

The LPTV Report

News and Strategies for Community Television Broadcasting

Vol. 7, Issue 2

February 1992

S.12 Passes

—by Jacquelyn Biel

On January 31, by a vote of 73 to 18, the U.S. Senate passed S.12, its controversial cable reregulation bill. S.12 includes an amendment introduced in committee last May by Senator Wendell H. Ford (D-KY) granting must-carry rights to LPTV stations that do local programming (see *LPTV Report*, May 1991, page 1).

The vote followed the 54 to 35 defeat of a "substitute" bill offered by Senator Bob Packwood (R-OR), a leading opponent of S.12. Packwood had objected to what he called the "massive reregulation" of the cable industry embodied in the winning legislation. The White House had announced its formal opposition to the bill on January 28 and its support for Packwood's substitute. President Bush's senior advisors will recommend a veto if the

continued on page 7

Are All Transmitters Created Equal?

—by Joe Wozniak

Buying a new TV transmitter is a major decision that should be given special attention and thorough analysis. But for those who feel they do not understand the technical aspects of the equipment, it can be difficult to make the right choice.

In such a case, you might want to line up a qualified engineer to help. However, even if you do not have an engineer, this brief overview will answer some of the questions you might have when purchasing a transmitter.

Are all transmitters created equal? It would be much easier if they were. Your choice would then come down to price, convenience, delivery, buyer-seller relationship, and purchase terms. And although

these factors are sometimes used to make a final decision between two or more equally desirable choices, each manufacturer offers something a little or a lot different for the buyer to consider.

Proven product quality, product performance, features, cost to operate, and after-the-sale support and services all vary. Measuring and comparing these things might not be easy, and budget constraints may also limit your choices.

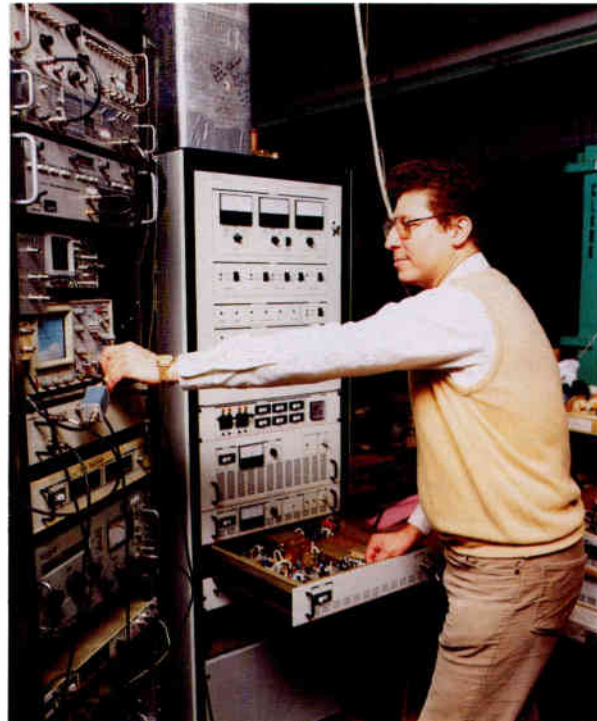
Quality

TV transmitters should have a useful life of 15-20 years, so the quality of the product you choose is very important. It will determine the amount of time and money you will spend in keeping the system on the air for years to come. Since very few LPTV facilities have a back-up transmitter, reliability is extremely important.

Performance

By transmitting a clear TV signal, LPTV stations can look as good as full power stations within their coverage area. In

continued on page 10



R. W. "Sam" Zborowski, vice president of engineering at ITS Corporation, carrying out the final quality inspection on an ITS-230A UHF transmitter. Photo by John Madia Photography, Pittsburgh.

Transmitters My Second Love

—by Robert G. Truscott

If God hadn't invented women, I'd have married a transmitter.

At least that's what Jean has told me many times during the 42 years of our life together.

On a couple of occasions she has accused me of actually *being* married to that 110 kW rig in the Sears Tower in Chicago, or to the 220 kW monster on a North Carolina mountaintop. Not to mention the ever-present ham transmitters on the workbench in the basement.

My defense against these accusations was always pretty thin. I had to admit to a love affair with transmitters, but I told Jean it was strictly a platonic thing — sort of like sitting up with a sick friend to make him well again. (Even though it sometimes

continued on page 4

LPTV Report
P.O. Box 25510
Milwaukee, Wisconsin 53225-0510
ADDRESS CORRECTION REQUESTED

DATED MATERIAL

BULK RATE
U.S. POSTAGE
PAID
Manchester, N.H.
Permit No. 1926

The perfect marriage... You and BE-TV.

PROGRAMMING SCHEDULE							
	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
7:00 p.m.	SPORTS REVIEW	THIS WEEK IN SPORTS	QUICK GARDEN ROMANCE and ROSES	OUTDOOR TRADITION MYSTERY FORUM	GOOD OL BOYS WESTERN THEATER	ANTIQUE CARS BACK STAGE PASS	MUSIC and STUFF
8:00	CRAFT CORNER DO IT YOURSELF	THE BIG PICTURE	ROMANCE THEATRE	MYSTERY THEATRE		SCI FI THEATRE	SCARY THEATRE
9:00	BYTES and PC's	OLD FAVORITES THEATRE	PSYCHIC VOYAGES	JUSTICE	MIND PROBE		FUNNY BUSINESS
10:00	JAZZ and BLUES THEN and NOW		RERUN	RERUN OLD FAVORITES THEATRE	RERUN ROMANCE THEATRE	RERUN MYSTERY THEATRE	SCARY THEATRE
11:00	ACTION THEATRE	ACTION THEATRE					
12:00							
1:00 a.m.							

BE-TV
P.O. Box 413671 • Kansas City, MO 64141 • (816) 842-BETV FAX: (816) 842-6313

Circle (196) on ACTION CARD

Kompas Resigns As CBA Executive Director Launches New Sales Rep Firm

Effective January 31, John Kompas has resigned as executive director of the Community Broadcasters Association in order to launch a new information and advertising rep firm for the LPTV industry. Kompas retains his seat on the CBA board of directors; he was elected to a two-year term at the LPTV Conference in November.



John Kompas

Kompas is a founding member of the CBA and served as its president from 1985 through 1990, leading the fledgling organization to a recognized position among broadcast trade associations and initiating such efforts as inclusion of community television stations in cable legislation now before Congress, and the pending FCC Petition for Rule Making to relieve stations from restrictive regulation.

His new firm, K/B Data:K/B Sells, will conduct continuing research into the LPTV industry and use the information to organize marketing efforts for large companies

targeting niche audiences through television. The concept, said Kompas, is to allow community television stations to participate in ad revenues from national companies that until now have been restricted to mass audience buys on conventional stations.

"Community television is an excellent advertising vehicle for these companies," said Kompas. "The stations are out there doing high school football, local festivals, featuring local talent. This is the kind of grass roots, niche audience programming that large stations can't afford to do."

"The future of LPTV is strong. Now the industry needs to be documented. We need to bring collective information about the industry to the people who want to use the services of LPTV stations," he added.

