

February 5, 2013

To Investigators of Newtown Tragedy

Neighborhood Infrasonic Hum (Environmental Stressor) / Lanza's Mental State

*Attachments included shown indicated as (A)*

*Documents to be presented at meeting indicated as (\*)*

For over 3 years western CT has been inundated with a bewildering low frequency noise and vibration problem that most are unaware of and certainly being over looked by many. Besides my own personal issues with it, my wide encompassing research to bring attention to the problem suggests far greater reaching consequences than just annoyance. The problem is caused by Infrasonic Low Frequency Noise (ILFN) sound waves creating various conditions inside dwellings that at times make those sensitized to it become distressed, both mentally and physically. The problem is known as "The Hum". And my research validates its occurrence in CT as well as locations throughout the nation. I started sensing it in late 2009 and documented a growing number of others as well in CT and the nation. I need to bring to your attention data from Lanza's neighborhood I collected in that area on September 24, 2010 (A) used to understand the extent of where the hum is occurring. This data was included in an information package to FERC December 12, 2010. Additionally, I notified FERC on December 6 & 12, 2012 of increases of horrendous low frequency hum for the days prior to the tragedy. The location and intensities I observed in that neighborhood as well as certain actions of Adam Lanza brought out in the media raise concerns that researchers have greater unappreciated the disastrous effects of long term exposure to these type conditions on fragile people.

This Hum is occurring throughout the nation. It is an understudied, rapidly worsening environmental stressor. The focus of my work throughout western CT are the Right of Ways (ROW) of buried high pressure natural gas lines, of which one of those is less than 1500 feet (D) from Lanza's home where a pipeline "loop" was added prior to the manifestation of the hum. For which was the reason I visited the neighborhood in the first place. On January 20, 2013 (E) I revisited the neighborhood and reaffirmed the sound waves throughout the surrounding neighborhood.

It is typical that only one individual in a house hold is severely affected, with many neighbors saying they aren't aware of it. Sensitized people mostly perceive it in the same way, as an idling diesel engine, some as a high pitch bizz mimicking tinnitus. Typical other symptoms are uncomfortable ear pressure, tingly floor vibrations and health issues commonly claimed as chronic fatigue syndrome bad enough to affect fragile people. 99% of the time the hum cannot be sensed outside of a building making this a very elusive problem to solve. It can be heard

inside a parked car though. At times the conditions are so right and so intense to cause surface puddles to vibrate and pool water to vibrate or induce standing waves like an earthquake. This has been communicated over and over asking for assistance in multiple filings to FERC and most recently in a number of filings in October and November 2012(\*).

Significance of research to Lanza's home;

- Sound profile measurements on September 24, 2010 from visited 3 locations near Lanza's neighborhood in Newtown- Kale Davis, Osborn Hill, and Paugusett / RT 34 roads. On January 20, 2013 these conditions were re confirmed occurring on surrounding streets.
- Dec 6<sup>th</sup> and 12<sup>th</sup>, 2012 e-mail complaint notifications to FERC of horrendous low frequency hum for those periods. (B)(c)
- Location of ROW to the Lanza home is less than 1500 feet.
- Testing done in 2010 and random visits to the area and others since then prove that the occurrence of the ILFN Hum in this neighborhood is as intense as in Brookfield. This means that since September 2009 this neighborhood has been exposed to the same horrendous conditions as my neighborhood and home as well as many other locations surveyed.
- Remembering after the tragedy my visit there in September 2010, I realized data may be important to the investigation team for something they may not be considering.
  - One can see the hum was occurring in that neighborhood for over 2 years prior to the tragedy on Dec 14, 2012.
  - One can also see the week before Dec 14 the hum intensity was horrendous in Brookfield which is indicative of Lanza's neighborhood
  - One can see the home's location is close to one of the studied gas system lines.
  - One can also see it is still active in our neighborhoods

Based on personal experience and observation of others- typical symptoms of severe exposure to the hum that needs to be looked into by investigators

