

**PRELIMINARY** 

# Pulsed Technologies Device Specific Considerations

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### Device Specific Operating Considerations (version B – Bioenergetics)

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This document is being made available in multiple versions ONLY for users of Pulsed Technologies equipment. This content may NOT also be applicable to previous RIFEforLIFE equipment as Pulsed Technologies has extended features, software and operating parameters. Where ever possible, generic explanations have been used. Some RIFEforLIFE equipment may be able to be upgraded to the latest Pulsed Technologies designs in the near future.

Some versions of this document may contain proprietary information and explanations requiring a signed non-disclosure agreement in which case those areas will be grayed out, blank, or otherwise not viewable.

#### Devices to Be Discussed:

- > PT-PFG Pulsed Technologies' Precision Function Generator
- PT-P3 Pulsed Technologies' Precision Pulsed Plasma





#### Assumptions\*:

- \* If any of the above criteria are not met, please familiarize yourself with that area you are deficient **BEFORE** proceeding any further.
  - It is assumed you are a professional practitioner or serious researcher or you would not have legitimate access to this document.
  - It is assumed you have some degree of experience in health care\*\*, and the concepts of bioenergetics and resonant frequency devices.
    - \*\* If your technical interests are not biological or health related, this is not the correct document for your use. Please inquire to see if an operating consideration document has been compiled for your particular interest.
  - It is assumed you have already reviewed the "consideration documents", specifically <u>BIOENERGETICS SESSION CONSIDERATIONS</u> and <u>FREQUENCY GENERATION</u> <u>CONSIDERATIONS\*\*\*</u>
    - \*\*\* You will probably notice that many of the topic headings are identical to previous documents but contain similar information. They also contain additional and more complete, sometimes even seemingly contradictory information, but content that is appropriate to a fuller and more practical understanding from a professional point of view.
  - It is assumed you currently have in your possession either the PT-PFG Contact System or the PT-P3/PT-PFG Plasma System and are familiar with their connections, controls and operation.
  - It is assumed you have current knowledge of the Microsoft Windows operating system or whatever operating system you will be using\*\*\*\*.
    - \*\*\*\* An exceptional number of phone calls to technical support are not actually in regards to the Pulsed Technologies software but rather the very basic Microsoft Windows system functions such as copying, moving, editing and navigating files using the most basic of included Microsoft accessory tools. Every copy of Microsoft Windows comes preinstalled with a simple video tutorial to walk you through these most basic functions. Very economical videos and instructions booklets are available at almost any books or computer store and are well worth your investment in time or money if you are not already familiar with the basic windows functions.

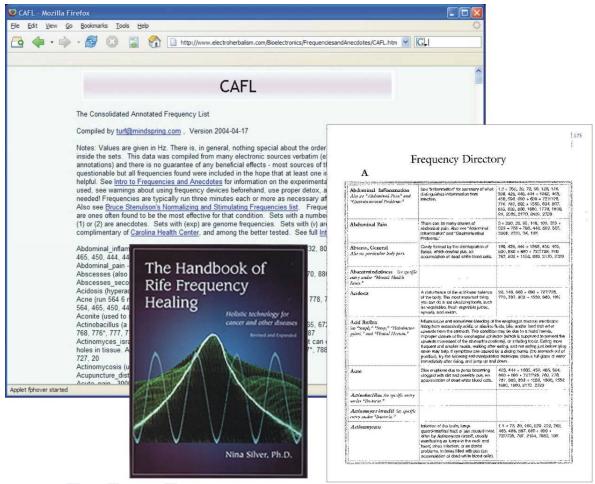
Note: Windows is a registered trade mark of Microsoft.





#### Use of the CAFL and other Frequency Lists

In one or more of the "consideration documents" it was suggested Brian McInturff's CAFL (Consolidated, Annotated Frequency List) at <a href="https://www.electroherbalism.com">www.electroherbalism.com</a> and Dr. Nenah Sylver's Handbook of Rife Frequency Healing available direct from the author at <a href="https://www.nenahsylver.com">www.nenahsylver.com</a> were both good "starting points". This is absolutely still the case.



