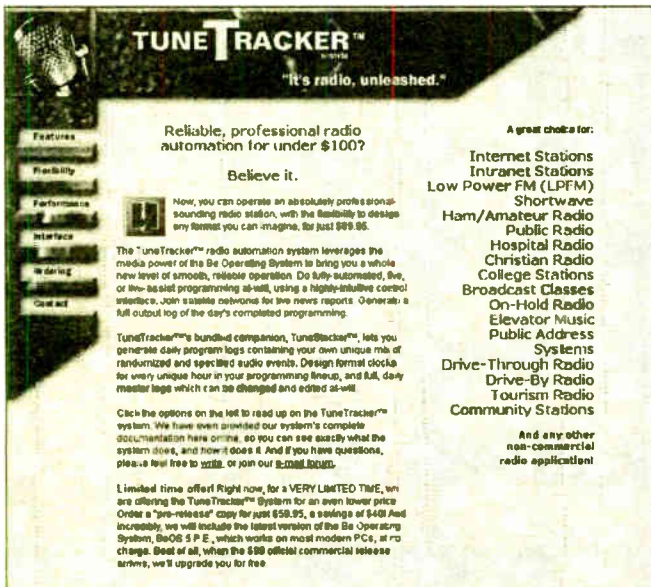


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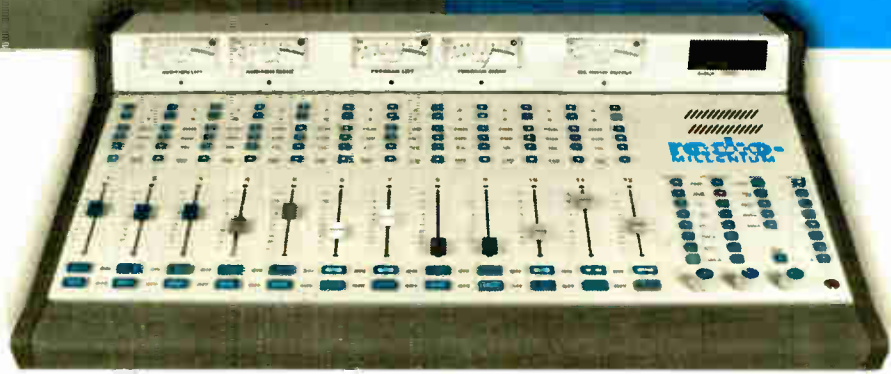
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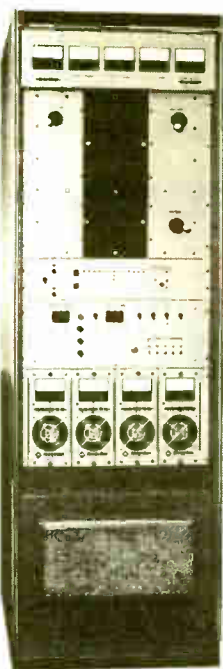
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# In the Public Interest

## Broadcasting 101 – “The Public and Broadcasting”

By Ken and Kelly Orchard

E-Mail: [PIFILE@aol.com](mailto:PIFILE@aol.com) Phone: 760-243-4733



The month of March had us on the road once again in the RV. Our recent affiliation with California Broadcasters Association has given us a great opportunity to work with television stations as well as radio stations.

During one of our recent “Alternative Inspection” visits, it became evident that many stations are not aware of “The Public and Broadcasting” manual, published by the FCC, that came out in June 1999. This manual, produced for the benefit of the general public, provides a brief overview of the FCC’s rules and regulations for broadcast radio and television stations.

The Public and Broadcasting Manual also explains how broadcast stations are licensed and their obligation to serve the local communities in their City of License.

This manual also describes in some detail the Public Inspection File, which contains documents relevant to the station’s operation. “The manual’s purpose is to provide information to help you [the public] encourage stations to provide high quality broadcasting service.” The “Public and Broadcasting” manual was developed for the benefit of the general public.

### AN INFORMED PUBLIC PLAYS A VITAL ROLE IN HELPING STATIONS SERVE THE LOCAL COMMUNITY’S NEEDS

The FCC asks the public to be involved by contacting their local station about concerns regarding the programming or other matters related to the stations. The FCC also wants the public to inform them about the stations.

Station Managers should be informed about “The Public and Broadcasting Manual,” as it is a required document for your public files. You can access this document from the FCC’s website at [www.fcc.gov](http://www.fcc.gov). In the inquiry section, type in “Public and Broadcasting Manual.” It’s about 20 pages, so it will take time. If you need to call the FCC, dial 1-888-CALL FCC.

The “Public and Broadcasting Manual” gives the public information about programming concerns and how to address them. It explains that, “Broadcasters, not the FCC or any other government agency, are responsible for selecting all the material they air.”

#### The FCC Cannot Censor Broadcast Material

The Communications Act prohibits the FCC from censoring broadcast matter and, therefore, the FCC’s role in overseeing the content of programming is very limited. They are authorized to fine a station or revoke its license if it has aired obscene language, broadcast indecent language when children are likely to be in the audience, broadcast some types of lottery information, or solicited money under false pretenses.

This is where the public can get involved with their concerns over programming. For example, if someone is driving their kids to school, and the “Morning Zoo” airs something that they feel is inappropriate material for its format, which caters to younger listeners, they can write to the FCC. They are also encouraged to write to the station about the matter, describing the situation they heard on the air. Remember the FCC does have the right to fine that station or even revoke their license.

The purpose of the FCC’s “Public and Broadcasting Manual” is to give the public a list of what should be in the Public File and instructions for how to register a complaint.

It also can assist managers and owners, as you can report to the FCC interference problems, as well as complaints about a competing station that isn’t following the rules.

The FCC encourages people to write directly to the FCC, as well as the station. The following information should be included in a complaint:

- 1) The call letters of the station.
- 2) The city and state where the station is located.

(Continued on page 4)



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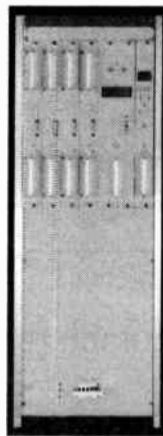
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## **In the Public Interest**

**Broadcasting 101 – “The Public and Broadcasting”**

*Continued from Page 3*



3) The name, time, and date of the specific program or advertisement in question.

4) The name of anyone contacted at the station (if applicable).

5) A statement of the problem (as specific as possible) together with an audio, or video tape transcript of the program or advertisement, if possible.

A person must include their name and address, if they would like information on the final disposition of their complaint. However, they may also request that they receive confidentiality. The FCC prefers that they submit complaints in writing, although a person may submit complaints, that are time-sensitive, by telephone – especially if they involve safety. This could be about the transmitter site for example. Perhaps someone has noticed that the lights on the tower have been out for weeks, or the fence around the tower is blown over and kids could climb the tower. They could contact the FCC about this.

### **The Public Can File a Petition to Deny**

Now this is really interesting. The FCC states that in addition to filing a complaint, the public can also file a Petition to Deny an application that a station has filed, such as a license renewal application.

The FCC rules require all Radio and TV stations, and applicants for new stations, to maintain a file that is available for public inspection, containing documents relevant to the station's operation. The station must make its Public Inspection File available to all persons, during regular business hours.

The FCC is obligated to give the “public” information about the licensing of broadcast stations. Broadcasters are obligated to serve the public. The public has the power and authority to file complaints on stations they believe are not serving the interest of their community. Station managers and owners have an obligation to educate themselves about their requirements to hold an FCC license.

### **NAB Report**

Our next article will be a report on what we learn at the National Association of Broadcasters convention in Las Vegas. Yes, we are planning our annual visit to the convention. And, unlike most broadcasters, we will not spend all our time checking out the latest technology or trends (although we do enjoy it). We will focus mostly on any and all areas of FCC issues, so we can better serve you.