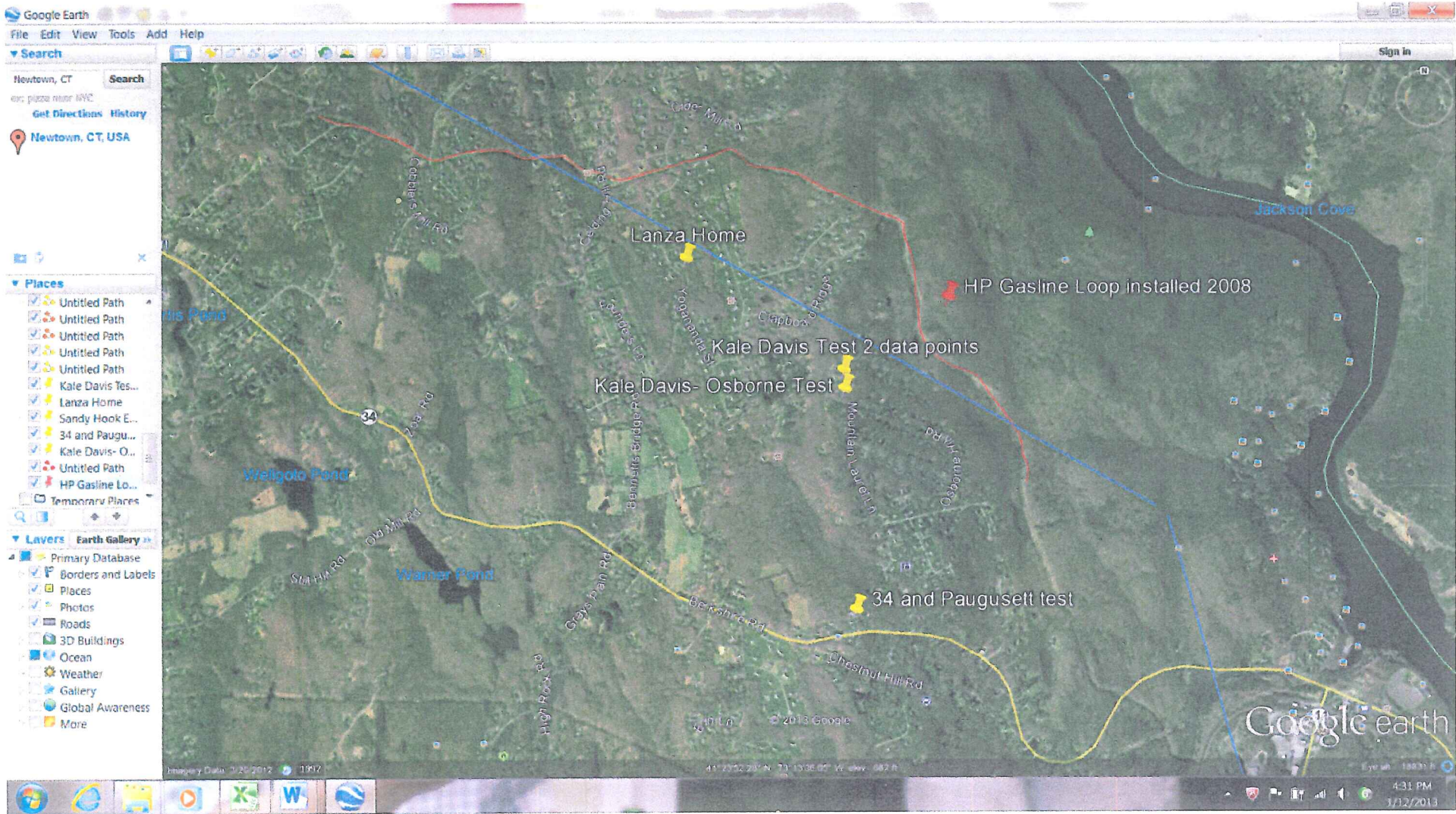
- Firstly and most importantly, explain and demonstrate the phenomena to most that will not immediately sense the problem
- Immediate ILFN testing at the home must be done, a sensitized person severing as a "mine canary" should participate to confirm active conditions
- Things to inquire about in determining culpability of the hum;
  - Claims of hearing the Hum
  - Recent developments of unexplainable medical conditions such as migraines, nausea, hearing problems, effects on memory, ringing of ears

- Recent social behavior changes such as withdrawal, isolation
  - Claiming unbearable LF noise like a diesel engine and needing a way to cope with it
  - Claiming feeling body sensations such as ear pressure, feelings of vibrations (investigators may pick up on this when inside the home, or sitting in their cars outside) can't escape and unable to cope with the sound
  - Participating in Hum, HAARP, Electro Pollution internet chat rooms
  - Suggestion of Bio chemical effects caused by the "Fight or Flight" response- specifically changes in cortisol, catecholamine levels and adrenal gland activity
  - Severe insomnia
  - Noise coping/ masking techniques in the living space such as those I and others are forced to use to sleep when levels are high, i.e. fans, HEPA filters, white noise machines, computer tone generating programs, ear protection (futile and worsens effects), etc.
  - Complaining about unbearable environmental conditions in the home that can't be escaped from and can't be pin pointed
- Interview neighbors if they are sensing something unusual inside their homes
  - Investigate changes in animal behavior in the last 2-3 years, like habitat abandonment of coyotes, pet developing extreme fear
  - Even more alarming is a coincidence of a national mapping of clusters of Hum reported locations to other mass murders. IS there are greater link? It is suggested those criminals be interviewed (\*).

The findings provided herein need to be considered as evidence. The effects of it on Lanza need further investigation in this case by professionals in many fields. This entire field dealing with excessive exposure to this "Hum" is only being appreciated by a few, and lacks a concerted effort by medical, behavioral, environmental, psychoacoustic, etc. professionals. This unfortunate tragedy needs to be the tipping point to get attention to this matter.

I believe contacting the State Police before others the most appropriate way to deal with this. I implore investigators to seriously consider this by engaging subject matter experts.