According to CBA president D. J. Everett, III, the new venture "holds great potential for benefitting the LPTV industry."

Everett added his "personal accolades for John's service to the CBA and his vision and leadership during our industry's early years." The CBA board of directors also passed a formal resolution at their January

meeting in New Orleans thanking Kompas for his contributions.

Kompas is also curtailing his activities with *The LPTV Report* in order to focus his energies on the new venture. He will advise the magazine on marketing through an ongoing consulting arrangement. Jackie Biel, presently associate publisher, will take over as publisher. CBA

CBA Moves Executive Offices

As of February 1, the Community Broadcasters Association will have a new mailing address and telephone number. The office in Milwaukee will close, and all mail and calls will be forwarded to:

Community Broadcasters Association
P.O. Box 191229
Dallas, TX 75209
(214) 720-3814



In Our View

Before I got involved in television, I was a teacher. And I've been a parent for almost sixteen years.

Both experiences contribute to the feeling behind this column.

You may know that the Carnegie Foundation for the Advancement of Teaching recently released a report outlining a strategy to ensure that every American child who enters our schools is prepared to learn.

The Carnegie report, *Ready to Learn — A Mandate for the Nation*, responds to President Bush's 1990 State of the Union address in which he promised that "By the year 2000, all children in America will start school ready to learn."

To prepare their recommendations, the Carnegie Foundation surveyed 7,000 kindergarten teachers from across the country and found that more than one-third of the nation's children, *perhaps as many as two million*, are starting school *not* ready to learn. They come to school with crippling deprivations — poverty, neglect, sickness, hunger, and lack of adult protection and nurturing.

One teacher wrote, "It is *so* sad to realize just how many children are *not* ready to learn when they come to school. They *deserve* to know by age five their full name and the name of the town where they live. They need to know that a pencil is something to write with — not eat — and that someone believes in them, no matter what!"

Another said, "Children need to be healthy in mind, soul, and body to be ready to learn. They need more laptime with their parents so they know they are loved. They need to know for sure that there will be a roof over their heads and food on the table tomorrow."

They also need to feel safe in school. A popular network news program revealed recently that, in some of our cities, kids carry guns to school as a matter of course. Why? Because they're afraid of being killed, they said.

This situation is utterly deplorable. Clearly, something has to be done. And as television broadcasters, commanders of the nation's most powerful communications medium, we can help.

The Carnegie Foundation proposes a decade-long campaign on behalf of children, one in which "everyone is involved and no child is left out." Their report contains seven basic recommendations, paraphrased here:

- Ensure that every child has a healthy

birth, and is well nourished and well protected in the early years of life;

- Provide every child with a secure home environment where empowered and educated parents encourage language development and reading;

- Establish high quality pre-school programs for all children, especially those living in disadvantaged areas;

- Encourage workplace policies such as flexible scheduling and job sharing that support the family and meet the special needs of children.

- Ensure that children have safe and friendly neighborhoods to grow and explore in.

- Create ways for the very young and the very old to interact so that children learn the security of the continuity of generations.

- Recognize and exploit the educational power of television — second only to that of parents in a child's life.

Note the importance that the Foundation gives to television, ranking its influence with that of parents, schools, nourishing food, and safe neighborhoods. And it suggests several strategies by which the television industry can make its influence on kids positive and enriching.

One of them is to encourage each of the major commercial networks to offer at least one hour of preschool educational programming every week. Another is to prepare a "Ready-to-Learn Television Guide" listing programs on both commercial and cable channels that have special educational value for kids. A third is to encourage companies that sell products

geared to young children to sponsor quality programming. There are several others.

Unfortunately, not one of the strategies involves local programming. Why not??

There has to be at least *one* pre-school teacher in every community who would be eager to share his or her talents and experience through a simple television program. The production need not be expensive: Captain Kangaroo fascinated kids just by reading to them; Bill Cosby drew pictures. I remember listening as a child to our local librarian read stories on the radio.

As for funding, it shouldn't be hard to get local corporations to underwrite such a program. In fact, even national companies like Fisher-Price or Mattel or Tonka — who sell toys and other products for small children — might be encouraged to invest co-op dollars in such a project.

As for the "Ready-to-Learn Television Guide," if you're already putting out an audience newsletter or a program guide, why not create a special section highlighting your children's programs? Invite your community's other broadcast and cable media to include their children's programming in your guide. I'll bet that what you'll earn in good will will far outweigh the extra time and costs.

These are just two obvious ways to help implement the Carnegie Foundation's recommendations. You can probably think of several others. The point is that we as television broadcasters have not only the power but the absolute obligation to correct the perils facing our children today. If we don't, the perils facing them tomorrow may be insurmountable.

You can get a copy of the Carnegie report by sending \$8.00 to Princeton University Press, 3175 Princeton Pike, Lawrenceville, NJ 08648, or by calling (609) 896-1344.

The LPTV Report

5235 North 124th Street, Butler, WI 53007
(414) 781-0188
FAX: (414) 781-5313

Jacquelyn Biel: *Editor & Publisher*
Katie Reynolds: *Account Executive*
Anne Rosenberger: *Staff Writer*
Mary Lawler: *Administrative Assistant*
Heidi Wiederhold: *Sales Assistant*
John Kompas: *Marketing Consultant*

Columnists: John H. Battison, P.E., Peter Tannenwald, Joe Tilton

Guest Contributors: Robert G. Truscott, Joe Wozniak

Typography: Graphic Innovations
Layout: Debi Muraro, Graphic Innovations
Printing: Cummings Printing Co.
Printing Coordinator: John Foss, Cummings Printing Co.

WorldRadioHistory

Advertising Sales:

Katie Reynolds
(414) 781-0188
FAX: (414) 781-5313

Affiliations: **CBA**

The LPTV Report is an official information channel of the Community Broadcasters Association.

Community Broadcast Publishers, Inc.

S.E. Bradt: *President & Chief Executive Officer*
Richard P. Wiederhold: *Vice President & Treasurer*

The LPTV Report, ISSN 0892-5585, is published monthly by Community Broadcast Publishers, Inc. 5235 North 124th Street, Butler, WI 53007, or P.O. Box 25510, Milwaukee, WI 53225-0510. © Copyright 1992 by Community Broadcast Publishers, Inc. All rights reserved.

Subscription price: 1 year, \$35.00; 2 years, \$55.00.
Outside USA: 1 year, \$43.00; 2 years, \$71.00.
Back Issues: \$3.75 each. POSTMASTER: Please send address changes to: The LPTV Report, P.O. Box 25510, Milwaukee, WI 53225-0510.

My Second Love

continued from front page

took as much as 30 consecutive hours. One session actually did last that long because RCA forgot how to make power supplies for a while.)

Once Upon A Time . . .

It's interesting to note how these kinds of work relationships come about. With me it all started because World War II ended on my eighteenth birthday. I had enlisted in the Army Air Force Aviation

Cadet program at seventeen (that was before the U.S. Air Force was born) with the intention of becoming a fighter pilot and hero. But the war ended before I could get into flight training, and after the war the Army no longer needed heroes.