If you have no desire or need to do anything other than simple apply someone else's protocol, simple use these numbers. They are typically far more complete and more current than what is provided in any preprogrammed units.

Although some manufacturers preprogram their limited interpretations of these lists, in many cases they also intentionally obscure the actual numbers modifying them into alphanumeric codes, thereby preventing verification and validation of actual frequencies as well as the ability to assure accuracy. We have chosen not to duplicate what we consider to be a serious error in judgment and permanently limiting factor for comparative use. For this technology to advance, accurate, verifiable and reproducible protocols need to be developed.



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#### **FDA Catagorization**

It has also been brought to our attention that providing readymade lists of a medical nature, embedded in this universal equipment very likely would categorize the equipment (by FDA) as a piece of unapproved medical equipment placing it in a manner other than as the more universal tool intended. This would also legally place it in an area unavailable for use by professional practitioners. While other manufacturers have chosen to risk certain aspects for short term gains, understanding that this equipment has a wide variety of technical commercial and industrial uses, we have chosen to concentrate on the physics and designs and provide the tools for development in the specific areas.

For those interested in health and wellness applications, we are placing in Appendix \_\_\_\_\_, the FDA exemption which seems to appropriately cover the professional use of research devices such as ours. Ironically, those manufacturers who have chosen to make certain claims, and incorporate medical related protocols into their equipment, have likely forfeited permanently their ability to fall into this exemption category or allow professional use of such equipment.

#### **Professional Users**

It is our opinion, a professional user, owes it to their client or test subject to do the research and provides the best custom script available for their client. This requires observation, communication, testing, adjustments and even experimenting. It is for that reason, Pulsed Technologies has chosen to work more closely and focus on the professional researchers' and practitioners' needs and help provide some of the tools and resources not available or easily understood by the general public or end-user.





#### Modify as Needed

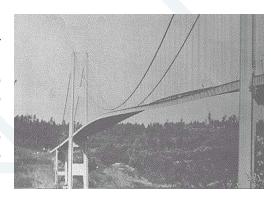
In our opinion, the absolute **worst** thing an individual can do is simple accept a list someone else has prepared and go no further in modifying and tailoring it to the individuals own unique needs. No two people are alike ...and it is unlikely their frequency sets will be either. A person who relies totally on a prepared/pre-programmed frequency set without any consideration to their changing present needs has effectively NOT taken responsibility for the situation, but rather is transferring the responsibility to an unknown script, written by an unknown creator, with largely unknown results, under unknown conditions. This is definitely NOT recommended!

#### **How Long**

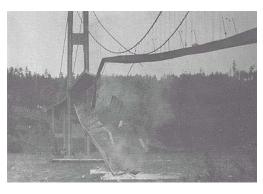
New users usually ask "how long" should a *frequency* or frequency set be used. And probably the FIRST question you (the reader) are asking now is, "What possible relationship do these pictures of a collapsed bridge have in common with the question relating to time?" Well... they have *EVERYTHING* to do with it... But I will try to keep it as simple as possible in a multi-perspective explanation.

"A driving force in tune with the natural frequency (sometimes known as the resonant frequency) of an oscillator can buildup larger amplitudes than the oscillator could alone. This buildup is known as resonance or sympathetic vibration. Imagine swinging on a swing. If someone pushes you at the right time, the amplitude of your swing increases. The pushing has to be at the correct frequency, however. If someone pushes you at random intervals, the chances are it will not cause you to swing very much higher, but if the pushing is in tune with your natural frequency, you can go very high indeed. This principle applies to more than swings."