If you are planning to attend, we would recommend that you be sure to go by the NAB store and find anything you can on Public Files and FCC Compliance. Also, look into books about engineering, and of course pick up all the free handouts.

Orchard Media Services is dedicated to being FCC Compliance Specialists. We're here to help broadcasters not only maintain compliance with the FCC, but also to keep accurate records and public files in order to protect your license.

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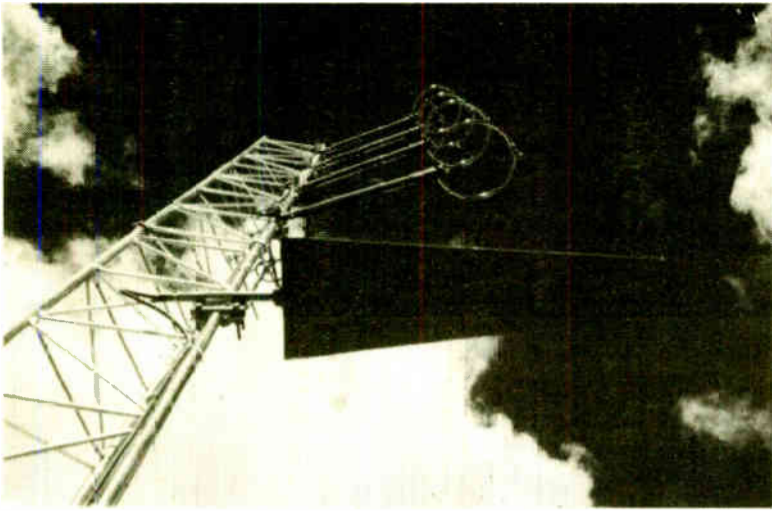
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MP-3	\$980	0.8Kw
MP-4	\$1,280	0.8Kw
MP2-4	\$1,820	2Kw
MP3-5	\$2,270	3Kw
MP3-6	\$2,740	3kw

### FM Antennas Low power circular polarization

GP-1	\$350	2Kw
GP-2	\$1,350	4Kw
GP-3	\$1,900	6Kw
GP-4	\$2,600	6Kw
GP-5	\$3,150	6Kw
GP-6	\$3,700	6kw

### FM Antennas Medium power circular polarization

SGP-1	\$690	4Kw
SGP-2	\$2,690	8Kw
SGP-3	\$3,595	10Kw
SGP-4	\$4,500	10Kw
SGP-5	\$5,300	10Kw
SGP-6	\$6,100	10Kw

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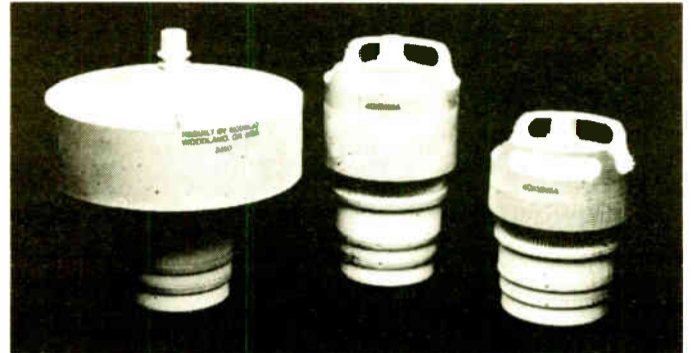
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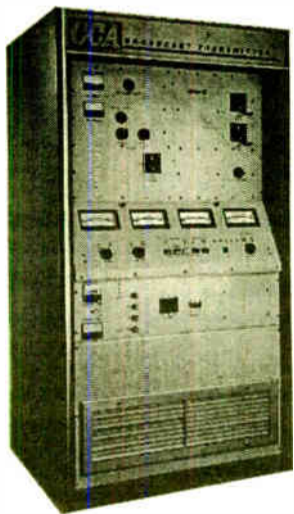
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## State of the Art

### Volcano Effect – When the Obvious Isn't So Obvious



By Chip Morgan — President of CMBE Inc.

E-Mail: [Chip@cmbe.com](mailto:Chip@cmbe.com) Phone: 800-801-2623

We get involved in a lot of interesting projects, where facilities don't work quite as well as expected for one reason or another. This is the story of one such project.

### I Can See It But I Can't Hear It

A major FM antenna manufacturer asked us to work with a customer who had just installed a new antenna at their Class-B FM station that "wasn't working right." The manufacturer had worked with the station to go through all the normal checks and nothing seemed to be wrong with the antenna. The station reported that there was just "no signal" at the target city, located less than 15 miles away. The antenna was on a tower on the side of a volcano in Hawaii. The station said that they could see the city clearly from the base of the tower.

### Good Coverage Was Predicted 15 Miles Out to Sea

A quick look at the predicted signal for the facility showed that the F50:50 70dBu/m contour was located some 15 miles beyond the target city out in the ocean. By all rights, there should have been 80 or more dBu in the city . . . enough to work inside almost any building. But you could barely get the station on a car radio.

### The Tower Was As Close As It Could Be

Research showed that the site was as close as it could be to the target city, while maintaining coverage of its city of license, which was farther up the volcano in the opposite direction. A map showed good line-of-sight to almost every point in the target city. There was no significant interference from other stations, including blanketing, co-channels, adjacent channels or intermodulation. Point-to-point analysis, using Longley-Rice methodology, showed adequate signal in the market. We could only see one potential problem, but it was theoretical and had to be verified. Do you think you know what it was?

### We Had to See For Ourselves

When we told the station what we thought the problem was, they were surprised. Apparently nobody else had come to the same conclusion. We arrived in the market with test gear, maps and a plan. First we inspected the antenna installation to verify that it was OK. The 4-bay antenna and line swept fine, indicating that it exceeded specifications. The transmitter was checked and it was also fine. The tower was new, was plumb and was well installed. We measured a series of points about a mile away from the tower and the signal was very close to the predicted field strength at that distance and elevation. It seemed that the antenna and site were performing the way they should be.

### What Could Stop the Signal?

An obvious first thought was that a tower high on a volcano could be "overshooting" the market. After all, there was no beam tilt in the antenna design. But 3-D modeling of the pattern showed that predicted signal level below the main beam was sufficiently strong to serve the market. The close-in field measurements verified it. The station had mentioned that there was a high concentration of metal in the ground, since it was an active volcano. They referred us to studies that indicated strange electromagnetic disturbances around active volcanoes and wondered if that could have something to do with it? We saw nothing unusual except an area with heavy wet vegetation about half way between the site and the target city.

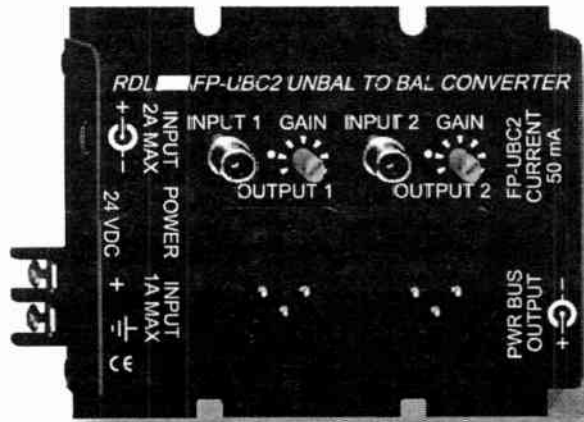
### The Predictions Were Wrong!