Instead they sent me to radio school.

This was fortunate for me because it was at the Army radio school that I met my first transmitter. It was love at first sight. I was hooked and I still am.

Since then, transmitters have had a significant impact on my personal life. My first broadcasting job was in a sleepy town called Davenport, IA. Davenport's

local matchmaker used to arrange blind dates for another young engineer and me with girls from the local women's college. After several ho-hum evenings, she offered to introduce me to the daughter of a ham radio operator; and since I was a ham, I accepted the offer, hoping to get to see her dad's rig.

Well, I not only saw his rig and became his friend, but I married his daughter, a girl who had grown up with transmitters and fully understood what they could do to an otherwise rational male animal.

Jean knew she would have to share me with my second love and that she would become a "transmitter widow" whenever one of those temperamental beasts became ill — an event that took me off to the tower for hours and hours of tender bedside care. So with that kind of support at home, I was able to continue and even expand my love affair with transmitters throughout the years that followed.

How Transmitters Grew

It's been fun watching transmitters evolve since then. In the early days, TV transmitters were much larger than they are today. They were unstable, temperamental, and, for the most part, incapable of putting out a picture that would be anywhere near acceptable by modern standards. They were, however, reliable. You could rely on them to fail at least once a day.

It was not uncommon for the transmitter engineer to call the studio with the news that he was going to take the transmitter off the air for thirty minutes or so to repair a water leak in the cooling system or to change a tube or for a multitude of other reasons. I remember one rig that was so unstable that the frequency of the sound carrier would change when you opened the cabinet door. We had to hold the door at a 30° angle in order to keep the darn thing on frequency.

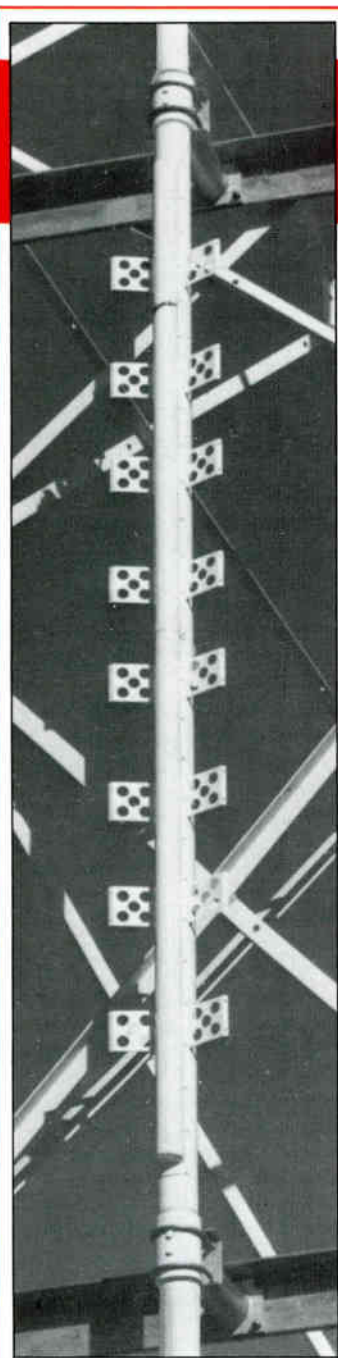
Things are a bit better today. The vacuum tubes have been replaced by transistors, and the rigs are much smaller. They are more stable, they put out a better picture, and they are much more reliable. However, they can still be expected to fail periodically because all things mechanical and electrical will do that. And therein lies the problem that all this progress has produced.

When your transmitter fails, someone has to fix it. But who?

Wanted: One Engineer

Back in the good old days, the "who" was never in doubt because the average TV station had three or four or more competent maintenance engineers on staff — "RF people" we called them. RF means radio frequency; RF people had skills related to transmitters and antenna systems.

continued



The Difference is Performance

Why are more and more LPTV Operators choosing Andrew ALP-Series™ transmitting antennas and HELIAX® transmission lines?

They value the Andrew Advantage:

- ▶ ALP-Series™ antennas simplify leasing tower space because they are smaller and lighter than other LPTV antennas, minimizing tower and wind loading.
- ▶ Outstanding quality and reliability maximize your market coverage . . . and keep you on the air.
- ▶ Andrew is the LPTV leader: the Number One name in performance, with products and service available nationwide.

Call for your free LPTV Antenna System Planner



ANDREW

Andrew Corporation

10500 W. 153rd St.

Orland Park, IL 60462

1-800-255-1479

Available from leading OEM's and System Integrators nationwide.

Acrodyne...the best of all worlds.

UHF TV Transmitters

Solid State Technology

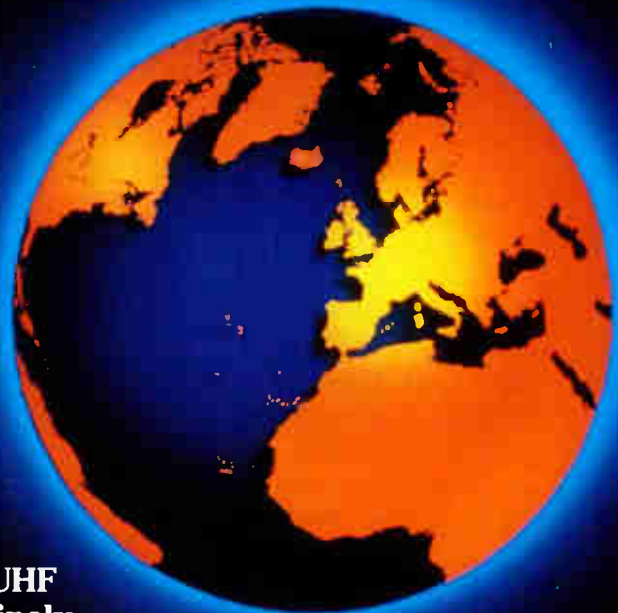
The proof is in! Since 1989, Acrodyne has been delivering affordable solid state 1 kW UHF TV transmitters—**no tubes, no tuning, no downtime.**

- Redundant power supplies
- Built-in diagnostics
- Modular construction
- Frequency agile designs

Advanced Tetrode Technology

Our product line includes the world's only single tetrode 25 kW UHF TV transmitter. Acrodyne's advanced systems are demonstrating exceptional field reliability—**the only new UHF transmitter development which meets and routinely exceeds expected tube life at full rated power.**

- Ultra high plant efficiency
- Solid state drivers
- Inherent linearity minimizes precorrection
- Low cost tube replacement
- Parallel systems available



Tomorrow's digital TV transmitter company

ACRODYNE

Acrodyne Industries, Inc.
516 Township Line Road
Blue Bell, PA 19422
800-523-2596
or (215) 542-7000
FAX: (215) 540-5837

©1991 Acrodyne Industries, Inc. All rights reserved.

**Now Available
30kW
10% aural output**

How Good Is Your Station's Programming?

And Who Is There To Help?