"In 1940, the Tacoma Narrows bridge, now better known as "Galloping Gurdy" collapsed when a steady wind provided the energy for the bridge to begin oscillating in simple harmonic motion. The amplitude of the oscillation continued to increase, and the bridge began twisting as well, until eventually it collapsed. These days, engineers try to avoid this sort of resonance by adjusting their







<sup>1</sup> http://library.thinkquest.org/C005705/English/sound/sound6.htm

These pages are for informational and educational use only. The devices, methods, and suggestions discussed in these pages are meant as a primer to this technology, to allow you the first-hand experience and self-education so that you may also personally validate the science underlying this and similar technologies and hopefully add your discoveries to the shared pool of knowledge. No health or medicinal claims are made. No guarantees of ANY KIND are suggested. Use of these type of technologies as a treatment should not be utilized as a substitute for competent medical care. Our focus is to provide some basic guidelines for experimenters and researchers who may otherwise endanger themselves as they probe the possibilities of this emerging technology and whatever it may offer them.







designs. It is also for this reason that army companies "break step" when traveling over bridges. Bridges have been known to collapse because the frequency of the marching of many soldiers all in step caused sympathetic vibration in the bridges."<sup>2</sup>

The transfer and buildup of energy you are hopefully affecting takes TIME to build up. The energy level at the affected object (cell) or structure (molecule) increasing over time based on present conditions and accuracy of frequency. If there is any irregularity or pause, the end effect diminishes or completely subsides and you must begin again. Switching too quickly to another frequency is essentially the same as stopping before the effect takes place and starting anew with a different frequency.

As we said before, it is up to each researcher/experimenter to determine on an individual basis what works in their unique situations.

#### **Frequency Application**

It is our opinion that using a smaller group of numbers is preferable to having large groups of numbers emitting over a long period of time. Our analysis have repeatedly shown that carefully selected groups of numbers yield better results than large groups. Additionally we have developed special software which helps identify the relationships and more useful harmonics

Calculating more Accurate/Appropriate Frequencies
[IN WORK-may be a patentable process]

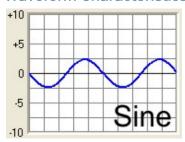
Once a selections of frequencies is made, then one must adjust Waveform accordingly.

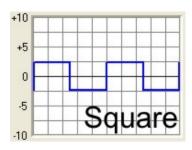


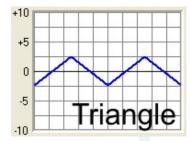
<sup>2</sup> http://library.thinkquest.org/C005705/English/sound/sound6.htm











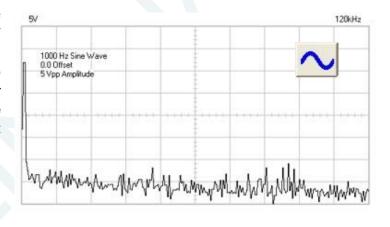
As previously mentioned, we use specific waveforms for different purposes. We have suggested that using a waveform such as the square wave which is harmonic rich gives us a far better "chance" of hitting our target MOR (Mortal Oscillatory Rate).

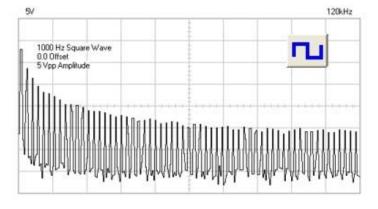
Let us for a moment however consider the amount of power present at a harmonic other than the fundamental frequency shown at right is the spectral emission of a 1000 Hz signal at identical power levels (5 Vpp) for each of the 3 basic waveforms over the same frequency spectrum (1000-120,000 Hz).

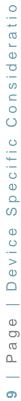
Sine Wave: In the case of the sine waver, there really aren't ANY harmonics. If you absolutely, positively, knew without question the MOR or effective frequency for your application, the sine wave would be your best choice. This is almost never the case. As a general rule, the sign wave is almost never used except for when experimenting with nondestructive brainwave states and entrainment applications.

Square Wave: Although the square wave has largely been the recommended choice in the past because of the "shotgun approach" it provides. Notice however that it expands its energy shared across the entire spectrum and if the MOR or effective frequency is a harmonic very distant from the fundamental input signal, the amplitude is so greatly reduced it may not be

effective for your purpose or require











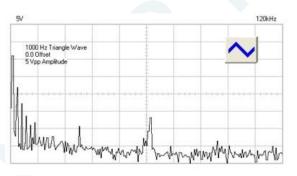
an application time so long (see "How Long?" in an earlier section) as to make it impractical to use. In contact methods, such as with the PFG used with directly connected electrode pads, the fast rise times make this the preferred waveform.