Thank you  
 Steve Kohlhasse  
 Brookfield CT



0-A

**From:** skohlhasas <skohlhasas@aol.com>

**To:** eric.tomasi <eric.tomasi@ferc.gov>

**Subject:** Region Wide HUM work

**Date:** Sun, Dec 12, 2010 3:28 pm

**Attachments:** FERC\_data\_REGION\_WIDE\_FF\_T\_MEASUREMETNS\_ALONG\_IGTS.docx (4357K)

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A-1

A-2

## REGION WIDE HUM- IGTS & AGT ROW'S (Dover Furnace NY, Gaylordsville, New Milford, Brookfield, Newtown, Middlebury, Monroe, Oxford)

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Representative Data from 8/24/10 through 11/28/10

**S.D. Kohlhas**

**12/11/2010**

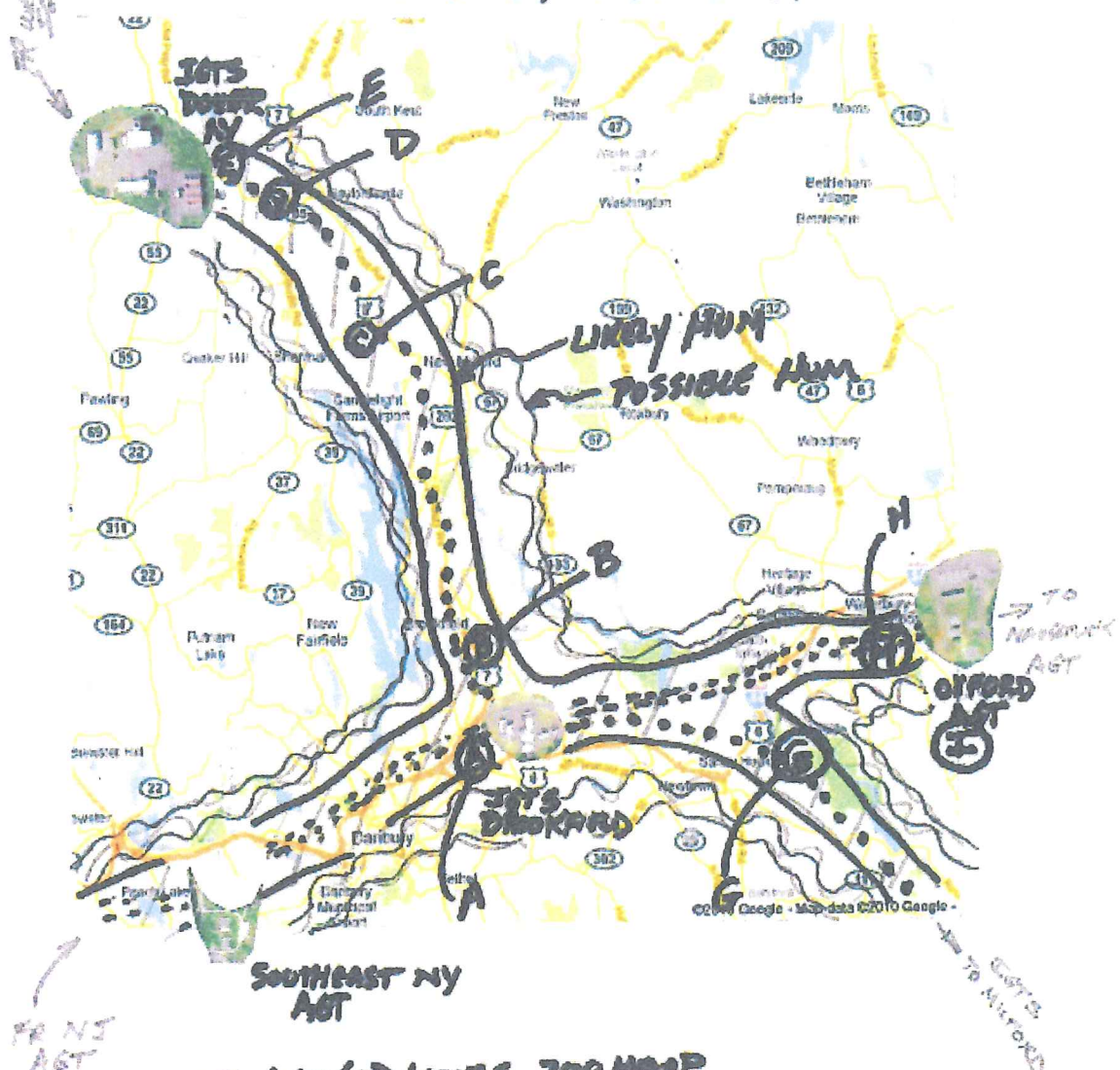
PURPOSE- Document a region wide problem of ILFN. FFT analysis has been employed as the experts suggest because standard sound meters are not subjective enough to evaluate frequency intensity and fluctuation as required to understand the cause and effect of the suspected pipeline vibro acoustics causing the region wide HUM. The relative intensities and peak to peak fluctuations are very consistent with the levels of noise and vibration sensation inside structures. September 25 and November 27 quiet data provided. It is suggested that the problem extends far beyond this focus area. Due to limited resources it is not possible to bench mark all variables at the same time.

