

## **Clay's Corner for December 2021 Providing news and views from a broadcast engineers perspective since September 1986**

Starting this last column of the year with the weather – November has lived up to its reputation as being the stormiest and wettest month of the year. In the middle of the month, we had high winds that knocked out power for many. Including Vashon and Maury Islands where those big 50,000 watt stations were busy burning diesel to keep them on the air. All together almost 160,000 customers were without power. In response to all of this, the Governor declared a severe weather emergency in 14 counties.

The famous 'Pineapple Express' did a real number on the NW Portion of Washington State as well as SW B.C. with record setting rainfall totals leading to large scale flooding on both sides of the border. The town of Sumas was particularly hard hit with an estimated 75% of the homes there having been damaged. Later in the month we are treated to more episodes of the 'Pacific Firehose' aka Atmospheric River.

There was a small mention that the drought we experienced this past summer was officially over. (Duh!). 2021 will go into the record books recording that record breaking summer. At this point, it's a pretty wet and soggy memory.

There were concerns expressed as to why B.C. has never used their warning systems to let citizens know of the dangers from all the flooding. Much of the stories about this situation brought back memories of a similar issue in California where citizens were upset that government officials were not using public alert and warning systems related to their fires.

Just like California, these kinds of situations often serve as a wake-up call to government officials.

This item from the CBC was posted on November 18<sup>th</sup> -

People are seen after being rescued by boat from an area that was cut off due to flooding in Abbotsford, B.C., on Tuesday. The province's public safety minister says B.C. plans to start using Canada's Alert Ready system next year. A government official said they were ready to use the system but declined because the alert would have reach thousands more than necessary creating the potential for mass panic etc.

This all underscores how there is a lot of work to be done in training governments, at all levels, as to when and how to use these systems.

On the south side of the border, we have a number of systems – EAS which works with broadcasters as well as WEA (Wireless Emergency Alerts) which work with Cellphones etc. In too many cases, these systems are not used, when they should have been.

Another problem is that young people are more likely to get their information via social media according to recent surveys. Many younger people these days cannot be reached by broadcast Radio or Television.

A new survey conducted by UNICEF and Gallup has some interesting findings –

45 percent of young people ages 15 to 24 said social media is a “go-to” information source, while just 17 percent of those ages 40 and older said the same, according to the survey. The findings were based on survey responses from people in 21 countries.

The 28 percentage-point gap on social media as a source of information is the greatest gap separating the age groups among the wide-ranging questions included in the report.

While a plurality of young people listed social media as their top source of information, older generations were more likely to list television as their most popular source — 39 percent. Fewer than one in five young people, 15 percent, listed the medium as a go-to source.

I think we have all come to understand the impact of social media when dealing with the impacts of Covid during this pandemic. A large percentage of those that say they don't want to be vaccinated cite social media sources as the basis of their decisions.

In times of disasters, like our recent weather events. It's important we get information from government entities that have accurate information. I wonder how many people have become anti-government due to our political divisions and vaccination boycotts to the point that their distrust is extended to other government entities like the National Weather Service or Emergency Management entities?

Have you noticed that you now see TV Cameras during programs, like news etc. I remember when, back the dark ages and I worked in TV, there was a rule – ‘Never show a TV Camera’....Seems like things have changed. Was watching Meet the Press recently and they had a lot of cameras in plain view. Perhaps the old rule was based on not wanting to see the scruffy dressed camera operators? No problem with today's robotically operated ones.

West Tiger Picture time - - -

As you all know, Terry Spring retired to his cozy place on a lake. Taking his place at ION was Pat Otis, who has been associated with several different stations over the years. Now when

I visit the West Tiger sites, I get to see an old friend. Recently he brought his Dog with him – very cool. Pat is certainly getting a crash course. First there was the logging of the top of West Tiger with the resulting log trucks churning the road into a fine layer of mud. This, of course, being helped with our deluge of rainfall. Then the station started having antenna issues (Never fun anytime, and worse in the winter). Then there is the weather – Pat posted these pictures on the WTM Remailer –



For the first since the '80's, the top of West Tiger (Owned by Weyerhaeuser) has been logged.

Mike Skelly, from Boeing, captured this picture of the newly logged area on West Tiger, looking Southeast from their Tower-Cam. Unfortunately, the broadcast towers are just barely visible. I added some arrows to help locate them



Here's a picture I took look at the summit of West Tiger from the East. Prior logging, the top of the mountain was covered with tall trees, like the ones still standing on the right.



