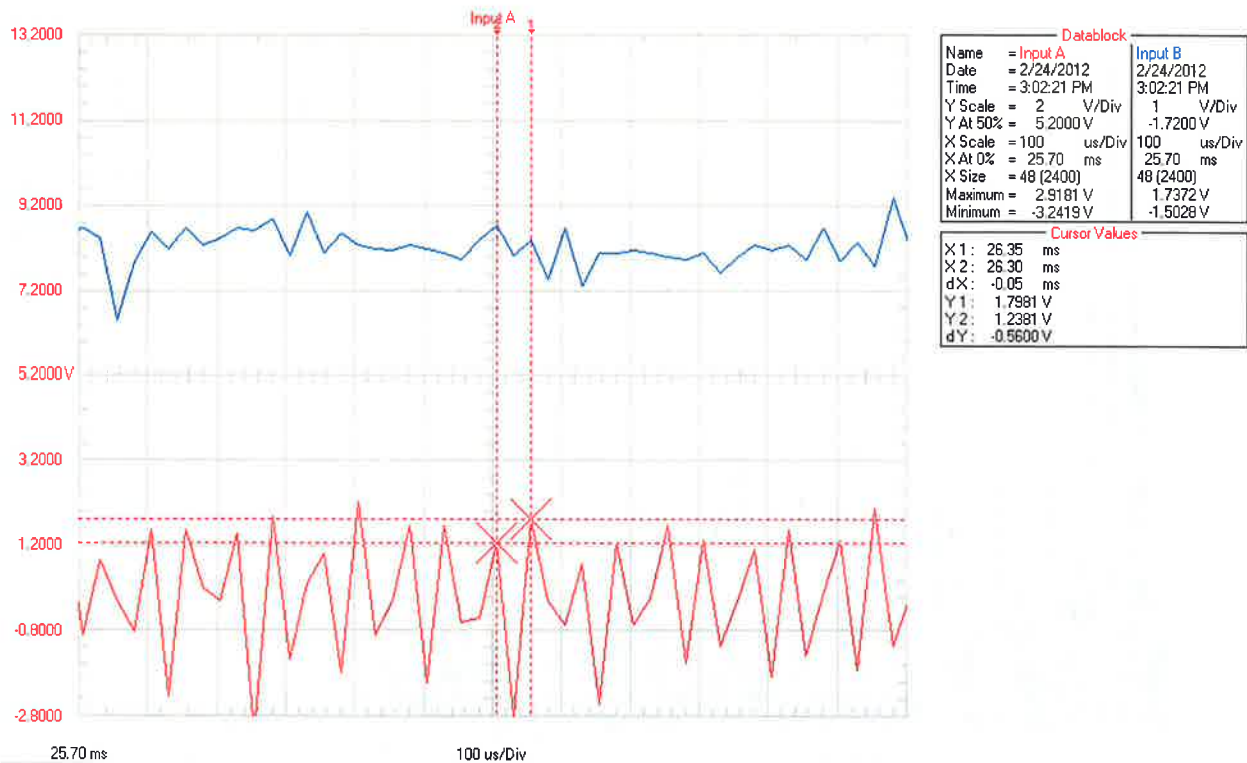
collectors, during the day the dirty electricity in the wiring will measure 600 dirty electricity units or above. When the inverter is turned off, the dirty electricity measures less than 50 units. Here is what is in house wiring in a house with rooftop solar as seen in oscilloscope wave forms.:



Solar array 49-810 Rancho Santa Fe La Quinta CA Blue = antenna in air
 Red = high pass filter, dirty electricity no filter DE = 620 G/S units
 20 KHz