3/3 

Google maps

# USE WITH SUMMARY OF FFT DATA

Notes



- - - AGT (L) LINES 700 MAOP
- ... JETS (I) LINE 1400 MAOP
- LIKELY IMPACTED BY VIBRO ACOUSTICS FROM PRLIVES
- ~ POSSIBLE RANGE

<http://maps.google.com/maps?hl=en&ie=UTF8&ll=41.53531,-73.381805&spn=0.406046,1.400757&z...>

A-4

Summary of FFT Data

summary of FFT.xlsx

Sect Items from over 200 FFT data points started Jan 31, 2010

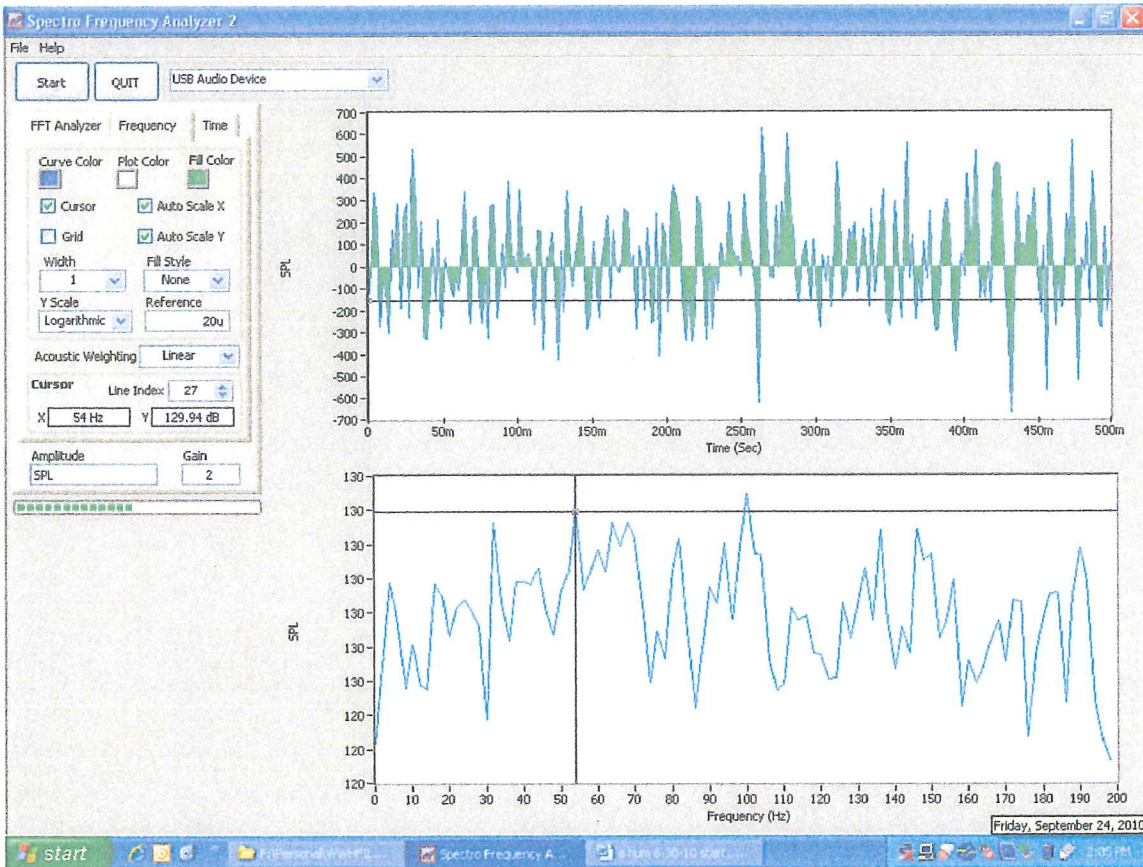
Date Taken	Time	HUM level inside space at time at location	Flutter Level at time 40HZ	Location	Dairy Farm Peak In House	HUM Peak In Car	HUM Peak Outside	Reference Point on Map
8/24/2010	7.42am	10	131.25	Master Bedroom Upstairs/ bath	131 from 18 to 90hz			A
8/26/2010	8.44pm	10		??	131.74 at 64hz			A
9/4/2010	7.41pm	6	148.23	Corner of Family Room	134 at 60hz			A
9/6/2010	11.30am	6		Cortland Rd Wellsville/ New Milford		135 at 52hz		C
9/11/2010	6.52am	8		Living room	131 at 68hz, 131+at 18hz			A
9/11/2010	9.34am	8-10	yes	Living room	(3) 130 below 60hz		137 at 42 hz	A
9/11/2010	9.42am		146	Driveway				A
9/11/2010	10.25am	7		Cortland Rd Wellsville/ New Milford		129.62 fro, 25 to 190 hz		C
9/11/2010	10.26 am	7		Cortland Rd Wellsville/ New Milford			133+ at 20,40,100	C
9/11/2010	10.46 am	8		Kent Road New Milford Estates		132.18 at 58hz		C
9/11/2010	11.03a	8		Webatuck RT 55 pull off Sherman/ Gaylordsville		143 at 65 hz peak		D
9/11/2010	11.06a			Webatuck RT 55 pull off Sherman/ Gaylordsville			146 from 30 to 110hz	D
9/11/2010	11.18a			Colonial Rd Gaylordsville			166 from 48 to 100 hz	D
9/11/2010	11.19a			Colonial Rd Gaylordsville		130 at 62hz		D
9/11/2010	12.07p			Outside Brkfd selectmans office		131 at 96 hz and lower		B
9/11/2010	12.27p	6	130+	High Meadow outside IGTS/AGT		130 at 8-190hz		A
9/11/2010	12.29p	8	139+	High Meadow outside IGTS/AGT			139 at 60 hz	A
9/11/2010	1.07 pm	8	133.65	Kitchen	130 at 15- 60 hz			A
9/11/2010	1.16p	10		Living Room	132 at 78			A
9/11/2010	10.38pm	9		Kitchen	130 at 58 hz			A
9/11/2010	10.38pm	9	yes	Back Porch			139.64 at 15-58 hz	A
9/24/2010	1.28 pm	yes		Chemtura Lot Middlebury		130 at 35- 160 hz		H
9/24/2010	1.53pm	yes		Kale Davis/ Osbourne Rds Newtown		131- 132 at 10-200 hz		G
9/24/2010	2.12pm	yes		Old Zoar Rd Monroe		133 peak at 39hz		G
9/24/2010	2.33p	yes		Newam / Secor BRKFD		132 from 38 to 100 hz		A
9/24/2010	2.39p	6		Living Room		131.61 at 84 hz		
9/24/2010	4.21p	5	131.39	Corner of Family Room	<131.39			A
9/25/2010	7.09 am	2		Living Room	118 at 30 to 180 hz			A
9/25/2010	7.11am	2		Living Room	ave 117 10-180 hz			A
9/25/2010	10.45 a	2	145 see 10.47 am	Corner of Family Room	130 at 70 HZ (high flutter influence low excitment)			A
9/25/2010	10.50a	2	140 at 58 hz	Back Porch				A