The trees are cut down with a huge machine that grabs ahold of the tree and cuts it off at the bottom and lays it down. Now the challenge is how to get that downed tree up from where it was growing. Keep in mind they were cutting along the ridge lines where the slopes are quite steep.

In many cases they will use drag-lines to haul them into a central location. What they were using in much of this harvesting is a huge (I mean really big) 6 wheel drive machine called a Skidder that they drive to the location of the logs and haul them to the machine that takes the limbs off. This thing is amazing to look at. It has rubber tires outfitted with something akin to Tire Chains. This thing can go places that no Jeep ever could!



On the back end of this creature is a device that clamps on to the logs to be hauled out.



Here's a YouTube video showing how they work. [Skidder Tigercat 635 - YouTube](#)

Unfortunately, there is a new crime spree going on....Called Smash and Grab. Recently one of these was taking place in San Francisco where a guard was shot and killed while trying to protect a news crew covering the crime. He was shot in the abdomen during an attempted robbery of KRON-TV's camera equipment and later died from his injuries.

Whoa !! Makes you pause and wonder if stations are going to have to be more careful as to just what kind of stories they cover. Perhaps security guards are going to have to wear armor?

On the 24<sup>th</sup> I received an email from Kent Randles (Retired engineer in PDX) informing us that Phil Kane, K2ASP, had passed earlier that day. I did not know Phil real-well, however did enjoy chatting with him during previous PDX Summer picnics. I'm sure he will be missed by many. The following comes from Barry Mishkind -

**Phil Kane K2ASP became a silent key sometime last night. This is 30 days after his wife "Roz" passed on.**

**Phil Kane, well-known broadcast engineer, FCC District Director (San Francisco), attorney, and Amateur K2ASP passed away on November 24<sup>th</sup> in Beaverton, OR after dealing with some health issues. He was 85 years old.**



## **Philip M. Kane**

### **December 6, 1936 – November 24, 2021**

**Phil Kane was born in Brooklyn NY on December 6, 1936. Life brought him to California.**

**Phil earned a Bachelor of Electrical Engineering degree from The Cooper Union School of Engineering. He also graduated from UCLA, Los Angeles, with a degree in System Engineering.**

**After graduation, in 1957, Phil worked for the US Air Force as an Electronic Systems Engineer on major defense applications including USAF/SAC Command and Control System. There he designed and oversaw functional and operational tests.**

**From 1964-67, he served in the Ministry of Communications of the State of Israel. In the Engineering Services, Frequency and Licensing Branch he worked as a regulatory engineer, dealing with national and international communications regulatory issues.**

**Back in the USA, Phil joined the FCC in 1967, serving in the San Francisco office for 28 years and rising to the post of District Director. Known as a detailed engineer, he usually was more concerned with helping broadcast stations correct problems – although when they ignored/disobeyed his orders, there would be consequences.**

**During his time at the FCC Phil also attended San Francisco Law School, graduating with a JD in 1994. He was admitted to legal practice before California State and Federal Courts and before the Federal Communications Commission – and the Supreme Court of the United States.**

**Since retiring from the FCC in 1995, Phil would become perhaps the very first Alternate Broadcast Inspector under the ABIP arrangement. He had been an Attorney and Engineering Manager as Vice-President-General Counsel of the consulting engineering firm CSI Telecommunications. There his specialties included communications regulatory**

**compliance – legal and technical areas such as siting and land use permit issues for communications facilities, especially emergency communication siting, planning and operations.**

**As part of his work over the past 50 years, he qualified as Registered Professional Engineer in California, Nevada, Oregon, and Utah, and is eligible in all other jurisdictions.**

**Phil was Senior Life Member, Institute of Electrical and Electronic Engineers (IEEE); a Life Member – Society of Broadcast Engineers, Chapter Vice-Chair; a Senior Member – National Association of Radio and Telecommunications Engineers and a Life Member and Asst. Division Director – American Radio Relay League, and, locally, active in the Washington County (Oregon) ARES.**

**Phil had a both a great sense of humor and a clear understanding of the issues that have consumed much of the FCC he knew.**

**Phil passed away just a month after his wife. He is survived by son, Daniel (Leslie) Petcher; sister, Ruthanne Gould; stepson, Lee (Gina Rosito) Kane; and stepdaughter, Shoshana (Stephen) Silver. They asked that those wishing to make donations, do so in their name to any food bank.**

As many of you know, KIRO-AM-710, has long been FEMA's 'PEP Station' in the Seattle area, in fact, it's the only Primary Entry Point station for EAS for the State of Washington. Recently FEMA has been upgrading their facilities at the KIRO-AM Transmitter Site on Maury Island.