SHOWPLACE
HAL PONTIUS & ASSOCIATES
1962 N. Bissell • Chicago, IL 60614
(312) 472-8828 FAX 929-1108

Circle (180) on ACTION CARD

LPTV Stations Should Get ATV Allotments, Says CBA

—by Jacquelyn Biel

The Federal Communications Commission has a duty to protect localism by minimizing the displacement of LPTV stations as it allots spectrum for advanced television systems, said the Community Broadcasters Association in comments filed with the Commission in December. And if spectrum is available after full power broadcasters have been accommodated, LPTV stations should be able to apply for ATV allotments.

Commenting on the Commission's Notice of Proposed Rule Making regarding the impact of ATV systems on existing broadcast services (MM Docket No. 87-268), CBA pointed out that the Notice says nothing about awarding ATV channels to LPTV stations. In most areas of the country, said CBA, the spectrum supply will be "ample" to accommodate both full power and LPTV simulcast systems. And it said that the Commission should explicitly allow LPTV applications for ATV licenses, although it stressed that such ap-

continued on page 18



LPTV and the LAW

—by Peter Tannenwald

The Next Step In ATV — Allotting The New Channels

The FCC's process of converting our present NTSC television system to an "Advanced Television System" or ATV (also sometimes known as "High Definition TV" or HDTV) keeps marching along. While the various proposed technologies are being tested at the Advanced Television Test Center in Alexandria, VA, the Commission invited a new round of comments in MM Docket No. 87-268 on how it should allocate channels for whatever ATV system it ultimately chooses.

The FCC wants to award ATV channels as quickly and easily as it can, and it wants to get ATV stations built and on the air soon. To that end, it has tentatively concluded that 1) existing NTSC broadcasters who want ATV channels should be given the first chance to apply; 2) one new ATV channel should be awarded to each existing television broadcaster who wants it; 3) existing broadcasters should operate on two channels during a transition period, using NTSC on one channel and ATV on the other; and 4) NTSC operations should ultimately be shut down permanently in favor of an ATV-only system.

The Commission did not say anything about LPTV, so presumably LPTV stations will not be awarded a second channel for ATV — at least not in the first round of allotments. However, there is nothing to stop LPTV broadcasters from applying for ATV channels, either in addition to or as replacements for their NTSC channels, under the same secondary system we use to apply for LPTV stations today.

Awarding New Channels

The first step will be to allot ATV channels to individual communities. Three options were proposed.

- The FCC's first choice is to allot channels to communities and to assign a specific channel to each existing broadcaster at the same time. All channels would be considered of equal value, so a licensee's NTSC and ATV channels might not be close in frequency, and VHF NTSC stations might get UHF ATV channels.

- A second option would allot ATV channels only to particular communities at first. NTSC stations would apply for ATV authorizations later. A filing window would be opened, when NTSC broadcasters could request the specific channel

they wanted. If more than one NTSC station applied for the same ATV channel, a lottery might be used. After the lottery, stations might be permitted to trade channels, but any payment received would have to be devoted to ATV broadcasting.

A second filing window would then be opened for any ATV channels remaining after the lottery, and existing NTSC broadcasters would be allowed to apply on a first-come, first-served basis. Three years after the first filing window, any ATV channels still remaining would be opened to applications from the general public.

The above procedures assume that there will be enough ATV channels to take care of all NTSC stations. Initial studies indicate that 96% of NTSC stations could have an ATV channel if the required separation between stations on the same channel were reduced from the present 175 miles or more to only 100 miles. The UHF "taboos," which are NTSC mileage separation requirements involving channels separated by a certain amount, would also be ignored. First adjacent channel separations might also have to be reduced, and the FCC is considering allowing first adjacent stations to share a common tower.

- In those few situations where there is no way to come up with enough ATV channels to go around, the FCC requested comments on whether it should make a choice among applicants based on their financial qualifications, give a preference to the applicant whose signals would reach the most households, give a preference to the applicant that could get on the air earliest, or simply use lotteries.

Construction and Conversion Timetables

To encourage NTSC stations to build ATV outlets promptly, the FCC has proposed to keep ATV channels open for NTSC stations for only three years after allotments are announced. Stations would have only two years to get on the air after receiving a construction permit. Extensions of time would not be granted easily, and those who did not get on the air on time would lose their ATV channels.

ATV licenses would be separate licenses, not modifications of NTSC licenses. Although a single licensee could

operate both NTSC and ATV channels initially, the FCC would eventually require NTSC licenses to be turned in for cancellation. It asked for comments on when NTSC should be phased out. Suggestions included a uniform nationwide phase-out three years after penetration of ATV receivers reaches a certain threshold, a market-by-market phase-out depending on ATV receiver penetration in the individual market, or a date certain regardless of receiver penetration.

Multiple, Cross-Ownership Rules Waived

NTSC operators who decided not to apply for separate ATV channels would still have the option to convert their NTSC channel to ATV later on. NTSC operators who did apply for and build a separate ATV channel might be able to move their ATV operation back to their old NTSC channel when their NTSC operation went dark. However, ATV operation on an NTSC allotment would be allowed only if the NTSC channel met the new ATV mileage separation requirements, which would not always be the case.

During the transition, the FCC would waive multiple and cross-ownership rules to permit a single licensee to operate both NTSC and ATV stations in the same market and to own more than 12 tele-

vision stations overall, as long as no more than 12 used the same technology. It asked for comments on whether a licensee owning an NTSC and an ATV station in the same market should be required to broadcast the same programming on both stations, the idea being to facilitate access to programming by members of the public no matter which kind of receiver they own. It may be difficult to simulcast if ATV production techniques are different from those used for NTSC programs because of the different aspect ratio of the picture.

Once ATV allotments are announced, the FCC proposed to stop accepting any more new applications for NTSC television stations. It asked how it should handle future NTSC operators who are now only at the rule making stage when and if an NTSC construction permit is ultimately granted.

Noncommercial Channels

The FCC tentatively proposed to continue reserving channels for noncommercial stations, including reserving ATV channels for both occupied and vacant noncommercial NTSC channels. But when the only way to accommodate an existing operating commercial channel is to use a vacant noncommercial allotment, the

Commission said it would make the non-commercial allotment available for commercial ATV use. A new ATV reservation paired with a vacant NTSC channel should not be any more of a problem for LPTV stations than operating on the vacant NTSC allotment is today.

LPTV and Translator Stations

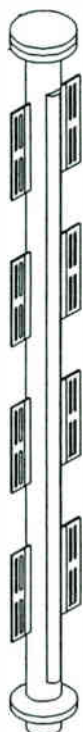
The FCC proposed no change in the secondary status of LPTV stations and translators, so ATV allotments would be made even if those stations were displaced. LPTV stations and translators that are displaced, whether by NTSC or ATV stations, will still have their current right to apply for a new channel without exposure to competing applications and without waiting for an LPTV filing window.

As you can see, there are many changes ahead. LPTV stations will have to surmount many challenges as they are to adapt successfully to the new television environment of the 90's and beyond.

Peter Tannenwald is a partner in the Washington, DC law firm of Arent, Fox, Kintner, Plotkin & Kahn. He is general counsel to the Community Broadcasters Association.

CBP

THE ULTIMATE PERFORMERS!