4 Plots



Date Taken	Time	HUM level inside space at time at location	Flutter Level at time 40HZ	Location	Dairy Farm Peak In House	HUM Peak In Car	HUM Peak Outside	Reference Point on Map
10/6/2010	6.43 p	8	146	Family Room				A
10/7/2010	11.29	6		Woodruff Rd at AGT Oxford		135 at 62 peak		I
10/7/2010	11.35			121 Oxford Airport		131- 10hz P-P		I
10/7/2010	11.39			Christan Rd Oxford AP		130- 6 hzP-P		H
10/7/2010	11.47am	buzz saw hum		Chemtura Lot Middlebury		132 to 124- 30 to 110 hz		H
10/7/2010	11.49am			Chemtura Lot Middlebury			132 to 142 - 18 ti 110 hz	H
10/7/2010	6.50p	9		Kitchen	131 at 18 hz 124 to 131 p-p			A
11/20/2010	3.24pm	8		Webatuck RT 55 pull off Sherman/ Gaylordsville		147 at 78 hz		D
11/20/2010	3.31 p	6		Anderson Road Dover NY		122 at 54 hz		D
11/20/2010	3.40p	7		RT 55 Dover NY		124 at 68 hz, 114 to 124 P-P		E
11/20/2010	3.59p	5		Dover Furnace RD IGTS Driveway		120 at 32 hz		E
11/20/2010	4.03 p	7		Dover Furnace Road North of IGTS		120 at 32 hz 20 to 130 hz range		E
11/20/2010	4.31 p			Colonial Rd Gaylordsville		120 at 88 hz		D
11/20/2010	5.46 p	8	121	Kitchen		<121 wide range		A
11/21/2010	3.52p	7	137	Family Room				A
11/21/2010	3.45 p	7	129	Kitchen				A
11/21/2010	3.49p	7	147	Under Back deck				A
11/27/2010	2:55P	2	no	computer room	115-122 low fluct.			A
11/28/2010	8:29a	8		computer room	120+ high fluct.			A

