Hi Gang, Kent KBØRWI has created a large “Parking Lot” for all of the KAR newsletters from 1999 until now which is still under construction. Go to http://ksarrl.org/ and scroll to the bottom of my mug shot and click on “Parking Lot of KAR News” You can read them there and or save them to your computer. While there browse Kent’s pages for lots of great ham radio info. While U R at it, tell him TU.........

I will be sending out a Jamboree Special in a couple of days cuz KAR has been getting bigger every day, so watch for it.

◆ This video sure brings back memories of the 70s which for me was the peak of ham radio. My son got his license, WNØHTR and in a year was running 40 WPM in his head. For 10 years I stored and helped the club’s Novices set up FD. We had hundreds of Novices checking into our slow speed CW net. http://www.southgatearc.org/news/october2011/1970s_amateur_radio_promotional_films.htm

◆ ED DOYLE FROM MANHATTAN KS WON IT. OJ Orlin Johnson KØOJ Greely, Co http://freedom4um.com/cgi-bin/readart.cgi?ArtNum=133255

◆ Let there be light! http://www.wimp.com/lightenup/

◆ Please welcome Mike KDØPDS and Ken WØARO to the KAR readers group.

◆ Subject: SHUCKING EAR CORN AFTER COOKING - HA - WHAT A DEAL! This is a great tip for preparing fresh corn on the cob. http://www.youtube.com/watch?v=YnBF6bv4Oe4

◆ Don Post, KBØMJZ send this to us. I think we posted this several years ago, but we have many new subscribers, who deserve an opportunity to see this video. Thanks, Don!

This is the best tower climbing video I have ever seen. I was getting nervous just watching it. Don Post <http://www.koreus.com/video/reparer-antenne-540m.html> <SNIP> “LL”

◆ A ham radio pro-mo with Dick Van Dyke in it. http://www.youtube.com/watch?feature=player_embedded&v=5CVnzNNSsdU#!
**Links for Kansas hams!**  TNX to Kent KBØRWI

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<tr>
<th>Link Description</th>
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<tr>
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<td><a href="http://home.everestkc.net/orlan/#top">http://home.everestkc.net/orlan/#top</a></td>
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</table>

73, Orlan wØoyh UR KAR ed and ARRL Ks Ast. Section Mgr.  wØoyh@arrl.net

---

Hi Orlan. I enjoyed our visit this weekend. I enjoy coming to Salina, and it's a great hamfest. As I mentioned at the ARRL Forum, Kansas hams turn out better for the forums than most other conventions/hamfests.

I had a couple things I wanted to mention. Our Midwest Division newsletter now has a fixed link to the current version of the newsletter, that doesn't change from month to month. If you would like to add that link to the Midwest Division newsletter to your web site, I is >>>>>>>> [http://www.arrlmidwest.org/newsletter/newsletter.pdf](http://www.arrlmidwest.org/newsletter/newsletter.pdf)

Again, it was good to see you!  Keep up the good work.

73, Cliff KØCA
Hi Orlan and Kent. The KAR article is on page 4 of the November Midwest Division News, per the email which I sent through the ARRL List processor earlier today. Thanks for sharing the “story!”

73, Cliff K0CA

- - - - - - - - - - - -

Hi Orlan. Nice note you got from KD0PDS. He is subscribed to my Division news emails, so he would have received my email with the link to the November newsletter. I hope it helps spread the word about KAR and the service which you and Kent provide.

73, Cliff K0CA


Bob is at home but still not able to do much. Orlan

73 Bob Summers K0BXF ARRL SEC KS - RSUMMBXF@aol.com
Well this year is winding down. For November, it has been an interesting one so far, with heat, rain, snow, and the shaking of the earth. Now that the clocks have been set back an hour, leaves have fallen from the trees, and the temperature has dropped below the freezing mark at least once, Fall is here with Winter closing in on us. If you have not yet checked out your antenna systems, you may still have a few good days. The nights are getting longer and colder. A great time to do a little DXing beside the heater in the shack. Remember to mark your calendars for the first Thursday and third Tuesday of each month for 7:00 pm (1900) local time and check in to the KRAP net on 3940 KHz. We need your County represented. Let us know what is happening in your part of the State. Hope to hear you on one or both of the nets this next month. Happy Thanksgiving to all. Take time for family and friends, as we all have much to be thankful.