Traveling Wave UHF Slot Antenna

for Performance and Reliability
Designed Specifically for Low Power TV

- Lightweight rugged aluminum construction
- Radom-covered slots need no pressurization
- Select from seven standard patterns
- Custom patterns available
- Ice Shield optional
- Beam tilt and null fill optional
- VSWR 1.1:1 or better
- Side mount brackets included
- Delivery time 30 to 60 days
- Input power 1Kw 7/8" standard
- Competitive pricing

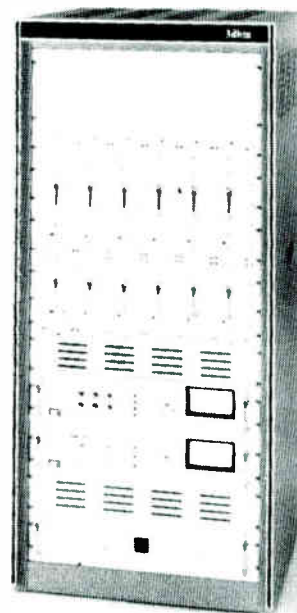
3dbm

3dbm, a recognized leader in specialized military ground and airborne systems for over 25 years, introduces the Model 800, Solid-State, Low Power Television Transmitter. The Model 800 utilizes the latest in state-of-the-art, solid state technology. It accepts video and audio inputs from virtually any source, and transmits at any standard UHF or VHF channel.

STANDARD FEATURES

- 5 to 1000 Watts Transmit Power
- 2 Video Inputs • 3 Audio Inputs
- Automatic Station Identification
- Automatic VSWR Shutdown Protection
- Integral Output Isolator Protection
- Modular Plug-In Design
- Internal Monitoring of Power Supply and Amplifier Performance
- Local Control and Monitoring Facilities
- Integral Redundant Forced Air Cooling
- Redundant Power Supplies and Power Amplifier Assemblies
- Graceful Degradation in the event of Power Amplifier Module failure
- Internal monitoring and compensation of Exciter, Amplifiers and Power Supplies to ensure uninterrupted broadcasting

Solid State Transmitter



For Complete Information Contact Jimmie Joynt at 800-279-3326 • Sales Office POB 25966, Colorado Springs, CO 80936

Circle (75) on ACTION CARD
WorldRadioHistory

LPTV Distribution by State and Territory

December 24, 1991

	Licenses	CPs
ALABAMA	11	30
ALASKA	222	10
ARIZONA	32	32
ARKANSAS	10	31
CALIFORNIA	53	91
COLORADO	21	34
CONNECTICUT	2	5
DELAWARE	1	1
WASHINGTON, DC	2	0
FLORIDA	50	130
GEORGIA	22	33
HAWAII	4	34
IDAHO	20	30
ILLINOIS	15	38
INDIANA	16	29
IOWA	13	34
KANSAS	11	28
KENTUCKY	13	34
LOUISIANA	19	40
MAINE	8	20
MARYLAND	2	8
MASSACHUSETTS	8	14
MICHIGAN	12	24
MINNESOTA	51	46
MISSISSIPPI	12	22
MISSOURI	21	28
MONTANA	31	47
NEBRASKA	4	9
NEVADA	22	19
NEW HAMPSHIRE	3	4
NEW JERSEY	3	14
NEW MEXICO	17	34
NEW YORK	31	46
NORTH CAROLINA	14	33
NORTH DAKOTA	9	16
OHIO	23	45
OKLAHOMA	23	36
OREGON	28	29
PENNSYLVANIA	17	59
RHODE ISLAND	0	2
SOUTH CAROLINA	3	21
SOUTH DAKOTA	8	17
TENNESSEE	31	37
TEXAS	66	108
UTAH	22	6
VERMONT	1	12
VIRGINIA	9	28
WASHINGTON	19	23
WEST VIRGINIA	2	8
WISCONSIN	17	15
WYOMING	26	16
GUAM	1	0
PUERTO RICO	7	6
VIRGIN ISLANDS	1	2

TOTALS: Licenses: 1,089
Construction Permits: 1,520

Transmitters

continued from front page

transmitters, performance is primarily determined by the exciter and the linearity of the one or more amplifiers that follow the exciter.

The exciter generates the channel signal and usually has about one watt of output. It consists of a video and audio modulator, an oscillator, a mixer, and low level amplifiers. The linearity of most solid state and tube type amplifiers allows the use of relatively simple exciters. The oscillator determines the frequency stability. Make sure the oscillator offered meets the need for 1000 Hz stability when an offset frequency is specified.

Linearity defines the amount of distortion introduced by the amplifier. A linear amplifier has very little distortion. Amplifier performance is a function of the class of operation, usually class A (the most linear) or class AB (less linear but more efficient).

Performance will also be affected by the design of the power supplies and the cooling system, both of which are essential elements of the transmitter design. For example, noise from the power supplies must be filtered well enough so it will not be perceptible in the video.

Comparing specifications is one way to check for performance, but in time, performance can drift with certain types of exciters and amplifier systems. If performance is important, it is best to be aware of the manufacturer's reputation. Talk to the manufacturer about his products, and check with users of similar equipment.

Solid State or Tube?

LPTV transmitters are limited to a maximum power output of 10 watts on VHF channels (with exceptions for up to 100-watt applications) and up to 1 kW on UHF channels (2 kW for circularly polarized antenna systems). Today virtually all equipment marketed for VHF LPTV applications is solid state. However, for UHF broadcasting, you have a choice.

Solid state devices — transistors or multiple transistors — theoretically have very long life, but tubes, as you know, burn out after a time. Tube replacements are a periodic maintenance cost. Some tubes last longer than others, but for LPTV type transmitters, the tube will last one year, possibly longer.

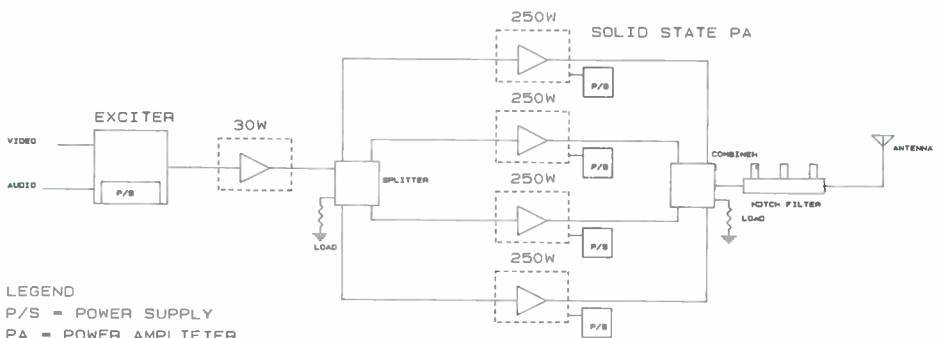
The average annual cost of 100-watt UHF tubes would be about \$600, and at 1 kW it would be \$3,500. This is only an average, and it does not include the cost of having a qualified engineer replace the tube and retune the amplifier. Depending on whether you have a local or an out-of-town engineer do the work, this can cost an additional \$500 to \$3,300. (It is also possible to purchase these services from the transmitter manufacturer.) You can use these numbers to figure the expenses or savings incurred by selecting a solid state system. But be careful not to oversimplify because there are other considerations.