On the 19<sup>th</sup> of November they unveiled their upgrade to everyone. Here is how the Press Release read-

**FEMA and KIRO-AM Seattle to Unveil New Emergency Broadcast Studio  
*Ceremony to Include Live Demonstration of the Upgraded Facility,  
Highlighting Broadcast Radio's Critical Role in Nation's Emergency Alert and Warning System***

**SEATTLE** - FEMA and Bonneville Seattle will host the unveiling of an all-hazards upgrade to the "Primary Entry Point" facility at the KIRO-AM PEP Transmitter site on Friday, November 19, 2021. The modernization to the emergency studio increases Bonneville Seattle's KIRO-AM 710 resiliency to continue broadcasting under all conditions, including natural disasters and acts of terrorism. This facility is one of 77 across the country that serve as a National Public Warning System Primary Entry Point (PEP) station, participating with FEMA to provide emergency alert and warning information to the public before, during and after incidents and disasters.

KIRO-AM Seattle is the 14th station in the country to work with FEMA to complete the all-hazards upgrade, which includes increased sheltering capabilities, expanded broadcast capacity, and sustainable power generation for all types of hazardous events.

**WHAT:** News conference at 11 a.m. PT. Official remarks, Q&A, a tour of the facility, and live demonstration at the KIRO-AM PEP station emergency studio

**WHO:**

Speakers include:

- Antwane Johnson, Director, Integrated Public Alert and Warning System, FEMA
- Manny Centeno, IPAWS Program Manager, FEMA
- Brendan McCluskey, Director, King County Office of Emergency Management
- Jason Shirron, Coordinator, Technical Operations, King County Office of Emergency Management
- Vince Maykovich, Acting Regional Administrator, FEMA Region 10
- Darrell Brown, President, Bonneville International
- Cathy Cangiano, VP/Market Manager, Bonneville Seattle
- Jason Ornellas, Regional Director of Engineering, BIC-West Region
- Dave Ross, On-air host, KIRO Radio 97.3 FM

**WHEN:** Friday, November 19, 2021 from 11 a.m. to 1 p.m. PT (rain or shine)

**WHERE:** KIRO- AM Transmitter and PEP Site, 22805 Dockton Road SW, Vashon, WA 98070

Thanks to Steven Allen, Transmitter Engineer for KIRO- Here are some pictures of the new facility -



Here's a look at the call letters on the front of the KIRO Transmitter building. If you look close, they are a bit tired. One of their two towers is on the right



Time to remove the old green letters and for some paint.

With the building freshly painted white with blue trim. Time for the new, blue, call letters.





There they are –  
In the foreground is Jason Ornellas, to the right, with the hat, is Vern Lawton. On the left is Steven Allen. That's Bob the Lama on the roof...Steven says it's the Engineering Mascot



FEMA added two buildings to the site. Here the new generator building is being unloaded.



The generator building is on the left, on the right is the building containing the emergency studio and transmitter



Delivery of the fuel tank for the new generator.  
By now the new facilities are fenced.



On the left is the KIRO Transmitter building – On the right are the new FEMA facilities.

I should note that the existing KIRO-AM facilities already had just about two of everything –

Two towers, two 50,000-watt transmitters, two generators etc.



Inside the emergency studio building. The Gray cabinet on the left is a new 10Kw Nautel transmitter



The emergency studio equipment. Note the MRE's on the wall.

Manny Centeno, IPAWS Program Manager, FEMA is seated at the controls  
Behind him is the new, emergency 10,000 Transmitter. To the right is a rack full of related/supporting equipment.



Every year the Marconi awards are announced. As usual, most are on the other side of the country. This years Legendary Station is WSB in Atlanta. In fact the – only – West Coast stations named were –

**Spanish Language Station of the Year** - KLLI-FM, Los Angeles, Calif  
**Rock Station of the Year** - KLOS-FM, Los Angeles, Calif.

Edison Research/NPR is out with a new survey, and from it some interesting findings. One of which is that spoken words share of audio listening is up 8% this year and 40% over the last 7 years. Music still is very popular with 72% of audio listening. Interestingly, the age group showing the greatest increase were 13-34. The groups with the greatest increase in spoken word listening were Hispanic/Latinos and African American, Up 80% since 2014.