73

Joseph WDØDMV

Kansas RACES Officer

The Kansas Radio Amateur Preparness (KRAP) Net meets on the first Thursday and third Tuesday of each month at 1900 local time on 3940 KHz.

KRAP Net report for Tuesday Oct. 18, 2011

The following stations were heard:

<table>
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<tr>
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<th>County</th>
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<tr>
<td>KD7QOR</td>
<td>Leavenworth County</td>
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<tr>
<td>WØPBV</td>
<td>Riley County</td>
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<tr>
<td>NØKQX</td>
<td>Finney County</td>
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<tr>
<td>NØZBV</td>
<td>Republic County</td>
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<tr>
<td>KBØDTI</td>
<td>Linn County</td>
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<tr>
<td>KØEZR</td>
<td>Greeley County</td>
</tr>
<tr>
<td>WDØDMV</td>
<td>Brown County</td>
</tr>
<tr>
<td>AAØX</td>
<td>Miami County</td>
</tr>
</tbody>
</table>

8 Counties 8 QNI


The following stations were heard:
KBØDTI  Linn County
WAØCCW  Mitchell County
NØENO   Johnson County
AAØDF   Lyon County
NØZBV   Republic County
WDØDMV  Brown County (Portable)  Net Control

6 Counties  6 QNI

The Kansas Radio Amateur Preparedness (KRAP) Net meets on the first Thursday and third Tuesday of each month at 1900 local time on 3940 kHz.

Special Characters Alt xxx

Hi Orlan
Here are a few more Alt Key figures
Enjoy.

Ron WA0PSF
I didn’t put the slash zero because some email programs will not support the symbol
Alt Ø keys special characters

Alt 0216 = Ø
Alt 0188 = ¼
Alt 0189 = ½
Alt 0190 = ¾
Alt 0151 = — (Long Dash)
Alt 0174 = ®
Alt 0169 = ©
Alt 0153 = ™
Alt 0176 = ° (Degrees)
Alt 0162 = ¢
The First FCC Frequency Monitoring Station.

Some history from our neighbor to the north of Kansas! My brother and I got to tour it while it was still manned years ago. We had both had a QSO with one of the fellows working there and he gave us an invite.

Chuck KØBOG @ ARRL Hq    TU Chuck! We get gud stuff from U always.

The First Federal Radio Frequency Monitoring Station - and the Packard Radio Test Car

Japanese POW 1946

In 1946 four of us had the job of dismantling and packing a large communications system in Manila. We needed help with some manual labor and were provided with a group of Japanese POW’s who volunteered to work in order to get out of the POW camp. One of them indicated to me in his broken Japanese high school English that he was interested in radio and electronics and did that in the army. I showed him a U. S. army handie talkie and he examined it closely and exclaimed “marvelous engineering.” We had an interesting conversation considering the language problem. I often wondered if he went back to Japan and invented some of the things we use. I may even have contacted him in Japan later. (He seemed mighty glad to have survived the war!)

Don Mehl, W5BB
<donmehl@comcast.net>

LarrysList mailing list

Jamboree Follow-up

Following this newsletter will be a Jamboree Special in a couple of days with lots of photos, so watch your mail.
I am not sure what it is, but I am keenly aware of the start of Solar Cycle 24. As I have reached the decade of my 60s, I realize that I might not see many more of these 11 year cycles of great band conditions.

A great site to check from time to time is: http://www.solarham.com/ to get the low down on what the sun is doing these days. It is good from HF operation as well as VHF operators.

Since I have a tendency to write nostalgic, I remember my first sunspot cycle. I was in my teens in 1966, and 10 meters was hot, hot, hot! My main rig was a DX-40 and I had just become a General class operator. My Elmer, Ray Polly (K0JDB), told me to go to 28.500 and call CQ. I had not heard much on 10 meters, but I did what Ray told me to do. I could not believe what happened! People answered my call after call and soon I had filled up a log book and started on another. I have a lot of logs from those days.

Not only were these calls from stateside, but Europeans, Japanese, South Americans, and Australians all answered the calls. Just 40 watts of carrier controlled AM and a 10 meter dipole antenna at rooftop level. Amazing! CW was just as good as phone!