Since we had verified that equipment was operating correctly, we needed to identify how much actual signal was reaching the city. We used what was then (1996) cutting edge technology that combined differential GPS with a high speed scanning field strength meter that fed thousands of measurement points into a PC as we drove around the city. We compared the measured signal to the predicted signal at each measurement point and found that the actual signal reaching the market was well below the

(Continued on page 9)



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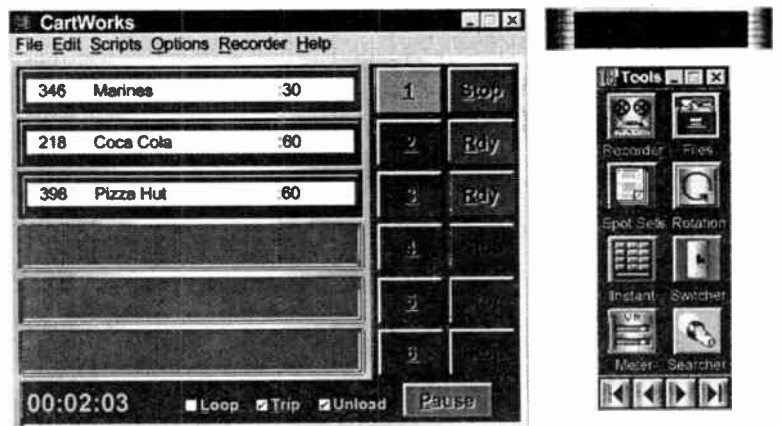
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12:23:13	V026	Voice Track 26		00:12			VTK
12:23:25	DALIVE	SPOT SET		03:00			I COM
12:26:25	J011	Jingle / Fast		00:06			Jln
12:26:31	M0713	Listen To Her Heart	Tom Petty	02:48	:11		C MUS
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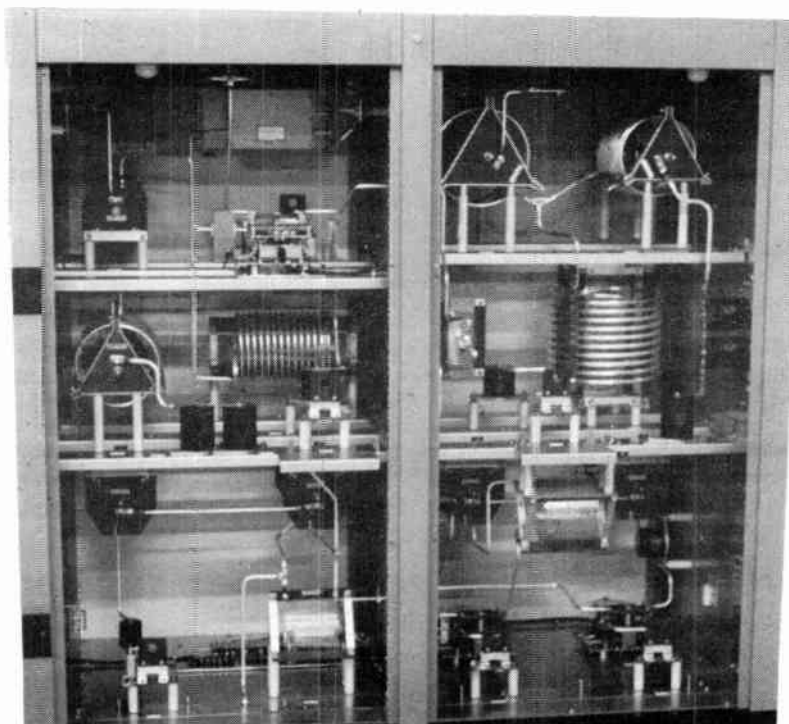
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# State of the Art

Volcano Effect – When the Obvious Isn't So Obvious



Continued from page 6.

predicted signal, using standard point-to-point methodology for FM in the US at the time. Then we compared the actual measured signal to the predicted signal using several other prediction methods that were in common use outside of the US. Those that took into account the particular problem that we were sure was causing the effect, predicted substantially lower signal levels.

## How to Get The Station Heard in the City

though there was "good" line of sight. This caused *extreme* attenuation of the signal path – far beyond what standard radio planning systems predict. It's a very unusual and interesting phenomenon that we now fondly call "The Volcano Effect." RG

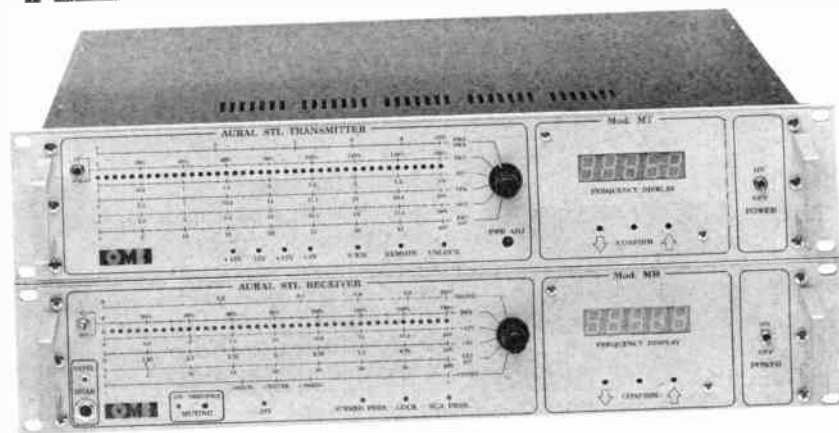
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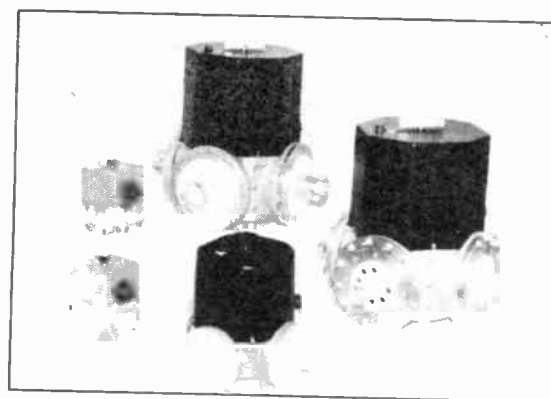


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Provides remote crystal/transponder selection for the Scientific Atlanta, Comtech/Fairchild

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Harris MW1	1976	1 kW	FM Xmitters
Harris MW1A	1981	1 kW	
Harris MW1A	1981	1 kW	
Collins 828C-1 (314R)	1981	1 kW	
CSI T-5-A	1980	5 kW	
Continental 315R-1	1982	5 kW	
Collins 828E-1	1977	5 kW	
Harris FM-10H/K	1974	10 kW	
Henry 6000D	1994	6 kW	
Collins 830E	1967	5 kW	
Continental 814J, Solid State	1994	3.8 kW	AM Transmitters
Harris FM-2.5K, Single Phase	1980	2.5 kW	
Harris FM-2.5K, Single Phase	1984	2.5 kW	
Collins 831D, Single Phase	1976	2.5 kW	
RCA BTF-1E1	1978	1 kW	
Harris FM-1K	1981	1 kW	
Harris FM100K Solid State	1988	300 W	
QEI FMQ 30,000B-1	1995	30 kW	
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## LPFM Digest

### Automate for Windows

By Leo Ashcraft — *MBC Consulting*

E-Mail: [engineer@mbradio.org](mailto:engineer@mbradio.org) Phone: 800-219-7461



The long awaited version of Automate for Windows has finally been released! Our consulting firm is one of the proud Beta and Alpha testers of this great software. While Auto-Mate is totally new to the Windows™ platform, it is by no means a newcomer to the digital automation industry.

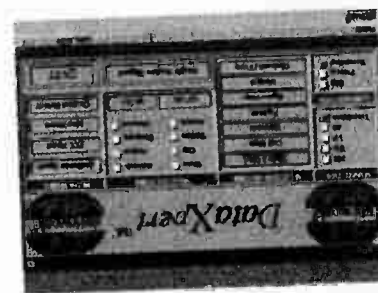
Auto-Mate Systems was founded in 1994 by a small-market independent broadcaster. The origin of Auto-Mate goes back to 1993, when even basic automation systems cost thousands of dollars. In 1994, their first product was released and was the lowest cost cart replacement/music-on-hard-drive system ever introduced. Auto-Mate systems was a leading pioneer in the affordable digital revolution. In 1995, they introduced a satellite automation system.