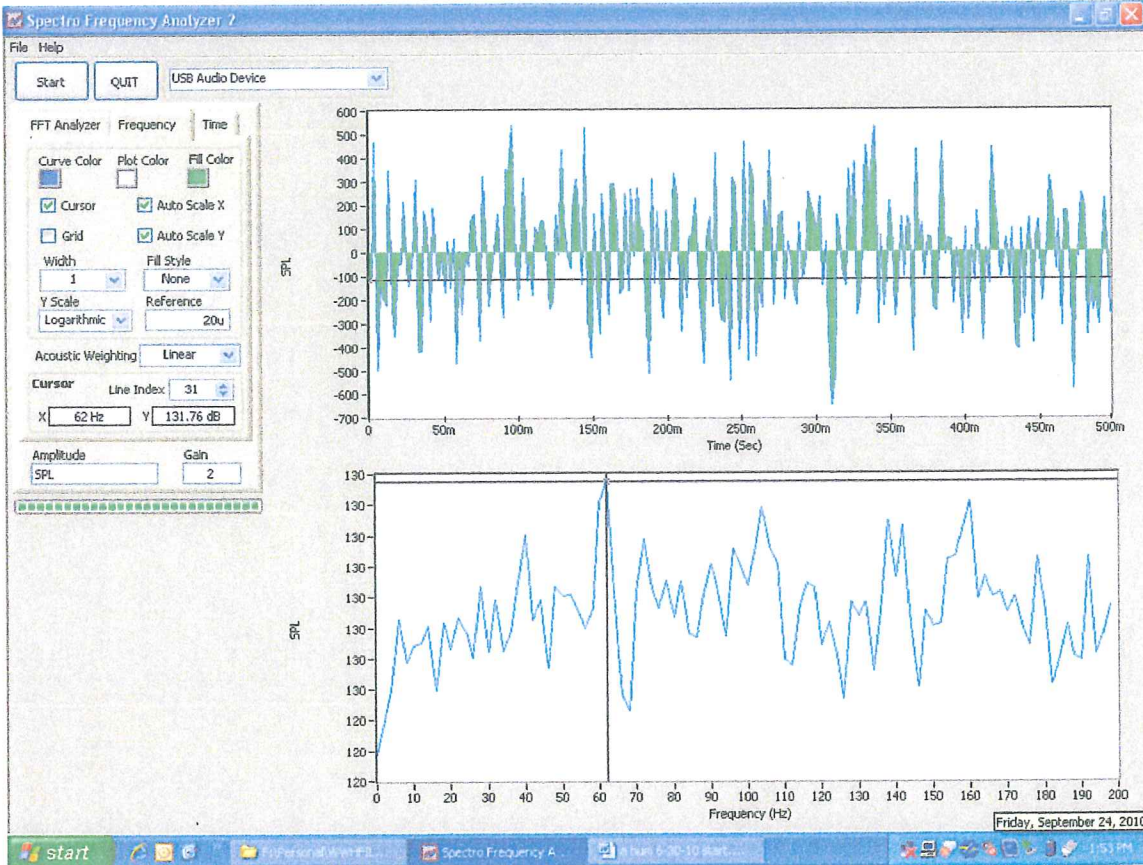
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34 and  
pegasuett

FINGERPRINTS OF  
THE HUM - TAKEN INSIDE  
PARKED CAR.