Several months later, I installed a very old three-element beam antenna that I had salvaged from across town. The beam had been up on a tower but the owner of the house was not a ham and had gotten the beam with the purchase of the house. I offered $25 dollars for it and he said to take it down. My Dad and I finally got it down and took it home. (This is a whole story by itself). What I had was the for-runner to a Hygain TH3. I think this beam was a “Duncan” and was made in Duncan, Oklahoma. The traps were the color blue and were coated with plastic that was flaking off due to ultra-violet radiation. More than a decade later, I purchased new traps from Hygain (the metal ones) and rebuilt this beam.

Dad and I mounted the beam on the roof of the garage using an old wind charger tower. The rotor was a rope tied to the front the beam. I think the beam was 30 foot off the ground. Ten meters and that beam made a whole lot of difference to my NC-57. Signals were strong and even 15 meters was great as well. I remember working a lot of DX in those years.

I have gone through several sunspot cycles, some of which I was very active and others that were so-so because I was making a living and climbing up the corporate ladder.

For all you “newbies” out there...now is the time to get on 10 meters and call CQ and work the world. You don’t need a beam or any kind of power. A dipole and 100 watt or even 10 watts will be good enough for you to work the world. It is hot-hot-hot!

The weekend of the CW World Wide SSB contest I was so busy I could not get on until Sunday morning and only for an hour. Ten meters is still amazing. I worked 43 countries in that hour.
including Saudi Arabia, Turkey, Qatar, Dodecanese, and many deep eastern European stations.

Also, use Logbook of the World. Keep track of how many states you have worked, how many countries you have contact, and chase the paper awards like DXCC, WAS, WAZ and WAC. Many DXpeditions are on the air these days from all over the world and they are very easy to contact using a very modest station.

Get on the air. Stop surfing the net for the ultimate ham radio site. Get on the air. Call CQ even if you think the band is dead. This goes for Six meters as well. Get on the air. The upper bands are going to be open all night long and you will be amazed at what you will work. And do not forget 40 and 80 meters as well. There will be times in the next coming years that those bands will be open world-wide as well.

Oh, and if you talk with ARRL Second Vice President Bruce Frahm, K0BJ, thank him for turning on the sunspots!

See you on the air.

Lee

---------------

In our day and age it seems that Common Sense is in short supply. If you don't have any Common Sense - get some Common Sense and use it. If you can't find any Common Sense, ask for help from somebody who has some Common Sense. Is Common Sense divine?

Common Sense is the image of the Creator expressing revealed truth in my mind. - John W. (Kansas)

Never interfere with anything that isn't bothering you.
Jim was born October 28, 1923 in Topeka, the son of Elliot and Marguerite (Long) Carriger. He spent his early years on the family farm just outside of Auburn with his parents, brothers and his grandmother, Emma D. Carriger.

He graduated from Washburn Rural High School and attended Washburn University and Northern Illinois College in Chicago. While attending college, he was employed by the Curtis Company in Chicago as a factory representative.

He served as an Automatic Rifleman in the Army during World War II with the Americal Division, 132nd Infantry, 2nd Battalion, Company E. This was the first unit to engage the Japanese in offensive combat, starting at Guadalcanal, moving through the Solomon Islands, Philippines, and occupying Japan. He received numerous awards for his service including the Bronze Star.

He joined the Topeka Fire Department in 1948 and retired as First Assistant Chief after 33 years of service. He was assigned to the Topeka Police Department as a Major the last two years of his service, implementing the 911 Emergency calling for Topeka and Shawnee County.

He served as First Vice President and President of the Associated Public Safety Communications Officers Incorporated, Kansas Chapters. He was awarded an honorary lifetime membership in this organization. He was a member of the American Legion and the VFW.

After retirement, he and his wife enjoyed traveling, particularly to Sonoma, California and gave insight for the beginning restoration of his great grandfather's estate, Nicholas Carriger. The estate is now on the National Register of Historic Places.

Jim married C. Gwendolyn Henderson on October 28, 1949. She died November 11, 2008. Survivors include son, Steve Carriger; daughter, Judith Carriger, both of Topeka; grandson, Justin Kearney and wife Marti, Scranton; great grandchildren, Kole James and Taryn Marie Kearney; and 11 nieces and nephews. He was also preceded in death by brothers, Lewis Carriger and Dr. William A. Carriger, Sr.

He will be greatly missed.