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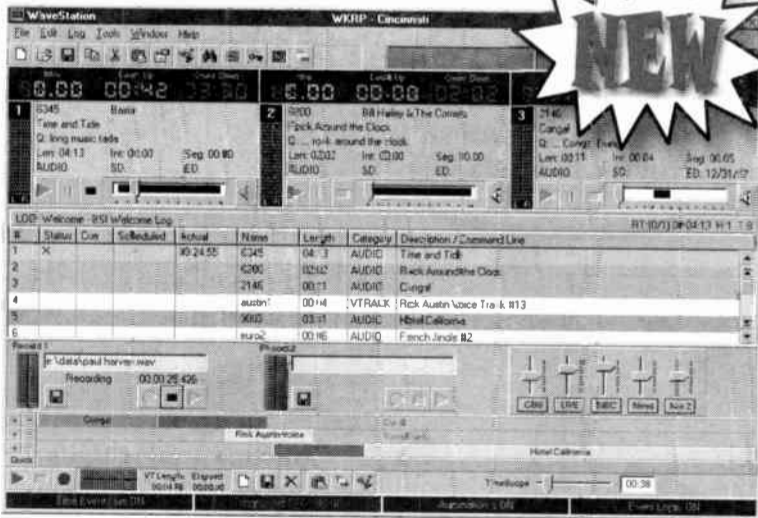
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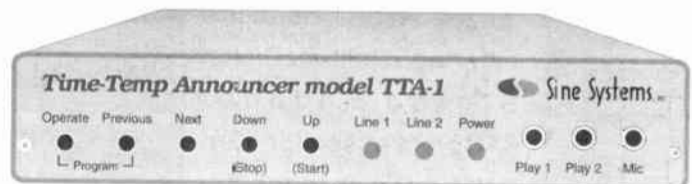
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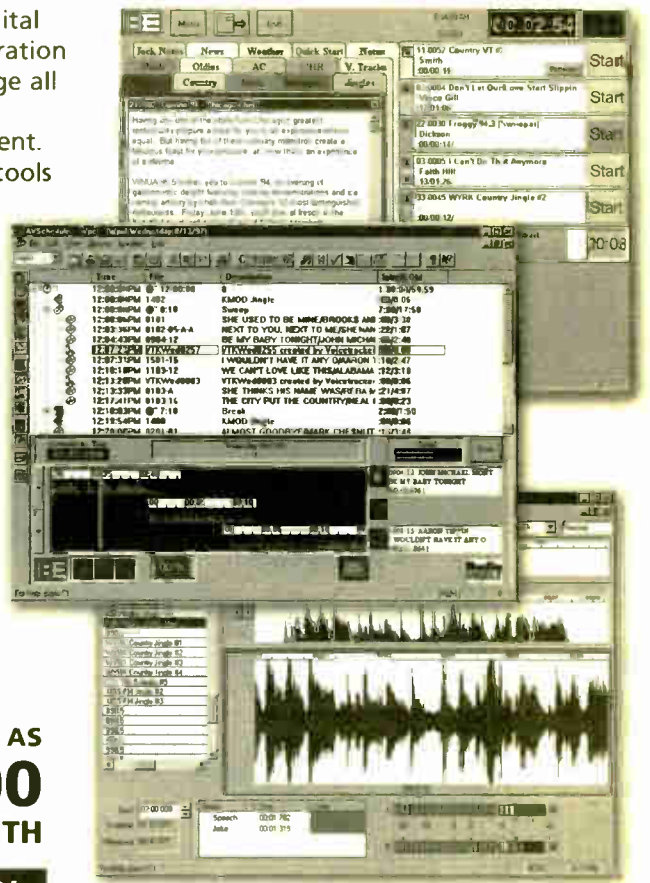


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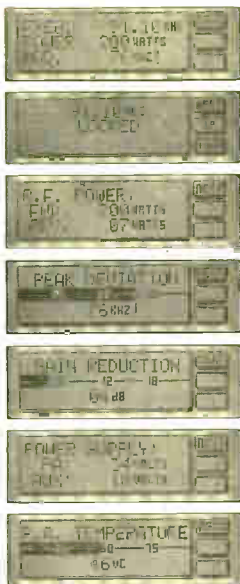
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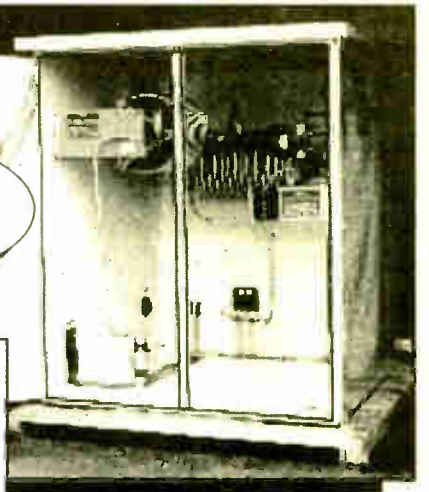


## AM ANTENNA SYSTEMS

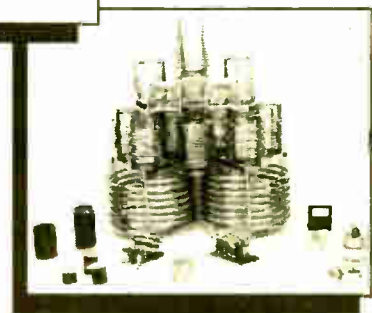
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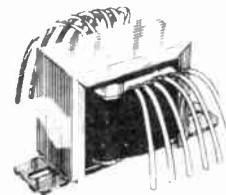
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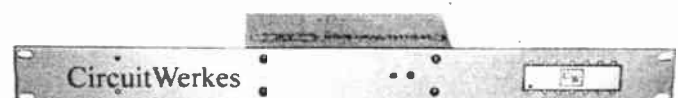
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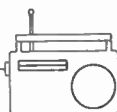
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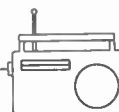
### Cart Machines

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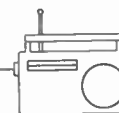
### Consoles

Consoles and Mixers



### Generators

Stereo, SCA, RBDS, Tone



#### Spotmaster Model 5300

Single mono cart recorder. No manual.  
CONDITION: Good PRICE: \$300  
CONTACT: David Nuechterlein PHONE: 517-686-9341  
Almake Auto, 6130 S Dehmel Rd, Frankenmuth, MI 48734

#### Broadcast Electronics Model 900-5304-011

Triple mono cart player. White color, no manual.  
CONDITION: Good PRICE: \$390  
CONTACT: David Nuechterlein PHONE: 517-686-9341  
Almake Auto, 6130 S Dehmel Rd, Frankenmuth, MI 48734

#### Spotmaster Model 5302A

Mono, triple deck, cart machine. Good for parts or repair.  
CONDITION: Call PRICE: \$75 or offer.  
CONTACT: David Nuechterlein PHONE: 517-686-9341  
Almake Auto, 6130 S Dehmel Rd, Frankenmuth, MI 48734

#### Spotmaster Model 5304B

Triple deck, stereo cart machine. No manual.  
CONDITION: Good PRICE: \$390  
CONTACT: David Nuechterlein PHONE: 517-686-9341  
Almake Auto, 6130 S Dehmel Rd, Frankenmuth, MI 48734

#### Arrakis Model 12,000

Console w/ 10 line & 3 mic inputs. P.S., spare connectors.  
CONDITION: Excellent PRICE: \$2,200 or B.O.  
CONTACT: Andy Struiksma PHONE: 360-354-5117  
KCCF Radio, 5538 Imhoff Rd, Ferndale, WA 98248

