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\*\*\* ONE IN A SERIES OF THE MANY MARVELS OF HEXADECIMALS \*\*\*

The HEXADECIMAL Solution, Created by Prof Bill Neill

This MARVEL is being sent to you:

SUBJECT: Phone Service During Emergency Conditions:  
- EMERGENCY PHONE COMMUNICATIONS SYSTEM -  
What we've always wished for Public Safety, we now can have;  
it's just one of the many marvels of the Hexadecimal Solution.

For the benefit of those persons who did not read my Treatise on Hexadecimals, or simply do not recall this important topic, I will present it here again, and elaborate upon it especially for you.

In recent national news, we have scary information about how the virus scare has experts going door to door as researchers worry that West Nile Virus may spread as birds fly. Is this a terrorist attack? Could San Diego be next? Or how about Los Angeles or Susanville or anywhere in between?

What is the level of vulnerability of attack? I set the level at 8 for San Diego, 7 for Los Angeles, and 2 for Susanville. Any terrorist in his right mind would come in through Mexico to attack the vast military installations in San Diego by way of biological warfare; this way, nature takes its course, with devastating results, man is unable to win this kind of fight. Nevertheless, I predict it will happen in the next ten years. Are we ready - no - absolutely not!!!! But that is not my job. I will only address a good EPC System that can save lives.

And in addition, what if we have an earthquake of 6.0 or more centered under your office! It is reported that we are over due for some major destruction. I am told, it is like riding the mechanical bull, you just wish you could get off as fast as possible, with as little damage as possible. Consider the Northridge Quake where it was clear that some pay phones still worked, but no coins were available, banks and businesses have far more pressing problems than giving coin change, or the coin box in the phone was full to capacity, in these situations, the phone system could have triggered free calls in the public interest. I have no ability to rate earthquake likelihood, but it must at least be in the 7 range, on the 0 to 9 scale.

Anyway, these and many other scenarios all present a common problem that I have addressed. Finally, an emergency plan that allows all to benefit. We all like 911 Emergency because we don't have to think about it, just dial it! But under catastrophic conditions, it will fail. We will have everyone calling everyone and that will do the same thing to the phone system that we can see on the freeway, bumper to bumper and no throughput. PLEASE, RE READ THIS, TO BE SURE YOU UNDERSTAND FAILURE ON A VAST SCALE DURING EMERGENCY CONDITIONS!!!!

There never has been a possible solution of restricting caller access because all the numbers issued use various combinations of all the digits in the allowed set. This makes it impossible to devise any reasonable solution to controlling

the phone system in an emergency that will allow for better overall service to the public.

With the advent of the Hexadecimal Solution, because we have so very many new, unused numbers, we FINALLY have the ability to assign specific phone numbers that are all the SAME numbers for EVERY city in California and the nation. Each city is now served by a different exchange, so we can assign \*xx-CITY in every city, so as to provide the same type number \*xx-CITY as the emergency access number for that city. San Diego could have 619/236 to 619/\*36-CITY, Los Angeles could have 213/485 to 213/\*85-CITY, AND ALL INTERNAL NUMBERS (EXTENSIONS) WOULD STILL BE THE SAME AS THEY ARE NOW. You will note that I have used the \* as an example, it is on the public dial, but it could be replaced with a hex F or hex Z, or other digits that are NOT on the public dial and that could be made available to be used by official callers. This is an urgent issue to be explored in a public forum. (Note: In some systems, True Zero (Ø) is not reproduced as a zero with a forward slash, not to be confused with the 0 on your dial, which is really a Hex A. I have used the letter Z to represent true zero, but Z is NOT a hexadecimal digit.)

Should we be attacked or suffer a devastating earthquake, the CPUC could have in place the EMERGENCY PHONE COMMUNICATIONS SYSTEM, which I propose will take charge of the needed services, ensuring that they have a far better chance of working as needed under these devastating conditions.

This EPC System would be activated on demand or automatically by each switchroom or prefix having its own earthquake detector that will automatically assert the EPC System, causing ALL calls to be refused within the first two digits of dialing. This is absolutely necessary to keep the public from clogging the network. This is tough love on a public basis. Calls that do not begin with a \* are automatically blocked, yet calls to emergency agencies are allowed to function. This effectively stops all other traffic, allowing for the limited functioning of the system to handle these needed emergency calls, allowing them to go through as quickly as possible.

Public agencies must realize their emergency radio and cellular systems probably will not work. Of course, the phone system may not work either, but we are attempting to make the chance of use have better odds than zero.

What a shame it would be to have a perfectly working phone system, suffering only minor damage, but that is so very overloaded that it can not handle calls. Do you realize, you must wait for the dial tone BEFORE you dial any digit? Dial tones will be delayed for several minutes, if you are lucky enough to get one at all under these conditions! But with the Hexadecimal Solution, we have solved the overload problem and substantially boosted the chance for successful communications using our existing phone system during emergency conditions.

Will you DEMAND that the CPUC examine this concept and address these issues before we need them to save lives. The life you save may be your own.

Sincerely,

/s/Bill Neill.

Prof Bill Neill.

PBN:dm