Perhaps this explains the popularity of podcasts? Here in the Seattle area – Radios stations that don't play any music are frequently in the top 10....Something that I have noted previously.

If you thought that the Coronavirus aka Covid-19 was going away...perhaps this was just wishful thinking as along has come OMICRON (I keep thinking 0-Micron as in the Boise, ID chip maker) A huge amount of airtime is being devoted to this new variant in recent days. Unless they find this new critter harmless, you can expect even more attention being paid to the spoken word.

Here in this country, the Stock Market took a tumble on the news. I suspect that airline stocks and other businesses, like hospitality, will again feel the brunt.

Here's a collection of recent related news items -

**“This virus just burst out of nowhere with all these different types of mutations,” said Dr. Deborah Fuller with UW Medicine. Fuller works on vaccine research and development, including for COVID-19. She is also the division chief of infectious diseases and translational medicine.**

**Fuller says the variant has specific mutations on its spike protein that indicates it has potential to resist vaccines and be more likely to spread.**

**“We saw when a virus has increased transmissibility, it starts to take over. This is exactly what happened with the delta variant. So to some extent that's a really big concern,” Fuller said.**

**She said their team has been emailing over the Thanksgiving holiday about the new variant and preparing test plans to test how effective existing vaccines are against the omicron variant. Other**

departments are planning to increase testing and sequencing to search for the variant here in Washington State. It's not currently clear if the variant has made its way to the United States.

The U.S., Canada, and countries in the European Union have all moved to ban travel from South Africa and surrounding countries.

The sudden ban had visitors scrambling to leave Cape Town and Johannesburg on Friday. A travel ban to the United States was announced.

So, what are we supposed to do? The recommendations from U-Dub –

Get Vaccinated if you are not  
If you are vaccinated, get your booster shot.  
Upgrade your cloth mask to a KN95.

Certainly, there will be a lot of news coming out on this variant...As they say, Stay-tuned.

Meanwhile, in other Covid related news –

Several European countries have announced further restrictions.

The IBC, whose convention was to start on December 3<sup>rd</sup> has clearly been scrambling with announcements that it's on and off...They finally announced that it was off.

The Presidents Vaccine Mandate for employers may be delayed due to pending legal actions. (A Federal Court blocked the order). Who knows, it may be the Supreme Court the decides these issues.

So far, no new radio companies have publicly announced vaccine mandates beyond the initial four that did so before the now contested federal order. In mid-September Univision Communications became the latest broadcaster to require all its employees to be vaccinated against COVID-19. The Spanish-language media giant joined Beasley Media Group, Cumulus Media and Urban One in mandating workers roll up their sleeves.

Scott Flick, a partner in the Washington, DC-based law firm Pillsbury Winthrop Shaw Pittman, says the judicial opposition to the federal vaccine mandate provides legal cover for broadcasters who would rather controversial vaccine mandates be a governmental matter instead of a private employment decision. "More specifically for broadcasters, the greatest risk of implementing a vaccine mandate for your employees is that some employees will walk out the door to work at the station across the street," Flick says. "If the station across the street is also subject to a federal vaccine mandate, that risk is reduced significantly."

At least one broadcaster voiced support for the court's decision. Salem President of Broadcast Media David Santrella said he was pleased with the results from the appeal to

the vaccine mandate, since Salem believes that receiving the vaccine should be a personal decision, not a government mandate,”

Bob Proffitt, President and CEO of Alpha Media, seemed to reflect a position shared by other broadcasters, “We’re looking at it and discussing with our advisors,”

Caroline Beasley stated that some employees have left the Company due to the mandate adding the move has mainly brought praise from their employees. Beasley said, “Everyone has their own reason not to get vaccinated, but we want to provide a safe working environment for our employees and the way to do that is to ensure our employees are vaccinated.” It should be noted that her father passed away from Covid.

Local, mega-company, Boeing, announced that roughly 6% of their 125,000 workers are seeking exemptions.

As the battlelines appear to be drawn by those that are refusing vaccination. A Kaiser Family Foundation survey looked into who remains the most likely, and least likely to get a COVID-19 Vaccine.

So, who will definitely not get the vaccine –

- 22% of adults said they won't be vaccinated or will do so only if they are required.
- 33% of rural residents
- 31% of Republicans.
- 25% of White Evangelical Christians.