#### Russco Model 505M

5-channel mini audio console. 1-mic/4-line/VU. No manual.  
CONDITION: Call PRICE: \$75 or offer.  
CONTACT: David Nuechterlein PHONE: 517-686-9341  
Almake Auto, 6130 S Dehmel Rd, Frankenmuth, MI 48734

#### Collins Model 12Z

Remote amp/mixer. Late 1930's. All knobs/meters/tubes work.  
CONDITION: Call PRICE: \$300 or B.O.  
CONTACT: Don Mussell PHONE: 831-420-1571  
BESBD, 415 Emerald Forest Ln, Bonny Doon, CA 95060

#### Audiotronics Model 340-560

Stereo sliders.  
CONDITION: Call PRICE: Call for price.  
CONTACT: John Price PHONE: 214-321-6576  
Price Recording, Dallas, TX 75228

#### Modulation Sciences Model SCA-186

SCA generator, tuned to 67 kHz, never been installed.  
CONDITION: New PRICE: \$3,000  
CONTACT: Don Smith PHONE: 580-482-1450  
Altus Radio, 212 West Cypress, Altus, OK 73521

#### Moseley Model SCG-8

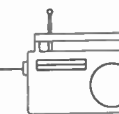
Subcarrier generator.  
CONDITION: Good PRICE: \$350  
CONTACT: Jim Sute PHONE: 541-779-1550  
Marathon Media, 1438 Rossanley Dr, Medford, OR 97501

#### CircuitWerks Model SEN6

Subaudible tone encoder. 25, 35, and 25/35 combo tones.  
CONDITION: Call PRICE: \$250  
CONTACT: Steve Scarborough PHONE: 877-722-1031  
Bay Country Broadcast, 7117 Olivia Rd, Baltimore, MD 21220

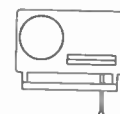
### Mics & Speakers

Mics, Speakers, Headphones



#### Electro-Voice Model 654A

**Fostex Model 5030**  
Price Recording, Dallas, TX 75228  
CONTACT: John Price PHONE: 214-321-6576  
CONDITION: Call PRICE: \$195  
Stereo power amplifier.  
**Crown Power Line One**  
Price Recording, Dallas, TX 75228  
CONTACT: John Price PHONE: 214-321-6576  
CONDITION: Call PRICE: \$40  
Solid state microphone pre-amps.  
**Ampex Model**



**Audio Amps, Power & Pre-Amps**

**Best Power Model 1425A Fortress**  
Rack-mount UPS. Long run time. New in October 1999.  
CONDITION: Excellent PRICE: \$500 or B.O.  
CONTACT: Don Mussell PHONE: 831-420-1571  
BESBD, 415 Emerald Forest Ln, Bonny Doon, CA 95060



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**Urban Model 8000A**  
Audio processor. Recapped in 1999 working when removed.  
CONDITION: Good PRICE: Make offer.  
CONTACT: Charlie Hall PHONE: 435-623-4131  
PO Box 398, Nephi, UT 84648

**Dorough Model 310**  
DAP audio processor pair.  
CONDITION: Call PRICE: Make offer.  
CONTACT: Charlie Hall PHONE: 435-623-4131  
PO Box 398, Nephi, UT 84648

**dbx Model 166L**  
Compressor/limiter. Used lightly in private studio.  
CONDITION: Excellent PRICE: \$200 or B.O.  
CONTACT: Don Mussell PHONE: 831-420-1571  
BESBD, 415 Emerald Forest Ln, Bonny Doon, CA 95060

**dbx Model 160A**  
Mono compressor/limiter. Never used.  
CONDITION: As new. PRICE: \$150 or B.O.  
CONTACT: Don Mussell PHONE: 831-420-1571  
BESBD, 415 Emerald Forest Ln, Bonny Doon, CA 95060

**dbx Model 286A**  
Microphone pre-amp and processor. Never used.  
CONDITION: As new. PRICE: \$300 or B.O.  
CONTACT: Don Mussell PHONE: 831-420-1571  
BESBD, 415 Emerald Forest Ln, Bonny Doon, CA 95060

**Altec Model 1612A**  
Limiter/preamp with 2 inputs.  
CONDITION: Like new. PRICE: \$245  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

**CBS Audimax III**  
Audio processor. Needs adjustment.  
CONDITION: Working PRICE: \$150  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

**dbx Model 166**  
Stereo limiter/compressor, gated.  
CONDITION: Good PRICE: \$215  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

**Masteroom Model**  
Reverb driver.  
CONDITION: Call PRICE: Call for price.  
CONTACT: Tim Coffman PHONE: 858-571-5031  
Please call.

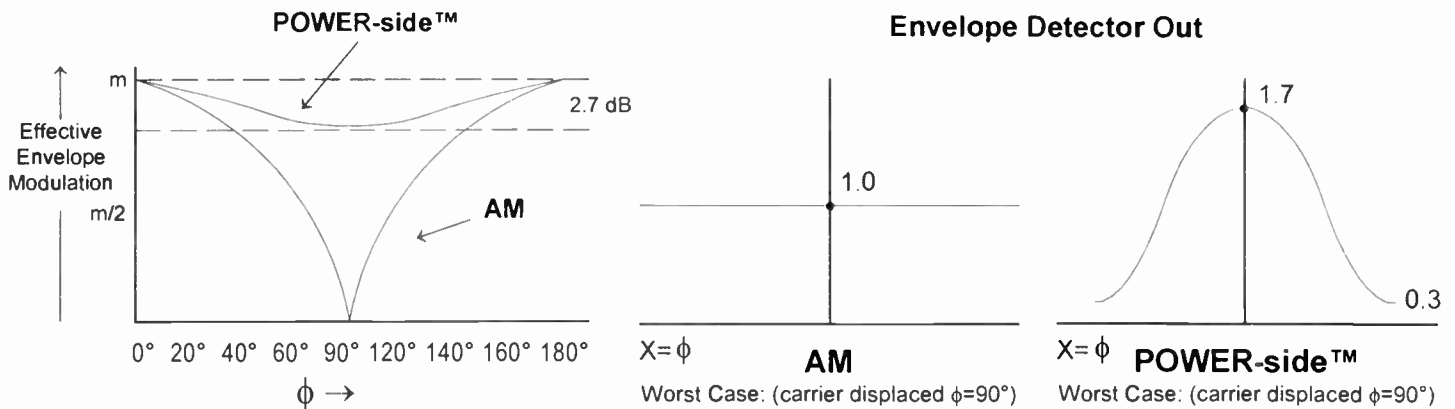
**Urei Model 545**  
Parametric audio equalizer.  
CONDITION: Call PRICE: Call for price.  
CONTACT: Tim Coffman PHONE: 858-571-5031  
Please call.





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## Satellite Equip.

Continued from previous page.



**Comstream-Gilat Model CM701/DAC700/Sky Way**  
Ku uplink w/2.8 m dish, horn, 4W transceiver, DAC 700 codec.  
CONDITION: Excellent PRICE: \$20,00 or B.O.  
CONTACT: Don Mussell PHONE: 831-420-1571  
BESBD, 415 Emerald Forest Ln, Bonny Doon, CA 95060

**Harris Model 6550**  
Satellite receiver with 3 FM demod cards.  
CONDITION: Good PRICE: Best offer.  
CONTACT: Don Smith PHONE: 580-482-1450  
Altus Radio, 212 West Cypress, Altus, OK 73521

## Studio Equipment

Clocks, Racks, Furniture, Etc.