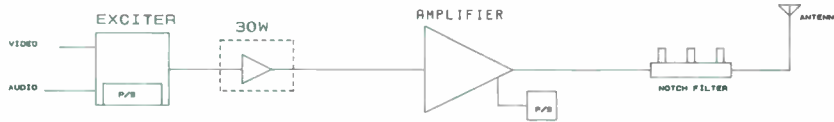
The principal advantage of a tube type system becomes a major disadvantage if it should fail when the station is broadcasting programs. Because the tube is a single point failure, when it goes, you are off the air. On the other hand, solid state amplifiers consist of multiple devices and multiple amplifiers, depending on the output power of the system. As a result, a single solid state device failure causes only a partial loss of power — insignificant in some cases. In addition, multiple power supplies dedicated to individual amplifiers furthers the parallel redundancy.

Sounds ideal, right? Why should there be a choice? Are there any trade-offs?

First and foremost, the solid state amplifiers must be reliable. Reliability should not be taken for granted. If the solid state amplifier has been well designed, with proven or well-tested devices and built-in thermal and overvoltage protection for the transistors, you will get years of service with much lower maintenance costs and no lost air time due to amplifier failure. Check with the manufacturer about his experience in the design of solid state amplifiers and his track record with the equipment offered.

Block diagram of a 1 kW UHF solid state LPTV transmitter. Courtesy of Acrodyne Industries, Inc.





Block diagram of a 1 kW UHF tube type LPTV transmitter. Courtesy of Acrodyne Industries, Inc.

Maintenance

Some solid state systems are built in a modular design that makes it easy to remove part of the amplifier for in-the-field or factory repair. For those broadcasters depending on the manufacturer for service, this can be a big plus. Even tube type systems can be easy or difficult to work on depending on their construction. This is something else that should be taken into account before you decide on a transmitter.

Diagnostics

If the system has shut down and you want to know why, status indicators will help. Solid state systems are more complicated than tube types; therefore, if something should go wrong, built-in diagnostics can be extremely helpful. Check this out before buying.

Cooling

If your needs are for a smaller transmitter (100-watt output or less), you will have to choose between convection cooling and forced air cooling. Keeping the system running cool at all times helps get the


best long-term reliability out of the equipment. Transmitters with class AB operated amplifiers are more efficient and, therefore, run cooler, which in turn reduces the need for blowers.

Support and Service

Your new transmitter will never fail! Unless lightning strikes . . . unless system maintenance is neglected . . . unless your air conditioner fails. Oh, and maybe a defect in material or workmanship creeps up on you.

In these and other cases, you may need help from the manufacturer. Is 24-hour service available? What about parts? Who is available for technical support? Sooner or later, you may need technical assistance from the factory.


As always, it's best to know what to expect before you buy. In the first place, it enables you to determine if the product meets your needs. In the second, it helps to prevent unpleasant surprises in the long run.

Joe Wozniak is sales and marketing manager for Acrodyne Industries, Inc., a Pennsylvania manufacturer of television transmitters. 

New Community Station To Serve Eastern Florida Coast

Martin County and Port St. Lucie, FL now have their own community broadcasting station, thanks to Channel 16 of Stuart.


WI6AR will serve the Martin County area of Port St. Lucie, Stuart, Jensen Beach, Palm City, Rio, Hobe Sound, Sellwalls Point, Ocean Breeze, and Port Salerno. The station plans to broadcast local news, special interview shows, public service programs, and special events.

Specific programming in the works is local high school sports (including football, basketball and baseball), city commission meetings, county commission meeting highlights, school board highlights, and state legislative actions. 

FCC Upholds \$10,000 Fine For Sponsorship ID Violation

The Federal Communications Commission has upheld its original decision to fine Southern California Broadcasting Company, licensee of KIEV(AM), \$10,000 for violating sponsorship identification rules. KIEV had broadcast promotional programs without announcing the name of the programs' sponsors.

KIEV asked the FCC to reduce the fine because the violation was inadvertent and because, after it was made aware of the offense, it had attempted to comply with the law.

But the Commission held that inadvertence is basically ignorance of the law — which is no excuse — and upheld the penalty. 

THE LEADER IS AT IT AGAIN!

State-of-the-art technology
and JAMPRO continue to
grow together . . .

We were on the cutting edge
when we developed the first
circular polarized television
antenna . . . and that tradition
continues today in our Low
Power series TV systems.

JAMPRO offers the LPTV
broadcaster a wide variety of
competitively priced anten-
nas, all of which contain the
technology and experience of
a company that has been the
leader in the industry for over
35 years.

**FOR THE MOST
COMPETITIVELY
PRICED QUALITY
LPTV ANTENNAS CALL**

(916) 383-1177
Fax (916) 383-1182



6340 Sky Creek
Sacramento, CA 95828

Circle (154) on ACTION CARD
LPTV Report / February 1992 / 11

Supplier Side

Bohbot Entertainment has added another animated series to its fall 1992 kids' line-up. The "Animated Classic Showcase" is an all-new monthly series of twelve one-hour classics such as "Treasure Island," "Jack and the Beanstalk," "Hiawatha," "The Brave Little Tailor," and many more.

Also part of the new fall package are "Amazin' Adventures," a Sunday morning block of four half-hour programs, and "The New Inspector Gadget and Goo Goo," a Monday-Friday animated strip featuring Don Adams as a bionic detective equipped with gizmos and gadgets galore.

Circle (65) on ACTION CARD

A new 15x lens from **Angenieux** is ideally suited for small studio applications where its extremely wide angle of 68.5° allows a surprisingly wide horizontal field of view. This effectively increases the useful studio floor area and permits operation in confined spaces.

The very close minimum object distance is particularly important for small studios where space is at a premium. The extreme wide angle allows an entire set to be covered with a very short distance between the front of the lens and on-air



The Angenieux 15x wide angle lens.

talent. The short distance also makes it easier for on-air talent to read a teleprompter.

The compact 15x lens weighs in at only 23 pounds, making it ideally compatible with today's lightweight CCD cameras. And it offers exceptional optical performance — a distortion of less than 1% from extreme wide angle to telephoto.

Circle (46) on ACTION CARD

Tektronix, Inc. has just introduced the 2711 Spectrum Analyzer, now the lowest priced product in the company's spectrum analyzer line. The 2711 incorporates many of the features of the recently introduced 2712 spectrum analyzer in a compact, 22-pound package that lends itself to multiple applications in the broadcast environment. The unit boasts an 80 dB display dynamic range, sensitivity to -129 dBm, true analog display, and digitally stored waveform display — features usually found on more costly equipment.



The Tektronix 2711 spectrum analyzer.

TV line and field triggering are standard in the 2711, as are built-in measurement functions for signal-to-noise, occupied bandwidth, signal search, and FM deviation. To aid signal monitoring and identification, audio demodulation and a headphone jack are also included.