The group with the most stating they have had, at least, one dose –

- 90% of Democrats.
- 86% of people 65 and older.
- 83% of College graduates.

The partisan divide-

- 59% of Republican and Republican leaning people say they have had, at least, one dose.
- 40% of Republicans say they likely or definitely won't get a booster

Is the seriousness of Covid-19 being exaggerated-

- 80% of the unvaccinated said yes
- 54% of vaccinated Republicans said yes.
- 44% of vaccinated Democrats said no.

Do you fear getting sick from COVID-19-

- 62% of unvaccinated said no.
- 42% of those vaccinated said no

Should vaccination be a personal choice –

96% of unvaccinated Republicans said yes  
73% of vaccinated Republicans said yes.  
19% of vaccinated Democrats said yes.

Some of the other findings are interesting –

Democrats and independents put more blame on COVID-19 spread for holding back economic growth in their area. Republicans mostly blame government restrictions to curb COVID-19 spread.

Nearly 80% of have heard some myth about COVID-19 or vaccines that they believe to be true or are not sure if it's true.

**Local TV news tends to be the most-trusted source of information on COVID-19 while network news, cable news and social media are least-trusted. But vaccinated adults trust local and most major news sources more than unvaccinated people do.**

For comparison –

According to the CDC – 59.1% of the U.S. population is fully vaccinated.  
According to the WA-DOH – 61.4% of the State population is fully vaccinated.

FROM THE WASHINGTON POST –

**PORTLAND, Ore. — Like most people in the United States, Michael Kerr got word of the new omicron variant on Thanksgiving Day, when the news surfaced on his wife's cellphone.**

**“We looked at it, and we were just like, ‘Not now,’ ” said Kerr, director of strategy for the Portland Bureau of Transportation. “I think everyone's just generally feeling malaise and just utter frustration. I think people are less scared than they are just tired.**

**“Everything's kind of in limbo again,” he added. “It feels like it's July all over again. And who knows what's going to happen?”**

**An eventual “end” to the coronavirus pandemic has been an article of faith since the virus first crashed ashore in the United States nearly two years ago. There is still no reason to doubt it will happen.**

**Powerful, protective vaccines and naturally acquired immunity will one**

day make this virus endemic, something akin to the flu, a part of the public health landscape.

But as the slow-moving crisis heads into its third year, with the new variant threatening to upend another holiday season, echoes of the past two years are unmistakable. International travel bans and quarantines? They're back. Older people scrambling for shots? Back. Personal risk tolerance calculations with each and every move? Also, possibly, on their way into our lives again.

The virus comes at us in waves, raising and dashing hopes as it ebbs and surges, or as scientists respond with countermeasures. Living that way is maddening and exhausting, experts say. Perhaps the third year of the pandemic calls for us to view the coronavirus as a long-term presence in our lives, not a foe that will be vanquished anytime soon. And behave accordingly.

The following story has a West Tiger connection as it's the location of the local Day Star TV station transmitter - -

## **Marcus Lamb, the Christian broadcaster who discouraged vaccines, dies from COVID-19**

December 1, 2021 8:46 PM ET

THE ASSOCIATED PRESS

Marcus Lamb, the CEO and founder of the conservative Christian Daystar Television Network who was outspoken against COVID-19 vaccines, has died at age 64 after contracting the virus.

DALLAS — Marcus Lamb, CEO and founder of the conservative Christian Daystar Television Network who was outspoken against COVID-19 vaccines, has died at age 64 after contracting the virus.

Daystar confirmed his death Tuesday.

"It's with a heavy heart we announce that Marcus Lamb, president and founder of Daystar Television Network, went home to be with the Lord this morning," the network said a tweet Tuesday. "The family asks that their privacy be respected as they grieve this difficult loss. Please continue to lift them up in prayer."

Lamb's relatives have spoken over the past month about his battle with the virus. His wife, Joni, said he had diabetes and was hospitalized after his oxygen levels dropped.

Lamb and Daystar — based in Bedford, Texas, in the Dallas-Fort Worth area — have promoted views opposing COVID-19 vaccines and restrictions to stop the spread of the disease. The

network's programs have featured vaccine skeptics and health care professionals who promote alternative COVID-19 treatments.

It's unclear whether Lamb received a COVID-19 vaccine.