**Equipment Shelves**  
Equipment shelves to fit 19-inch rack.  
CONDITION: New PRICE: \$25 + ship.  
CONTACT: Paul Pasink PHONE: 804-993-3300  
Metro, PO Box 350, Concord, VA 24538

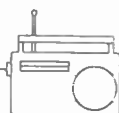
**Rane Model HC-6**  
Stereo headphone console.  
CONDITION: Call PRICE: \$199  
CONTACT: Steve Scarborough PHONE: 877-722-1031  
Bay Country Broadcast, 7117 Olivia Rd, Baltimore, MD 21220

**Clearcom Model CS-210**  
Main station for 2-chan intercom. 4-wire IFB converter.  
CONDITION: Very good. PRICE: \$299  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

**ADC Model**  
Patchbays, 52 point, TRS longframe.  
CONDITION: Very good. PRICE: \$75  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

## Telephone Audio

Hybrids, Cell, Talkshow, ISDN



**PD MC Model 288**  
Telephone remote unit (rotary) broadcast amp. 4-mic/2-line.  
CONDITION: Good PRICE: Any offer.  
CONTACT: David Nuechterlein PHONE: 517-686-9341  
Almake Auto, 6130 S Dehmel Rd, Frankenmuth, MI 48734

**Gentner Model TS-612**  
Telephone interface, rack mount, control surface, cables.  
CONDITION: Excellent PRICE: \$1,800 or B.O.  
CONTACT: Don Mussell PHONE: 831-420-1571  
BESBD, 415 Emerald Forest Ln, Bonny Doon, CA 95060

**Comrex Hotline Model**  
Portable audio POTS codec.  
CONDITION: Call PRICE: \$1,795  
CONTACT: Steve Scarborough PHONE: 877-722-1031  
Bay Country Broadcast, 7117 Olivia Rd, Baltimore, MD 21220

**Telos Model 9200 Zephyr**  
Digital network audio transceiver with ISDN.  
CONDITION: Call PRICE: \$2,495  
CONTACT: Steve Scarborough PHONE: 877-722-1031  
Bay Country Broadcast, 7117 Olivia Rd, Baltimore, MD 21220

**Gentner Model TS-612-12**  
Multi-line telephone system w/ extra control surface.  
CONDITION: Call PRICE: \$2,795  
CONTACT: Steve Scarborough PHONE: 877-722-1031  
Bay Country Broadcast, 7117 Olivia Rd, Baltimore, MD 21220

**Gentner Digital Hybrid III**  
Automatic gain, automatic null, one-button record.  
CONDITION: Call PRICE: \$595  
CONTACT: Steve Scarborough PHONE: 877-722-1031  
Bay Country Broadcast, 7117 Olivia Rd, Baltimore, MD 21220

**Gentner Model TS-612**  
Control surface phone. New P.S. & touch-pad installed.  
CONDITION: Call PRICE: \$250  
CONTACT: Steve Scarborough PHONE: 877-722-1031  
Bay Country Broadcast, 7117 Olivia Rd, Baltimore, MD 21220

**2) Gentner Model G2500**  
Digital super hybrid. Auto mix-minus, auto answer, auto null.  
CONDITION: Call PRICE: \$699  
CONTACT: Steve Scarborough PHONE: 877-722-1031  
Bay Country Broadcast, 7117 Olivia Rd, Baltimore, MD 21220

## Test Equipment

Tools, Bench, Field, Wattmeters



**Tektronix Model DM-501A**  
Digital multi-meter.  
CONDITION: Call PRICE: \$150  
CONTACT: John Price PHONE: 214-321-657  
Price Recording, Dallas, TX 75228

**Tektronix Model DM-502A**  
Digital multi-meter.  
CONDITION: Call PRICE: \$150  
CONTACT: John Price PHONE: 214-321-657  
Price Recording, Dallas, TX 75228

**Eico Model 150**  
Solid state signal tracer.  
CONDITION: Call PRICE: \$100  
CONTACT: John Price PHONE: 214-321-657  
Price Recording, Dallas, TX 75228

**Heathkit Model MM-1**  
AC/DC multimeter, to 5 kV.  
CONDITION: Good PRICE: \$25  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

**Decker Precision Model**  
DC meter. +/- 0.3-30 volts, in 5 ranges. Center zero.  
CONDITION: Very good. PRICE: \$39  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

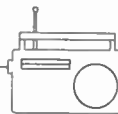
**Eico Model 955**  
In-circuit capacitor tester, RC bridge type.  
CONDITION: Very good. PRICE: \$25  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

**RCA Model WV-98C**  
Senior VoltOhmyst VTVM.  
CONDITION: Fair PRICE: \$25  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

**VIZ Model WP25A**  
105-130 volt variable isolation transformer.  
CONDITION: Good PRICE: \$50  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

## Towers & Coax

Towers, Transmission Line, Etc.



**Andrew Model PSPC Style**  
Nitrogen regulator.  
CONDITION: Like new. PRICE: \$150  
CONTACT: Jan Aerts PHONE: 972-270-0683  
Transmitter Services, 2211 Borman Ave, Mesquite, TX 75150

**2) Duro-Test Model 620**  
Tower beacon lamps. 130 volt, 5000 hour.  
CONDITION: Call PRICE: \$35 pair.  
CONTACT: Tom Barbarese PHONE: 856-222-0636  
Please call.

## Transmitters

AM, FM, Exciters, RF Amps, Etc.



**QEI Model FM-3500Q**  
3500 watt FM transmitter.  
CONDITION: Very good. PRICE: Call for price.  
CONTACT: Chris Kreger PHONE: 816-628-5959  
Please call.

**2) Tepco Model J-340**  
FM translators. Used a short time.  
CONDITION: Call PRICE: \$2,000  
CONTACT: Curt Marker PHONE: 906-249-1423  
WHWL Radio, 130 Carmen Dr, Marquette, MI 49855

**McMartin Model B-9102A**  
Mono FM exciter. 67 kHz SCA, no stereo gen. No manual.  
CONDITION: Good, clean. PRICE: \$400  
CONTACT: David Nuechterlein PHONE: 517-686-9341  
Almake Auto, 6130 S Dehmel Rd, Frankenmuth, MI 48734

**RCA Model BTE-15A**  
FM stereo exciter, solid state, with SCA card.  
CONDITION: Good, clean. PRICE: \$490  
CONTACT: David Nuechterlein PHONE: 517-686-9341  
Almake Auto, 6130 S Dehmel Rd, Frankenmuth, MI 48734

**Collins Model 21E**  
5kW transmitter. Needs some work. Good tubes, many parts.  
CONDITION: Call PRICE: \$1,500 or B.O.  
CONTACT: Dennis Ryer Sr. PHONE: 804-292-4146  
WBBC Radio, PO Box 300, Blackstone, VA 23824

**Belar Model (1965 Vintage)**  
1kW AM trans. w/ low power cutback. 4-400 tubes. 1060 kHz.  
CONDITION: Very good. PRICE: \$1,800 + ship.  
CONTACT: Gene McCoy PHONE: 308-728-5514  
KNLV Radio, 205 South 16th St, Ord, NE 68662

**Model CM 30-50**  
50W AM transmitter. Special rugged case. Type approved.  
CONDITION: New PRICE: \$900  
CONTACT: James Cunningham PHONE: 580-265-4496  
KEOR Radio, Rt 2 Box 113B, Stonewall, OK 74871

**Gates Model BC-1G**  
1kW AM transmitter, tuned to 1540 kHz.  
CONDITION: Working PRICE: \$1,000  
CONTACT: Jeff Smith PHONE: 336-877-3400  
FSA Broadcasting, PO Box 101, Fleetwood, NC 28626

**RCA Model BTF-10**  
10kW FM transmitter, PCB's removed, needs tuning gear.  
CONDITION: Call PRICE: Make offer.  
CONTACT: Jim Sute PHONE: 541-779-1550  
Marathon Media, 1438 Rossanley Dr, Medford, OR 97501