Vince Weber, WBØEVD
<vince.weber@gmail.com>

LarrysList mailing list

QKS – The Kansas CW Net - of the ARRL NTS

Net operated daily at 7 and 10 pm on 3547 kHz. 7 pm is the out going tfc into the NTS system and in coming at 10 pm. You are welcome to check in with or without tfc. Our manager is

James, NBØZ - net mgr.
My teacher asked what my favorite animal was and I said, "Fried chicken." She said I wasn't funny, but she couldn't have been right because everyone else laughed.

My parents told me to always tell the truth. I did. Fried chicken is my favorite animal.

I told my dad what happened, and he said my teacher was probably a member of PETA. He said they love animals very much. I do too...especially chicken, pork and beef. Anyway, my teacher sent me to the principal's office. I told him what happened and he laughed, too. Then he told me not to do it again.

The next day in class, my teacher asked me what my favorite live animal was. I told her it was chicken. She asked me why, so I told her it was because you could make them into fried chicken. She sent me back to the principal's office. He laughed and told me not to do it again.

I don't understand. My parents taught me to be honest, but my teacher doesn't like it when I am.

Today my teacher asked me to tell her what famous person I admire most. I told her, "Colonel Sanders." Guess where I am now

Dan WØKKS
Tom WØEAJ beginning his experiments in electricity.

◆ THE HAIRCUT

Blessed are those that can give without remembering, and take without forgetting.

One day a florist went to a barber for a haircut. After the cut, he asked about his bill, and the barber replied, 'I cannot accept money from you, I'm doing community service this week.' The florist was pleased and left the shop. When the barber went to open his shop the next morning, there was a 'thank you' card and a dozen roses waiting for him at his door.

Later, a cop comes in for a haircut, and when he tries to pay his bill, the barber again replied, 'I cannot accept money from you, I'm doing community service this week.' The cop was happy and left the shop. The next morning when the barber went to open up, there was a 'thank you' card and a dozen donuts waiting for him at his door.

Then a Congressman came in for a haircut, and when he went to pay his bill, the barber again replied, 'I can not accept money from you. I'm doing community service this week.' The Congressman was very happy and left the shop.

The next morning, when the barber went to open up, there were a dozen Congressmen lined up
waiting for a free haircut.

And that, my friends, illustrates the fundamental difference between the citizens of our country and the politicians who run it.

From my friend Pat

◆

◆ “People often say that motivation doesn't last. Well, neither does bathing - that's why we recommend it daily.”~Zig Ziglar

◆ To write with a broken pencil is pointless.

When fish are in schools they sometimes take debate.

A thief who stole a calendar got twelve months.

When the smog lifts in Los Angeles, U.C.L.A.
Phyllis' mother is 94 and not doing to well so we are leaving for Topeka Wednesday AM; her mother is in a rest home in Alma, KS, 30 miles west of Topeka, where I was raised on a farm.

Concerning Rock Bottom, the nice thing about living in the middle of nowhere is most folks don't like it!!!

A friend of mine from Effingham, IL was here to visit the last two weeks of August. He worked for me at the Newton Power Plant as an Instrument Tech, but has a degree from SIU in Fine Arts, Photography. He worked at the power plant because the only way he could make a living in photography was in journalism and didn't like that. We did a reverse of Tom's trip to Rock Bottom. Southeast of here, about 60 miles, is a place called Adobe Town Rim, and Bob wanted to do some photo work there (a badlands kind of place). I hadn't been there in 20 years; it took us 5 hours to get there, through unknown desert, sober, and made it just in time for sundown, etc. Coming home was uneventful as I knew where I was by that time!!!! Bob is really going great, winning awards at art shows, etc., so it was worth it. A couple days later we took the XYLs and went back for an uneventful photography and picnic outing!!! I had a 2-meter rig along on both trips, so we were never out of touch with civilization. Our repeaters reach 100 miles in almost every direction.

I read the KAR every month and enjoy Tom's articles. I have an old Zenith tube type radio, from Phyllis' dad, that I've redone the wood on and have new tubes, capacitors, etc. for it in a drawer. I've never quite gotten around to redoing it electronically though.

Cecil NØCY Cecil now lives in Wyoming.