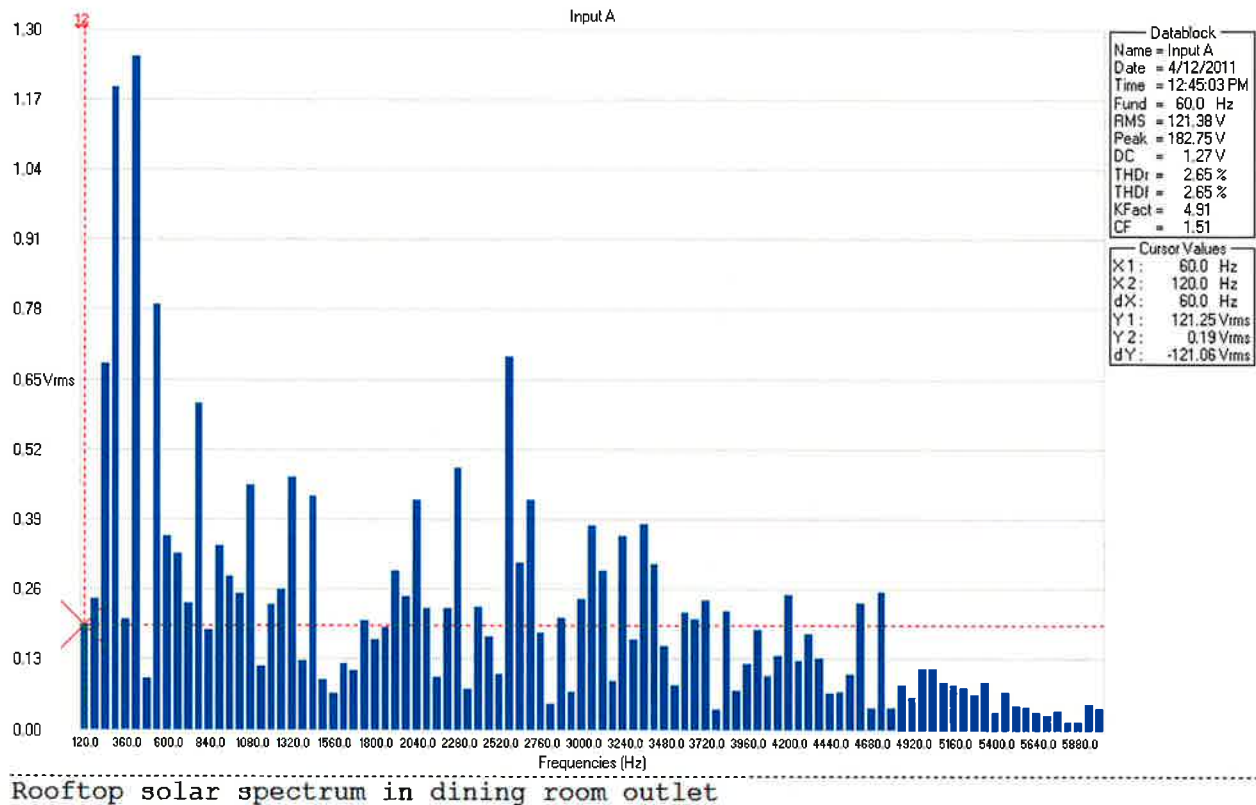
The top line is a corrupted sine wave, and the bottom line is the signature of solar arrays in the dirty electricity which passes through a high pass filter. If this wave form is enlarged, it allows measurement of the distance between peaks, for

calculation of frequency :



Solar array 49-810 Rancho Santa Fe La Quinta CA Blue = antenna in air
 Red = high pass filter, dirty electricity no filter DE = 620 G/S units
 20 KHz

Notice that the distance between the peaks is the same in the wiring as in air, and is 0.05 microseconds between peaks in the cursor values data block. This calculates to 20,000 Hz or 20 KHz. Here is what a solar harmonic spectrum looks



Unfortunately the California desert is being paved over with solar generators and the mountains are being sprinkled with wind turbines. The Bureau of Indian Affairs (BIA) and the Bureau of Land Management are selling large swaths of reservation and public lands to out-of-state and foreign groups using US American Recovery and Reinvestment Act money. Once the things are built, there are few long- term jobs, The land is ruined, the locals are being made ill, and the electricity generated is very dirty. The Manzanita tribe I worked with has so much illness being caused by the Campo wind farm that they are considering giving up their ancestral homeland.

The only good news is that there is a new thermal tower solar technology which melts salt to store the heat for night-time use. A plant near Blythe will go on line soon. Very recently it has been reported that this technology burns birds in flight.

I've written a book called *Dirty Electricity* available from Barnes and Noble and Amazon which tells the story in greater detail. My website: www.sammilham.com , chronicles my work.