**Broadcast Electronics Model FX-30**  
30W FM exciter. No low pass filter. Set up for 101.9 MHz.  
CONDITION: Excellent PRICE: \$2,800  
CONTACT: Jim Sute PHONE: 541-779-1550  
Marathon Media, 1438 Rossanley Dr, Medford, OR 97501

**CSI Model T-10A**  
10kW AM transmitter, tuned to 1210 kHz.  
CONDITION: Not working. PRICE: \$10,00 or B.O.  
CONTACT: Keith Teske PHONE: 509-457-1000  
Butterfield Bdcstg., 706 Butterfield Rd, Yakima, WA 98901

**Sparta/Bauer Model 701**  
AM transmitter, tuned to 1490 kHz, w/ 4-400 tubes & manuals.  
CONDITION: Good PRICE: \$1,100  
CONTACT: Scott Bailey PHONE: 615-451-2131  
WRMO Radio, 701 N Blythe St, Gallatin, TN 37066

**Ramsey Model FM 100**  
FM transmitter. Part 15 approved.  
CONDITION: Call PRICE: \$250  
CONTACT: Serge Petit-Homme PHONE: 914-667-1746  
Lakay Broadcasting, PO Box 10573, Porchester, NY 10573

**Nautel Ampfet**  
1kW AM transmitter, tuned to 630 kHz, in service 2/97.  
CONDITION: Excellent PRICE: \$9,000  
CONTACT: Tom Witschen PHONE: 651-436-4000  
WDGY Radio, PO Box 25130, St. Paul, MN 55125



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Lee Salter Communications  
1305 Turnpike Rd, Elizabethtown, PA 17022  
Phone: 717-367-7018  
Email: [dlsalter@paonline.com](mailto:dlsalter@paonline.com)

**FM TRANSMITTER:** Non-commercial inspirational station, located in Colorado, has a grant to upgrade ERP from 13kW to 20kW. Now looking for a transmitter. Our preference is 1990 or newer, with good efficiency. [04/01]

Harry Russell - KTLF Radio  
1665 Briargate Blvd, Colorado Springs, CO 80920  
Phone: 719-593-0600  
Email: [harryrussell@hotmail.com](mailto:harryrussell@hotmail.com)

**AKAI TAPE DECK:** Looking for an Akai model GX-400D, tape deck, in any condition, for parts. Reasonable price.

**AKAI MANUAL:** Looking for a service manual or copy for a 1970 vintage GX-400D tape deck. Would appreciate e-mail from anyone knowing leads or where I could obtain this manual. [04/01]

Roger Paskvan  
WBJI Radio  
3516 Mill St, Bemidji, MN 56601  
Phone: 218-751-3077  
Email: [rogerp@paulbunyan.net](mailto:rogerp@paulbunyan.net)

**SPARTA MIXER MANUAL:** Looking for a manual for a Sparta Model A-15 audio mixer. [04/01]

Alfonso Gimenez  
WPAB Radio  
PO Box 7243, Ponce, PR 00732  
Phone: 787-840-5550  
Email: [pab@coqui.net](mailto:pab@coqui.net)

**WAVETEK MANUAL:** Looking for a manual for a model 3001, Wavetek RF generator. [04/01]

Phil Lentz  
122 Elizabeth Ln, Pittsburgh, PA 15237  
Phone: 412-875-4859  
Email: [oldies@broadcast.net](mailto:oldies@broadcast.net)

**COLLINS TRANSMITTER:** Looking for a Collins model 20V-3 AM transmitter, in any condition.

**LPB TRANSMITTER:** Looking for LPB model P-30, 30 watt, solid state AM transmitter. [04/01]

Scott Bailey - WMRO Radio  
701 North Blythe St, Gallatin, TN 37066  
Phone: 615-451-2131  
Email: [scottwmro@aol.com](mailto:scottwmro@aol.com)

**FM TRANSMITTER:** Non-profit organization and broadcasting school looking for donation. FM transmitter and on-air and production equipment, TV and Radio. All type of equipment is welcome and fully tax-deductible. We will pick up or pay for shipping. [04/01]

Serge Petit Homme  
Lakay Broadcasting  
PO Box 1517, Prochester, NY 10573  
Phone: 914-667-1746  
Fax: 914-667-1713  
Email: [petit77777@hotmail.com](mailto:petit77777@hotmail.com)

**BROADCAST EQUIPMENT:** Looking for all types of used broadcast equipment. Fax us your list today. [04/01\*]

Bay Country Broadcast Equipment  
7117 Olivia Rd, Baltimore, MD 21220  
Phone Toll Free: 877-722-1031  
Fax: 786-513-0812  
Email: [info@baycountry.com](mailto:info@baycountry.com)

**USED BROADCAST EQUIPMENT:** Looking for all types of used broadcast equipment. Please mail or fax me with a list of the items you want to sell. If you have a studio complex or transmitter site, anywhere in the U.S., that is no longer being used, I can remove the existing equipment for you at a reasonable price (often in full or partial exchange for used equipment. [04/01\*])

Craig Pringle  
A/Q America  
PO Box 8975, Ames, IA 50014  
Phone: 515-432-5780  
Fax: 630-604-6493  
Email: [cjp2001@excite.com](mailto:cjp2001@excite.com)

**AUDIO COMPRESSORS/LIMITERS:** Looking for Universal Audio, Urei, Fairchild, etc.

**TECHNICS TURNTABLES:** Looking for Technics Model SP-10MK2 and MK3, SP-15, SL-1000, tonearms, and cartridges.

**PHONOPREAMPS:** Looking for Urei, Stanton, ATI, Ramko, etc.

**HI-FITUBE:** Marantz, McIntosh, tubes, Hickok tube testers, etc. [04/01\*]

Kim Gutzke  
7134 15th Ave S, Minneapolis, MN 55423  
Phone: 612-869-4963  
Email: [kgutzke@msn.com](mailto:kgutzke@msn.com)

**TUBE POWER AMPS:** Looking for McIntosh Models MC-30/40/60/75, MC-225, MC-240, MC275, MI-60/75, 20W-1, and 50W-2. Marantz Models 2, 5, 8B, and 9. Altec Models 1520, 1530, 1568, 1569, 1570, and others.

**HORN SPEAKERS:** Looking for Altec Electro-Voice, JBL, Western Electric, Jensen, Quad, Tannoy, Goodman. Also looking for cabinets, woofers, drivers, horns, crossovers, parts, etc.

**TUBE HI-FI/COMMERCIAL AMPS:** Looking for Scott, Dynaco, Fisher, RCA, Ampex, Quad, Leak, Eico, Harmon Kardon, etc. [04/01\*]

Sonny Goodson  
Sunshine Sound  
1413 Magnolia Ave, Midwest City, OK 73110  
Phone: 405-737-3312  
Email: [SunnySound@aol.com](mailto:SunnySound@aol.com)

**LIMITERS:** Looking for Universal Audio, UREI, Altec, dBX, Collins, Gates, RCA, and other units.

**MICROPHONES:** Looking for Neumann, Shure, RCA, Beyer, AKG, and Altec.

**EQUALIZERS:** Looking for parametric, passive, and others. [04/01\*]

Tim Coffman  
Phone: 858-571-5031

**BROADCAST EQUIPMENT:** Looking for inventories of both older and newer equipment, parts, microphones, etc. STL's, ANY audio processing equipment (old, new, & in between too!), RF components, and exciters especially wanted.