The 2711 comes with a variety of options. A video demodulator permits viewing of any video line as well as rasterized TV images in NTSC or other standards. The demodulator's video and sync invert functions make it compatible with C-band and Ku-band downconverted satellite signals. Other options include a built-in frequency counter, a 1405 TV sideband adapter interface, and an inverter/battery pack.

Circle (58) on ACTION CARD

The **WPA Film Library** has just acquired rights to more than 100 hours of UFO-related materials. Used previously by producers of the documentary series, "Contact UFO," WPA's new holdings range from interviews with abductees to films of actual UFO's in flight. *continued*

What's Going On

February 7-8, 1992. Society of Motion Picture and Television Engineers 26th Annual Television Conference. Tutorial on new computer technologies, February 6. Westin St. Francis, San Francisco, CA. *Contact:* Ann Cocchia, (914) 761-1100.

February 7-8, 1992. National Association of College Broadcasters Midwest Regional Conference. Indiana University, Bloomington, IN. *Contact:* (401) 863-2225.

February 17-19, 1992. Broadcast Cable Credit Association's 27th Credit & Collection Seminar. Town & Country Hotel, San Diego, CA. *Contact:* Mary A. Ghiselli, (708) 827-9330.

February 29-March 2, 1992. ShowBiz Expo West. Los Angeles Convention Center, Los Angeles, CA. *Contact:* Live Time, Inc., (213) 668-1811.

March 12-15, 1992. National Federation of Community Broadcasters Annual Conference. Seattle, WA. *Contact:* Wendy Muzzy, (202) 393-2355.

March 20-22, 1992. National Association of College Broadcasters Fourth Annual Western Conference. University of Southern California, Los Angeles, CA. *Contact:* (401) 863-2225.

April 4, 1992. National Association of College Broadcasters Third Annual Mid-Atlantic Regional Conference. Luzerne County Community College, Nanticoke, PA. *Contact:* (401) 863-2225 or (717) 821-0932.

April 10-12, 1992. Television Bureau of Advertising 37th Annual Meeting. Las Vegas, NV. *Contact:* (212) 486-1111.

April 11, 1992. National Association of College Broadcasters Second Annual Southern Regional Conference. Middle Tennessee State University, Murfreesboro, TN. *Contact:* (401) 863-2225.

April 12-16, 1992. National Association of Broadcasters Annual Convention and Broadcast Engineering Conference. Las Vegas, NV. 1993 Convention, April 19-22, Las Vegas. *Contact:* (202) 429-5356.

April 22-24, 1992. Broadcast Cable Financial Management Association/Broadcast Cable Credit Association Annual Conference. The New York Hilton, New York City. 1993 Conference, April 28-30, Lake Buena Vista, FL. 1994 Conference, April 20-22, Town & Country Hotel, San Diego, CA. *Contact:* Cathy Lynch, (708) 296-0200.

May 3-6, 1992. National Cable Television Association Annual Convention. Dallas, TX. 1993 Convention, June 6-9, San Francisco, CA. *Contact:* (202) 775-3669.

May 14-16, 1992. National Translator Association Annual Technical Seminar. Salt Lake Hilton Hotel, Salt Lake City, UT. *Contact:* Darwin Hillberry, President, (307) 856-6827 or Gary Robinson, Seminar Chairman, (801) 575-7531.

May 27-30, 1992. American Women in Radio and Television 41st Annual Convention. Phoenix, AZ. *Contact:* (202) 429-5102.

June 14-17, 1992. Broadcast Promotion and Marketing Executives & Broadcast Designers Association Annual Conference & Expo. Seattle, WA. 1993 Convention, June 13-16, 1993, Orlando, FL. *Contact:* (213) 465-3777.

July 26-28, 1992. Wireless Cable Association International '92 Convention. Marriott Orlando World Center Hotel, Orlando, FL. *Contact:* Robert L. Schmidt, President, (202) 452-7823.

September 9-12, 1992. National Association of Broadcasters Annual Radio Convention. New Orleans, LA. *Contact:* (202) 429-5356.

September 23-26, 1992. Radio-Television News Directors Association Annual Convention. San Antonio, TX. *Contact:* (202) 659-6510.

October 14-17, 1992. Society of Broadcast Engineers National Convention. San Jose, CA. *Contact:* (317) 842-0836.

November 10-14, 1992. Society of Motion Picture and Television Engineers Annual Conference. Toronto. *Contact:* Ann Cocchia, (914) 761-1100.

November 1992. Community Broadcasters Association LPTV Conference & Exposition. Dates and location to be announced. *Contact:* Eddie Barker, (800) 225-8183.



“We needed a professional, satellite receiving system with the flexibility to access all available programming.”

*Brad Dobbs, Vice President of Operations,
TV 43, Waukesha, Wisconsin*

“So we chose VistaLink™. An automated satellite receiving system from Microdyne.

VistaLink is preprogrammable, letting me access any satellite and any transponder. Any time.

Plus, I have the option of operating VistaLink remotely. That way I can set the receiver and antenna without even leaving the station.”

VistaLink is a proven system backed by Microdyne. A pioneer in satellite technology with thousands of satellite receiving installations around the world.

For complete information on VistaLink and how Microdyne can help your LPTV business, call toll-free (800) 441-9084. Or write Microdyne Corporation, 491 Oak Road, Ocala, FL 32672.



At TV 43, primary programming is received on a fixed Microdyne antenna. The VistaLink antenna rotates to receive programming from other satellites.

The VistaLink system lets you receive any satellite—any program, transponder format, or frequency—as easily as you operate a VCR.



WorldRadioHistory

Circle (100) on ACTION CARD

Microdyne
Excellence in Communications Technology

The footage comes from a variety of sources. Foremost among them are the films of Daniel Fry, who claims that he himself experienced contact with aliens during the mid-1950's. His coverage includes UFO conferences held during the 50's and 60's, as well as films of actual UFO's in flight.



A UFO formation, shot over New York's Hudson Valley during the mid-70's. From the WPA Film Library.

WPA's footage also includes a series of interviews held in March 1991 with Betty Hill, who, along with her husband, Barney, reported being abducted by aliens.

The WPA Film Library is a stock footage organization. Its holdings include thousands of hours of archival materials including the British Pathe News Collection (1896-1970) and the fanciful Color Stock

Library of Lem Bailey (1950-1970). Sample materials are available upon request.

Circle (11) on ACTION CARD

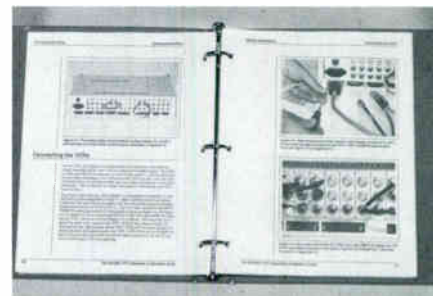
Cablewave Systems, manufacturers of Flexwell® transmission line, Bogner® antennas, and transmission accessories, has instituted a new 24-hour emergency hotline. The service features an emergency parts inventory that guarantees shipment of needed items in 24 hours or less, and a qualified technician on duty 24 hours a day to assist with orders and troubleshooting.