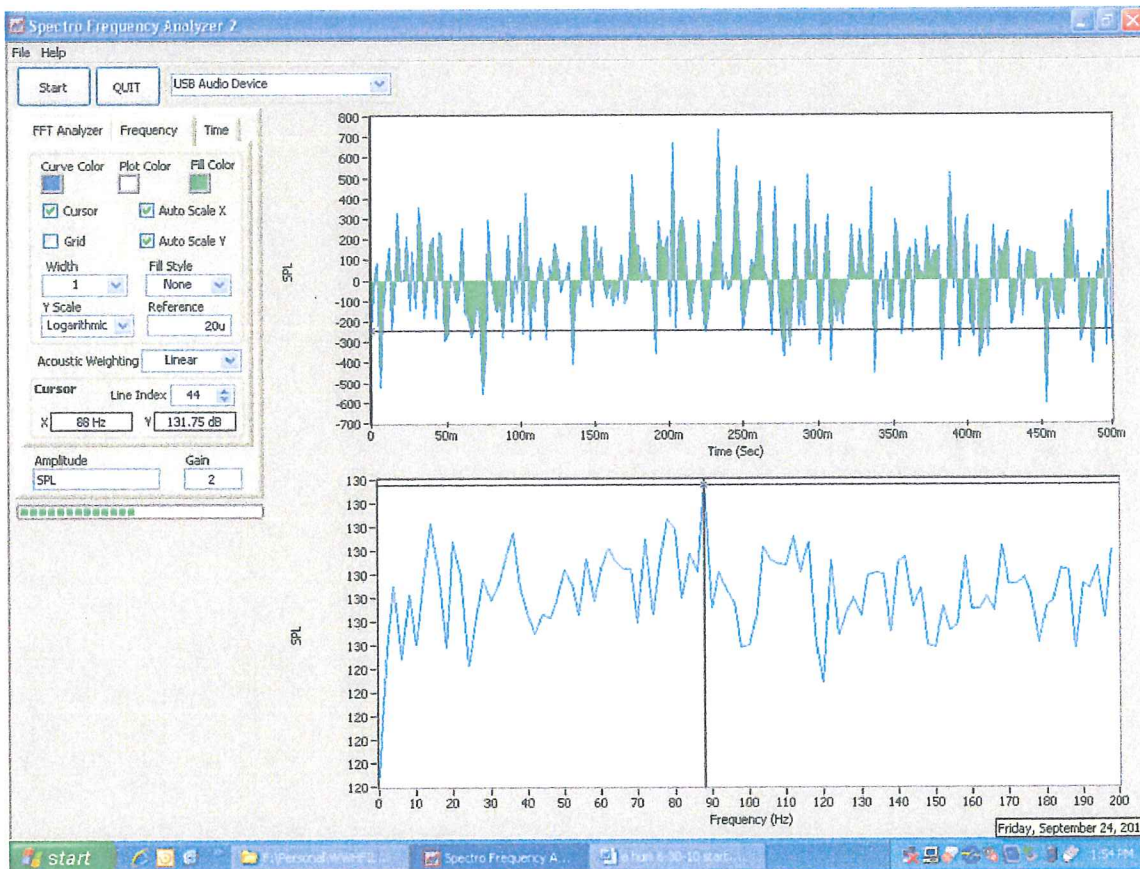
A-7



kale  
davis

FINGER PRINT OF HUM

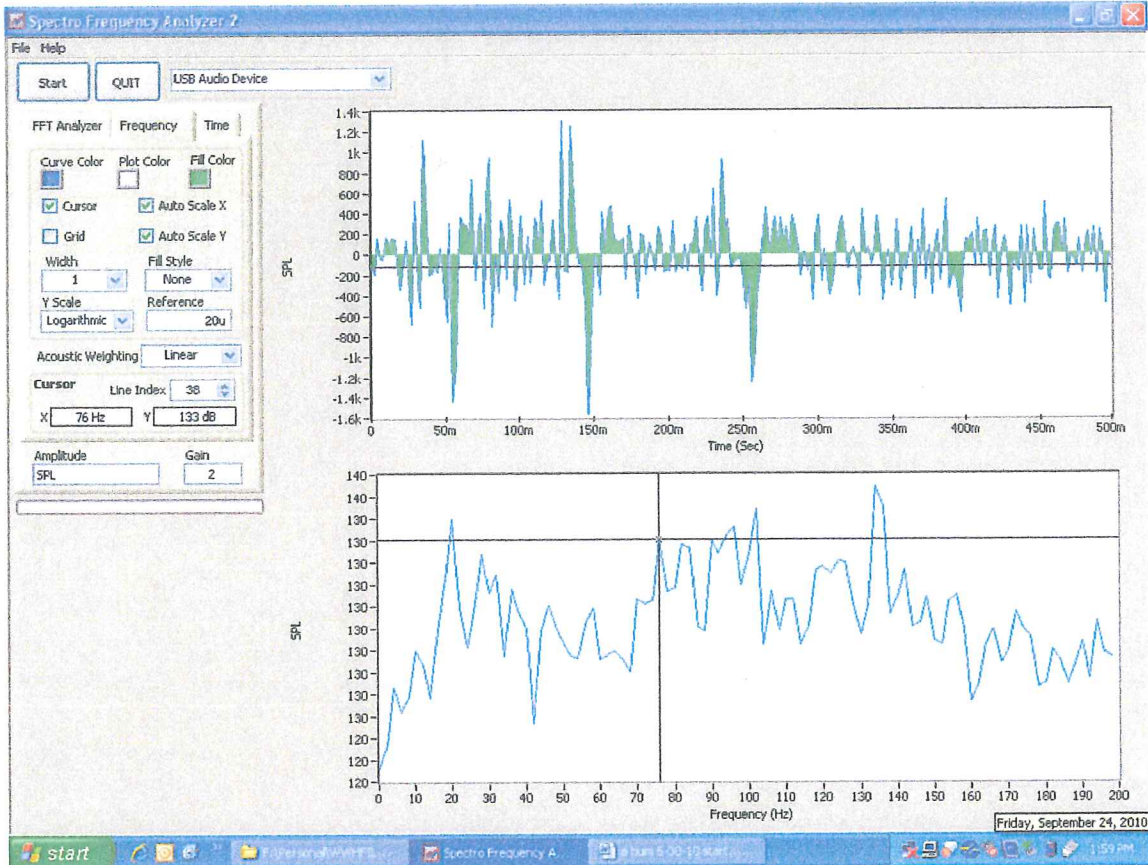
A-g



kale  
davis

FINISH PRINT OF HUM

A-9



kale davis and Osborne hum higher here than end of kal

FINGER PRINT OF HUM

- Search Mail
- Today on AOL
- New Mail 28
- Old Mail
- Drafts 1
- Sent
- Spam 6
- Recently Delet...
- Contacts
- Calendar
- My Folders
- Saved Mail
- Saved Chats
- Notes

Fwd: Hum and vibration horrendus last nite 1 day ago

Steve Kohlhase to you show details  
Sent from Steve's iPhone and I appologize for typo's  
Begin forwarded message:

From: Steve Kohlhase <skohlhasas@aol.com>  
 Date: December 6, 2012, 4:50:48 PM EST  
 To: Paula Felt <Paula.Felt@ferc.gov>, Ferc eric <eric.tomasi@ferc.gov>, Bruno <riccibru@aol.com>, Joseph Halloran <josephhalloran@earthlink.net>, Murphy Rob Michalik <rbertmichalik@mail.house.gov>  
 Subject: Hum and vibration horrendus last nite

I've been tied up all day, feel like shit from the dam hum and vibrations all last nite. Just getting around to this. I suppose IGTS and AGTS got their nominations and started operating last nite at peak problem mode. The videos this morning I took in the corner chair should show the extreme vibrations going on at that spot from hum and flutter. Elsewhere from probably more the pipeline issues When will FERC flex its muscle and enforce regulation. I continue await answers

Sorry for vulgar, but this is beyond belief?