Think this is one everyone will like -- stay with it to the end to see expression on Momma robin's face. I can't imagine anyone of any age not enjoying this! The video clip in the link below is amazing. An American robin lays her four eggs in a hanging basket and the home owners set up a camera to film the results. To see it all, click here.

http://vimeo.com/moogaloop.swf?clip_id=9479342&server=vimeo.com&show_title=0&show_byline=0&show_portrait=0&color=00ADEF&fullscreen=1

LarrysList mailing list

http://sciencedemonstrations.fas.harvard.edu/icb/icb.do?keyword=k16940&pageid=icb.page80863&pageContentId=icb.pagecontent341734&state=maximize&view=view.do&viewParam_name=indepth.html#a_icb_pagecontent341734

Orlan,

Please put me on your KAR Mailing list!

Mike KD0PDS TU 4 asking Mike. Gotch U on!

There's another Hams in Space Video on YouTube:
This one is less clowning around, and a bit more instructional. This one is about Antenna Options for Hand Held Satellite Work.

Enjoy!

Randy Schulze, KDØHKD
Kansas City, Missouri
<rschulze@everestkc.net>

LarrysList mailing list

◆ I would enjoy receiving the KAR, thanks
Ken Sanders
W0ARO
Berryton, KS  Welcome aboard Ken!  Orlan

◆ Larry, have you seen this Video? If not you might want to pass it on to LL.

1970s Amateur Radio promotional video:


Mike Bogard, KD0FW
<k0fw@att.net>

LarrysList mailing list

◆ >From Doug WA0EMX, Raytown, MO

Extracted from <http://www.qth.net>
Elecraft mailing list, Nov 2011 archive
Thread: KH3 PERMISSION TO LAND

---------------------------------------------

KH3 TO BE ACTIVATED. USAF has finally granted me 10 days at end of Jan first of Feb to land at Johnston Atoll...will be a solo dxpedition.

Frequencies will be 14036, 14236, 18090, 28450, 28036.
One operator...me. RTTY, PSK31, AND PACTOR avail upon request.

QSL will be via KH6CG; self-addressed stamped envelope is required, as this dxpedition is being fully funded by my social security. Donations appreciated.

If you don't change direction you WILL arrive exactly where you're headed!!
Tom's Key Strokes - WØEAJ

Denver, Co.  Displaced Kansas Neighbor
and very gud friend.!

Splendid article - this is one we SHOULD see in the news.  (Tom is referring to this article sent earlier, <http://www.stamfordadvocate.com/default/article/Angela-Carella-Hams-here-when-all-else-fails-2187431.php>)

Reading on, about the Cold War times....

In 1965, I was stationed at the Fleet Anti-Submarine Warfare Center in San Diego... I was a Radioman 2nd. Class in the USN, at the time - one evening, at our club station (W6DCM - different license holder, now), I called CQ and got UA0KKC (it's no longer around), with Ivan at the mic.  After a time of the usual signal reports and such, we asked what each did in their lives - I said that I was US Navy radio operator and he answered that HE ALSO was a Navy radio operator in the Soviet navy.... then we discovered that his station was at the SUBMARINE base at Vladivostok, and I of course was his DIRECT opponent.

Yes... we really DID laugh at that, and I shall never forget what he said (that I heartily agreed with):

"Thomas, isn't it shame that we're supposed to hate each other?"...... "Yes, Ivan, it is - someday we'll share a vodka, dah?".... "Dah, he replied"

dit dit dit dah dit dah

Tom Dailey, WØEAJ
<daileyservices@qwest.net>
LarrysList mailing list
With reference to a LIFETIME license question on "Larry's List" (an Amateur reflector out of Kansas City), I posted this - what do you guys think?

TC

----- Original Message ----- 
From: "TC Dailey" <daileyservices@qwest.net>

> Perhaps it's time to enact a unique "grandfathering" statute; IF you've
> held a license of GENERAL or better, and you've held it for at least 10
> Years (with no pink tickets or violations of any kind), AND you're over
> the age of 62, you could apply for a LIFETIME license. This license could
> be upgraded to EXTRA if applicable, but the EXTRA Class would have to be
> held for a standard period of validity, at which time IT would become a
> LIFETIME, as well. There would be a one-time fee of $35.00 to cover
> administrative costs.
> Whaddya think?
>
> Tom Dailey
> WØEAJ
> Licensed since 1962

UNBREAKABLE Power Transistor - they aren't kidding!