In recent months, a number of prominent anti-vaccination Christian broadcasters have died from COVID-19. Radio hosts Dick Farrell, Phil Valentine and Marc Bernier, who were unvaccinated, all died after they contracted the virus.

The question that comes to my mind is – How many of these high-profile people have to die before their followers conclude that they have been getting their information from the wrong source?

Statistically, COVID-19 continues its tragic march – With now over 788,000 in this country alone deaths. Canada has lost over 29,000. Washington State has lost over 9,400.

This headline got my attention -

### **Four Radio Companies Sued For Airing Show That Enabled 'Fraudulent Investment Scheme'**

A lawsuit was recently filed against four, big name, radio groups who operate stations in Texas. Audacy, Emmis, SiriusXM and iHeart. Apparently, they aired an investment show that, according to the suit, caused several to lose a lot of money. Here's the kicker - The plaintiffs seek a jury trial and want the radio groups to be held liable for the millions of dollars of harm caused by their misconduct that they knew or should have known about.

I find this one very interesting. I know that many broadcasters air programs where the station includes a disclaimer that they are not endorsing or vouching for the contents of the program. The questions are – Did they do it in this case and will this keep them 'off the hook'?

Perhaps a related and timely question to ask is – What about broadcasters that air bogus and false information about Covid-19 vaccination etc. that leads to a person's death. Could they be sued or held liable? This will be worth watching.

The CMA Awards have come and gone, but a lot of questions remain....For instance – Why was the contribution of radio never mentioned. Usually, within winners acceptance remarks they will thank Radio for playing their songs...Apparently not this year. Apparently, the shows producers elected to not recognize the 2021 Broadcast Awards winners. I watched some of it...and it was pretty clear, from some of the performances, that Country is swiftly away from it's roots.

During this time of the year, we frequently hear about power being knocked out due to storms...But not often due to wire theft. But that's what took place in Puyallup recently when wire thieves knocked out power for 17,000 residents. Pretty brazen when the perps cut down a power pole to get to the wire. Another sober reminder that copper is still being stolen.

In California wildfire claims another broadcast station. This time in Fresno where KFRR went off the air and became an Internet only station. After the fire was out the station's transmitter site was relying on a generator. After 42 days, the owner decided to make the change. The fire forced a number of stations to alter operations, in some cases towers failed and transmitter buildings were destroyed.

In the case of KSJV's site was overrun by the wildfire with a tree coming down across one of their guy wires resulting in a very bent tower as you can see here -



The new Radio-ratings are out – Here are the highlights for Seattle in the 12+ Category –

KIRO-FM continues its winning ways with the #1 Slot

KZOK is close behind with their Classic Rock format.

KUOW is #3 continuing to prove that you don't have to play music to be popular.

At #7 – KOMO continues to show the power of the Spoken Word.

At the bottom of the top-10 list is KIRO-AM who continues to show that AM is not dead.

Looking down the road at Portland –

4 Stations are almost in a dead heat – KLTH the Classic Hits, KKCW (AC) KXL with News/Talk and KOPB with news talk round out the top 4. Again, showing how Radio listeners today are very much listening to the Spoken Word.

I often get asked to compare market size between Seattle and Portland. Here's an easy way to look at it from Nielsen's 12 + numbers > Seattle is Market # 12 with 4,042,000. Portland is Market # 22 with a population of 2,428,300. Just for comparison, Metro Vancouver, B.C. is about 2.6 Million, or slightly larger than Portland.

Saw this sign recently that I found unique – Somehow, I never would have connected the two.



KIRO-FM is getting a new auxiliary transmitter to replace their legacy Collins at Cougar Mt. The Collins was built back in the 1970's and originally went on the air when, then KNBQ, increased power in Tacoma to 100,000 watts. From there the transmitter was moved to West Tiger where it became the first FM station on the air from that site. The new unit, made by Gates Air, will be operational by years end. KIRO-FM, like a dozen others, have their main transmitters on West Tiger and their Auxiliary at Cougar, Mt.

As many of you know, I have a Dog named Yagi. My wife and I play a lot of Scabble – Recently as I went into the Kitchen for something, Yagi jumped into my chair to make sure there was no cheating going on.



Well, that's a wrap for this month – Here's my wish for a very Merry Christmas and a Happy New Year.

If you are un-vaccinated, for the good of all of us, get it done.

If you are vaccinated, get your booster.

Hope to catch you here next month in 2022

Clay, K7CR, CPBE

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