Steve

Sent from Steve's iPhone and I appologize for typo's

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- Spam
- Recently Delet...
- Contacts
- Calendar
- My Folders
- Saved Mail
- Saved Chats
- Notes

From: Steve Kohlhase <skohlhases@aol.com>  
 Date: December 12, 2012, 5:13:24 PM EST  
 To: Paula Felt <paula.felt@ferc.gov>  
 Cc: Eric Tomasi <eric.tomasi@ferc.gov>  
 Subject: Re: Variability of in home/ work office hum

This  
 Sent from Steve's iPhone and I appologize for typo's  
 On Dec 12, 2012, at 4:06 PM, Paula Felt <paula.felt@ferc.gov> wrote:

Eric: Any suggestions? Paula

-----Original Message-----  
 From: Steve Kohlhase [mailto:skohlhases@aol.com]  
 Sent: Wednesday, December 12, 2012 9:18 AM  
 To: Paula Felt; Ferc-eric  
 Subject: Variability of in home/ work office hum

Paula/ Eric

Over the last few niles and days, the horrible hum and vibrotactical vibrations have been intense. But last night and this morning the at least the audible aspect was very low (not acceptable, but bearable)

Same both et home where IGTS and AGT lines are and at my office near oxford airport where its only the AGT 2 lines.

I know I'm Repeating myself, but is there anyway to get operalling records for these systems from their scada so I can correlate itum to operting conditions.

Thanks

don't miss TODAY's deal from AT&T



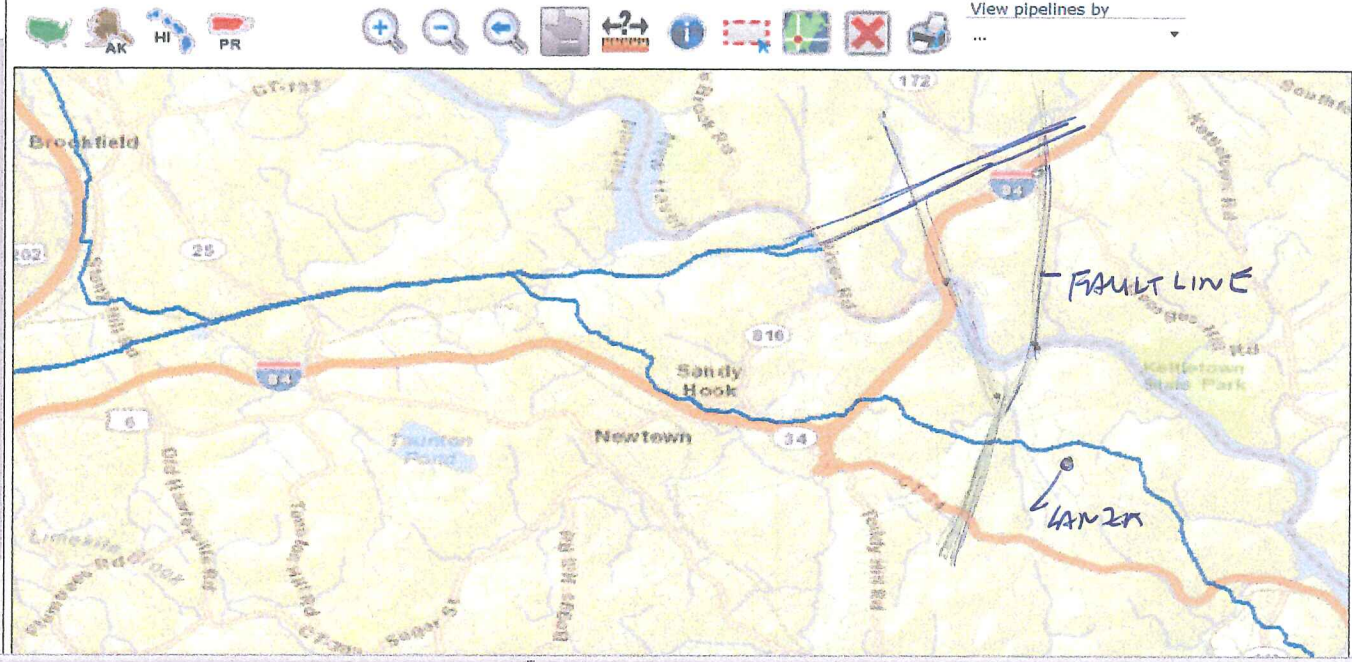
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    - GAS
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    - LIQUID
  - LNG Plants (scale dependent)
  - Breakout Tanks (scale depend...)
  - Other Populated Areas (scale...)
  - Highly Populated Areas (scale...)
  - Roads, Railroads & Airports
  - World Transportation
  - Boundary Lines & Names
  - World Boundaries and Place...
  - Shaded Relief
  - World Shaded Relief





Lanza area- audible hum levels from inside car- scale 1 to 10 with 10 being very bad. Start 1PM finish 2 PM on Jan 20, 2011<sup>3</sup>  
Levels at Home 1PM- 5, 2PM -8. Area previously visited 9/2010 and undocumented visit in between.