See this video - http://www.youtube.com/watch?v=8ziYqjMQGEQ

Tom

http://www.contelec.com/lfvlf_installations.htm

Okay, you "lofers", take a look at these xmtrs, built by
Continental Electronics. The pictures also provide the
frequencies. Of special interest to me, is Big Jim Creek,
Washington... I used to copy VLF CW bcsts from them on 12 kcs+,
while a Navy radioman. I was told by another RM on
diesel/electric boats (subs), that in the early 60's, a
sub at periscope depth (about 60 feet) with NO antenna
showing, 100 nm N. of Australia, could copy this station 5-9-9.

Tom

http://reel2reeltexas.com/catIndex.html

Catalog covers (and tape recorder pages) from ALLIED RADIO, Burstein-Applebee, LAFAYETTE, and others.

Tom
The tube featured on this page is a Western Electric 320A. They were used in a custom high power transmitter built by James O. Weldon of Dallas, Texas, for XERA, a Mexican station along the border with Texas.

You'll notice the tube is taller than the doorway next to it, approximately 8 feet tall. The text from the two plaques (on either side of the tube) contain the attached text, "carefully transcribed" by David Hershberger, who also kindly supplied the picture.

**WESTERN ELECTRIC TYPE 320A**

**HIGH POWER TRIODE VACUUM TUBE**

Eight of these tubes were put into service in 1938 in the 500 kilowatt transmitter, XERA, at Ciudad Acuna, Mexico, designed by Jim Weldon.

The tube was developed by Bell Laboratories in 1937. The design engineer was Doctor H. Eugene ("Dick") Mendenhall, who was present at the site during initial tests.

The high efficiency "Doherty" linear power amplifier was used in each of the two 250 kilowatt amplifiers which were parallel combined.

Mr. William H. Doherty inspected the installation about a week or so before preliminary testing started.

Only nine of these tubes were ever built and no tubes ever failed in service nor during the four years operation which followed before the station was closed down. It has a "bright tungsten" filament (no thorium).

A crack in the lower glass was found to have occurred in one tube during the day's idle period and none of the Mexican janitors could remember hitting it with a broom handle.
Weldon was born in Canton, Missouri. He attended Culver-Stockton College where his father taught. His early interests included radio. After studying at the University of Nebraska, he took full time jobs as a radio station engineer from 1927-1935, beginning in Topeka, Kansas.

At KFKB, Milford, KS, Weldon became associated with Dr. John R. Brinkley, who sent him to Villa Acuna, Mexico in order to increase the power of his station, XER, to 100 kilowatts. In 1938, the station (now XERA) was increased to 500 kilowatts, only the second such station in the western hemisphere. XERA, was the first to use the "Doherty Amplifier" at this power level.

In 1940, Weldon was consulting the Federal Telephone and Radio Corporation, designing and building several of the 50 kW radio stations in the New York City area.

Following WWII, he became a partner with Lester Carr in doing antenna design and general practice before the FCC. Carr specialized in super-power antennas and Weldon in high power transmitters. In 1946, he arrived in Dallas, and organized what would become Continental Electronics. The current facility was opened in 1951.

One of the first projects was a 1 megawatt MW transmitter (105-B) developed in competition with RCA for the USIA. The transmitter was installed in Munich.

Weldon retired in 1988, but continued visiting the plant right up until his death.

--- The picture and biographic information was adapted from The Continental Courier of May, 1993

---

**Tube Data Sheet**

**320A Vacuum Tube**

The 320A Vacuum tube is a 3 element water cooled tube designed for use as an oscillator, modulator, or amplifier at the higher power levels and high frequencies.

- Filament ratings: 35 volts at 435 amperes
- Average thermionic emission: 90 amperes
- Characteristics at 18 kV plate voltage and 8 amperes plate current
  - Amplification factor: 30
  - Plate resistance: 965 ohms
  - Transconductance: 31,100 micromhos
- Maximum plate ratings:
  - maximum plate voltages:
    - 12.5 kV modulated
    - 18 kV non modulated
    - 20 kV rms AC
  - current: 15 amps DC
  - dissipation: 150 kilowatts
  - Maximum grid dissipation: 2 kilowatts

The 320A vacuum tube must be mounted vertically, with the filament terminal end down. A plumb bob should be used for vertical alignment.

When a standard socket or mounting is not provided the following mounting suggestions should be adhered to. The tube should be supported from the under side of the upper bulged section of the water jacket. Care must be taken not to deform the water jacket by clamping.