Triangle Wave: The triangle wave contains some harmonics, the majority of which are clustered close to the fundamental frequency. Almost all power is within this close cluster. This can be a preferred waveform IF it is within range of the true MOR and the frequency is high enough to present a fast rise-time on the leading edge of each pulse.





The Triangle (Sawtooth) Wave has two additional variants with descriptive names, Ramp\_Up and Ramp\_Down. When working with certain electronic applications to best manipulate coil fields... it is sometime advantageous to utilize this manipulation to obtain optimized drive to the electronics or output device.



#### **General Waveform Recommendations:**

Sine wave - when working with brainwave states 0-15 Hz

Square wave -when working with PFG using contact mode (electrode pads) at ANY frequency although the operator may want yo use other waveforms for more selective targeting in contact applications.

A waveform OTHER than "square" is best used with the PT-P3 although even square waves may be used in the audio ranges. 20-20,000 Hz.

Triangle wave - when working with frequencies above 30,000 Hz outputting to the P3 system.

Ramp\_Down, Ramp\_Up - when working with/outputting to the P3 frequencies above 50,000 Hz.

**NOTE:** When sending signals to the P3 plasma unit, this is NOT the actual signal that is outputted via the tube... but rather the signal pulses that causes a build up in the coil field driving the plasma tube. Logic applied to the output of contact applications is not necessarily applicable to the plasma drive.

#### Offset

Offset is the shifting of the waveform amplitude in its relationship to 0 volts.

Offset is **NOT** important in **PT-PFG** contact method applications.

Offset is an ideal method for manipulating the optimal amount of drive to the PFG-P3.



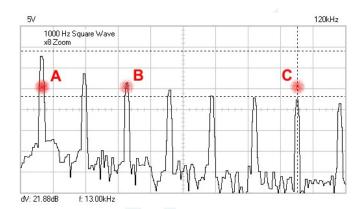


**Note:** In earlier RIFEforLIFE PPET systems, adjustment and programming of this offset was extremely critical to obtain proper drive at higher frequencies. In all Pulsed Technologies P3 systems, this requirement has been virtually eliminated although optimization is still highly recommended.

[IN WORK]

#### **Harmonics**

Most of us realize that we are not using a single frequency, but rather clusters of resonant harmonics of a fundamental frequency. Limitations of some/most equipment may not allow it to effectively operate outside the lower audio ranges while others now allow for versatility into extended ranges.



These harmonics also utilize energy.

The energy you expend is allocated among these harmonics as well, not only the fundamental generated frequency. If the specific ACTUAL mortal oscillatory rate is known, it is logically far better to focus ALL of your energy at or near that specific frequency via a waveform that doesn't expend/share its energy with the harmonics spread out across the spectrum.

#### **Pulses**

The term pulsing is typically used incorrectly by most rife users. Each signal we send out is an effective pulse. In signal terminology, what most users are referring to is a "gate" or "gating" and that is a regular pause in a steady signal... much like opening and closing a gate to allow a group of signals thru, closing it briefly, then opening the gate to allow another group thru. The first pulse after this pause is typically slightly higher in amplitude (power) and considered by some as just a bit more effective. In reality, that extra power, when applied to the harmonics may be just enough "extra" to reach the minimal threshold required for resonance transfer of a higher frequency MOR. It is our position, that if you are already using well designed equipment, capable of accurate and consistent delivery at higher frequencies, the use of gating is actually *COUNTER-PRODUCTIVE* as it acts as a break in the steady transfer of energy. Remember the "Galloping Gurdy" bridge example!

#### Sweeps

It is natural for any organism to mutate to a varying degree. This is simply one manner it/we adjust to a hostile environment. Likewise, the MOR (Mortal Oscillatory Rate) also moves slightly making it typically necessary to vary the fundamental frequency to effectively "get" both the target and its mutated offspring as well to prevent a "reoccurrence" of the problem.