We will be glad to come inspect or clean out both the good and the not so good too in many cases! We can purchase selectively or trade towards new equipment or rebuilt equipment. [04/01\*]

Jon Hall  
Hall Electronics  
Phone: 804-984-4255  
Fax: 804-984-3299  
Email: [jon@halls.com](mailto:jon@halls.com)

**OLDER EQUIPMENT:** Looking for all older broadcasting and recording equipment. Disc and tape recorders, any tube mixers, limiters, and amplifiers. Also looking for microphones, speakers and literature. [04/01\*]

Robert Van Dyke  
Caffrey House Inc., 2 Squires Ave, East Quogue, NY 11942  
Phone: 631-723-3538  
E-Mail: [rvandyke@optonline.net](mailto:rvandyke@optonline.net)

**BROADCAST EQUIPMENT:** I purchase select broadcast, recording, and sound related equipment working or non-working. Please fax, mail, or e-mail list with model number, description, condition, and asking price.

Looking for test equipment catalogs (HP, TEK, GR, Fluke, Etc.) prior to 1985.

Looking for Rotron blower motors for CCA, Harris, McMartin, Harris, etc. Working or not working. [04/01\*]

Jeff Corkren - B.E.S.  
PO Box 20331, Jackson, MS 39289-1331  
Phone: 601-857-8573  
Fax: 601-857-2346  
E-mail: [jcorkren@ucmail.com](mailto:jcorkren@ucmail.com)

## Records and Tapes Wanted

**OLD-TIME RADIO:** Seeking a buyer for a superb, high quality collection of Old-Time Radio programs, of every type, on over 700 reels of 7-inch audio tape. This collection is completely cataloged. Must buy complete collection. Serious inquiries only. [04/01]

Craig Pringle - A/Q America  
PO Box 8975, Ames, IA 50014  
Phone: 515-432-5780  
Email: [cjp2001@excite.com](mailto:cjp2001@excite.com)

**RADIO TRANSCRIPTION DISCS:** Looking for 16-inch radio transcription discs (or raw copies on CD), to buy and/or trade. Also looking to buy a transcription turntable, in decent working condition. Will pay any reasonable price for CD's, electrical transcription discs and turntable. [04/01\*]

Andy Blatt - Vintage Broadcasts  
PO Box 65, Staten Island, NY 10305  
Phone: 800-418-1445

**BLANK RECORDING DISCS:** Looking for professional N.O.S recording discs. Need "studio type" discs such as Audiodisc, Transco, Allied, Soundcraft, and Presto. Also looking for certain "home recording" types, but no glass-base or cardboard. Especially need and 7-inch discs with large hole for 45 RPM dubs. Good prices paid for good discs. [04/01\*]

Bruce Leslie - Pro Recording  
13709 Mapleleaf, Cleveland, OH 44125  
Phone: 216-662-1435

**HISTORY OF ROCK & ROLL:** Looking for History of Rock and Roll, and the History of Country Music, on audio cassettes.

**AIRCHECKS:** Looking for airchecks from Oklahoma and around the world. From the 50's, 60's, and 70's.

**OKLAHOMA BOMBING:** Looking for audio and video news stories and documentaries on the Oklahoma City bombing, from anywhere around the world.

**HOCKEY GAMES:** Looking for NHL and other professional games on VHS video and audio cassettes. [04/01\*]

Bill Stewart - Radio Research  
PO Box 272081, Oklahoma City, OK 73137

**AIRCHECKS:** Looking for airchecks from the 50's, 60's, and 70's, from any and all markets. Country, Top-40, Beautiful Music, and Soul. Also looking for radio-related stories and related video on VHS.

**PLAY-BY-PLAY:** Looking for play-by-play of NHL and/or their play-by-play of Pro Hockey games, especially Boston Bruins; audio and video. [04/01\*]

Bill Scott - OCA  
PO Box 365, Mustang, OK 73064

**RECORDS:** Looking for phonograph records. 33/45/78, from the 50's and 60's. Top prices paid for records in very good, or better condition. Will travel. No Big band, opera or Broadway shows. Looking for Rock, Country, Jazz, Blues, Soul, Movie Soundtracks, male and female vocalists. [04/01\*]

Bill Berry - Karavan Broadcasting  
15306 Conroe Dr, Conroe, TX 77384  
Phone: 800-321-2920  
Email: [weberry@lcc.net](mailto:weberry@lcc.net)



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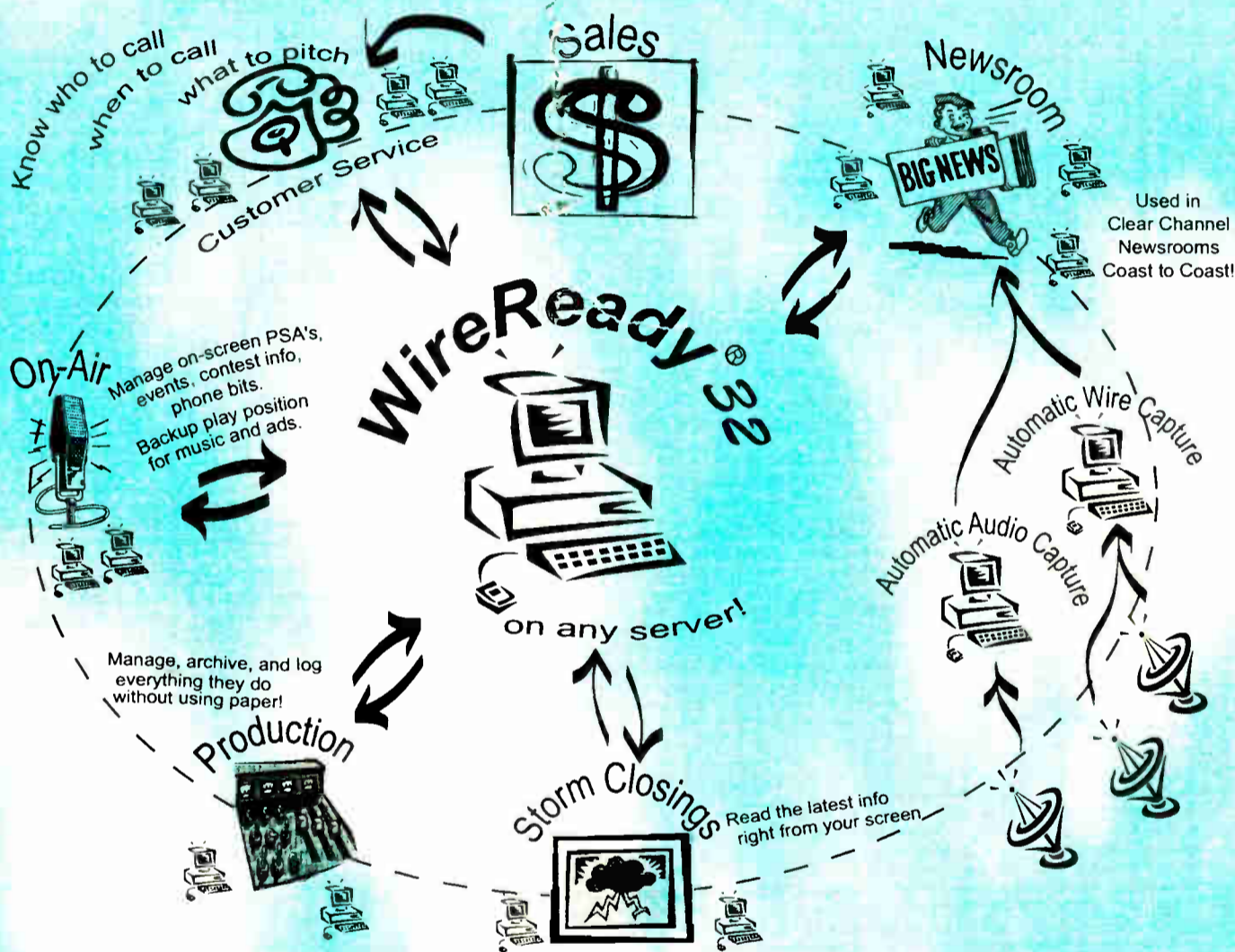


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