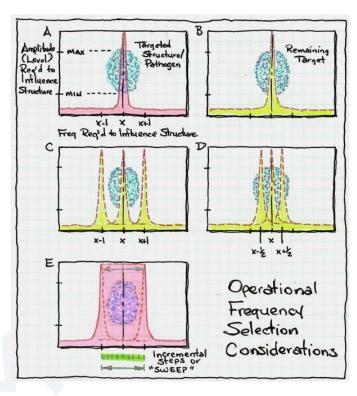




Sweeps refer to the constant shifting of frequency between two separated frequencies or the shifting of frequency to either side of a central frequency in much the same way one might envision a windshield wiper shifting back and forth to cover a larger area.

#### Micro stepping

The concept of sweeps is important, HOWEVER, the "implementation" is far more important for effective use. A true sweep is an analog method in much the same way as rotating a mechanical dial on an older radio to shift the frequency up or down. Most of today's accurate and stable equipment technology utilizes direct digital synthesis (DDS) and in the best cases also numerically controlled oscillators (NCO). Both pretty much do away with the instability of analog devices but provide accurate and stable oscillation. To provide the equivalent of a sweep function, incremental stepping between the outer 2 frequencies is determined and typically computer controlled. The size of these steps can be controlled.



As we read earlier, in the "Galloping Gurdy" analogy, it takes time at a given frequency for the effects of resonance to build up, effectively building up the energy. With conventional sweeps technology, it is very unlikely that the duration of a shifting frequency would be able to have a positive, negative, or ANY effect on a target. With micro stepping, controlled durations, and even being able to program certain areas of a "micro stepped sweep" to have more time focused, a far more effective use can be obtained.

#### **Toxic Chemicals/Medications**

This will be addressed in more detail in the "Common Sense Considerations" which follow. If you are however noticing reactions with medications, adjust (lower) your exposure times to minimize adverse toxic exposures.

More effective delivery of prescription or natural medications is a possible effect, allowing for the reduction in quantity of substance while achieving and equal or better level of delivery. This can be *VERY* important when one considers that most prescription medications and even some natural supplements have some level of toxicity. (A bit more about this in the next section)





#### Precision Function Generator (PFG) Contact Method of Application

The PT-PFG, when used by itself, is one of the finest and most accurate programmable contact devices available. Used with the operators personal computer, it allows users with modest budgets, high performance at low cost. Nothing has been sacrificed nor should this method of application be considered inferior to plasma applications.

Contact methods are often reported to be far superior to even the most expensive plasma unit when dealing with pain for instance or targeting localized areas. However, contact methods are normally impractical if not impossible when dealing with children and pets *UNLESS* you have done your homework and are using high frequencies not sensed by the recipient.

The current PT-PFG is actually superior in delivery of high frequency signals as its range exceeds the plasma unit by another 900,000 Hz.



Pulsed Technologies' Precision Function Generator

The computer controlled PT-PFG offers versatile precision frequency generation for not only contact-type applications but suitable for laboratory and plasma type devices. (*Note: The unit can also be used to appropriately drive the more elaborate plasma devices using the same frequency sets built for direct contact.*)







# Precision Function Generator (PFG) Control Device for Plasma Drive Systems (P3)

Besides being a contact type device, the PFG utilizes the same accurate programmability used in contact methods and extends that versatility (and more) as a control device for plasma systems: Bare-Rife, EMEM, or the newest generation of pulsed contact devices like the PT-P3. The PT-PFG is the REQUIRED control device for the PT-P3.

#### Precision Pulsed Plasma (P3) High-Voltage Radiant Device

Most of the high-voltage plasma devices are able to be used in both radiant and contact mode. Although radiant in nature, contact provides a superior pathway to the targeted areas with radiant devices being superior when localized targeting is not possible or when multiple recipients are present.

Even without direct contact, the radiant nature of the plasma tube will provide theoretically useful signals to the subject(s) providing extra targeting via specialized grounding simply increases both amount and focus of areas of intended interest.

The newest Pulsed Technologies, P3 (Precision Pulsed Plasma) high voltage design may provide so much energy that contact modes are impractical or not recommended.







FDA EXEMPTION PDF





















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