To order a free Cablewave emergency kit, . . .

Circle (78) on ACTION CARD

A new illustrated user's manual from **Channelmatic** makes learning and using the company's Adcart easier than ever. The *Installation and Operation Guide* features 204 pages and 135 illustrations. Designed for ad insertion novices and pros alike, the *Guide* explains the ad insertion process and gives an overview of Adcart's capabilities.

Following the overview is a step-by-step tour of site-preparation, installation, and system configuration procedures; the daily operation of the system; maintenance; and troubleshooting. Also covered are auxiliary functions like



The ADCART CCU Installation and Operation Guide, from Channelmatic.

auto-dubbing and modern communications, as well as supplementary information about interfacing with the programming networks.

A detailed Table of Contents and Index, and descriptive section headings provide easy access to information. Procedures are explained in plain English, not jargon, and accompanied by close-up photos of all cable connections and system controls.

Circle (21) on ACTION CARD

As part of a renewed emphasis on assisting broadcasters with stories about the environment, the **American Gas Association** has produced a 12½-minute "B-roll" videotape made up of generic shots of the natural gas industry in action. From drilling and pipeline construction to residential service calls and natural gas vehicle demonstrations, the tape provides video cover for stories about the industry. The tape contains natural sound but no narration.

The American Gas Association also produces a weekly news report and will assist with live expert or feature interviews.

Circle (86) on ACTION CARD

Paltex Imaging Systems has announced their new DYAD 1 and DYAD 2 digital mixers and keyers.

The DYAD 1 is designed for component digital facilities requiring mixing and keying capabilities, but where the cost of a switcher may be prohibitive. DYAD 1 is not intended to perform all of the functions of a complete video switcher, but it does include linear keying, mixes to keys, full screen mixes and cropping facilities.

DYAD 2 is a new composite digital mixer-keyer designed to bridge the gap between D2 and D3 digital VTR's and existing analog edit suites with linear keys, several mix styles and techniques, and digital functions. The system is available in both NTSC and PAL styles.

Also from Paltex is the EUROPA, a new development in video editing technology.

EUROPA features Paltex's E-Screens, providing for extremely fast EDL processing and management speed. EUROPA comes as a complete system, able to interface by a single connection with Ampex, BTS, JVC, Panasonic, and Sony RS-

Eagle-Lion Video Presents

HOLLYWOOD CLASSICS

Purchase from
an impressive library of over 1500 classic movies,
now available at VERY affordable prices.
Create your own movie library, with no limits on number of airings.

Award winning features include:

- John Wayne
- Cary Grant
- Jimmy Stewart
- Frank Sinatra
- Glen Ford
- Kirk Douglas
- Abbott and Costello
- Humphrey Bogart
- Charles Laughton
- Ronald Reagan
- Audrey Hepburn
- Walter Matthaw
- Elizabeth Taylor
- James Cagney



FOR A COMPLETE CATALOG, CALL (619) 281-9975 or write:
Eagle-Lion Video, 4569 Mission Gorge Place, Suite G, San Diego, CA 92120

Circle (96) on ACTION CARD

422 serial VTR's. It also features a new E-clips facility, which provides linear editor functions with the power of a non-linear system.

Circle (193) on ACTION CARD



Andrew Corporation has just published a new illustrated guide to electrical, building, and fire code requirements for coaxial cables and elliptical waveguides. The free, 6-page, four-color guide explains all requirements affecting cables and waveguides installed indoors.

Circle (15) on ACTION CARD



F

or High-Quality Video, Connect with Microwave Radio Corporation.

Discover how Microwave Radio Corporation offers you practical, quality wireless interconnections. Connect with us today:

TEL: (508) 250-1110

FAX: (508) 256-5215

Microwave Radio Corporation
20 Alpha Road
Chelmsford, MA 01824-4168



**Achieve Practical Solutions
to STL Requirements**

**High-Reliability and Low-Cost:
Links Starting at \$6200**

**Fixed and Portable Microwave
Systems from 1.7 to 40 GHz**

**The Leading Supplier for TV
and Video Applications**

Circle (134) on ACTION CARD

Interactive TV = Opportunity For Advertisers, Says Gallup

According to a new Gallup study, advertisers think interactive television is an important new advertising opportunity, especially because it can target ads to specific demographic or geographic groups.

The study — which was commissioned by Video Jukebox Network, Inc. — looked at video cassettes, interactive TV, and

other new media technologies, as well as more traditional avenues like broadcast, cable, and direct marketing. Eighty-one percent of the respondents knew about interactive TV, according to the study, and 62% are interested in it as an advertising vehicle.

Among the "very important" attributes of interactive TV are its ability to target

ads to specific groups (70% of ad executives listed this as a priority), the inherent involvement of the viewers (50%), and the potential for local promotional tie-ins (49%).

The respondents also said they planned to increase ad expenditures. Forty-four percent will increase their spending on cable systems; 24% will spend more on broadcast advertising; and 24% will increase their spending in new media such as interactive TV and video cassettes.

Finally, when asked what kinds of techniques interactive media might employ, 82% of the executives liked the idea of using the technology to print out coupons, 69% favored music videos with interactive telephone calls, 67% wanted to see real estate programs using interactive telephones, 61% thought interactive game shows would work well, 50% thought interactive TV could be used to connect jobs and job applicants, and 35% liked the idea of interactive children's programs.

Gallup surveyed 151 advertising executives and selected CEO's of the top 25 ad agencies and major consumer marketing companies.

KVC-TV, Austin CableVision Reach Agreement

Austin CableVision has added LPTV station KVC-TV13 to its channel lineup as of January 1 as part of an agreement reached with the station after KVC sued the cable system and its parent, American Television and Communications Corporation (ATC), last September alleging violations of antitrust and copyright laws (see *LPTV Report*, October 1991, page 26).

KVC is now carried on the cable system's channel 13 on the basic tier. Saleem Tawil, who owns the station with his wife, Carmen, said the terms of the settlement precluded him from revealing any details.

"All I can say is that we are very, very

pleased," he commented. "We're being carried on the basic tier; we were offered cable channel 6 but we decided to go with the same channel number as our over-the-air channel. That's all I can say, but we're extremely happy with the settlement."

The complaint had charged Austin CableVision with unauthorized carriage of sports programming to which KVC had exclusive rights, and then alienating KVC's viewers and advertisers by garbling the programs, showing incomplete programs, and blacking out the station's commercials and substituting its own.

CIRCULAR POLARIZATION

FULL MARKET COVERAGE

CUSTOM PATTERN MATCHING

ADVANCED TECHNOLOGY

EXCELLENT PERFORMANCE

RUGGED DURABILITY

ANTENNA CONCEPTS INC.
 3234 Saddlehill Court • Placerville, California 95667
 Phone (916) 621-2015 or FAX: (916) 622-3274

Circle (181) on ACTION CARD

...at the FCC

NEW LPTV LICENSES

The following LPTV stations received licenses on the dates shown. Station call sign, location, and the name of the licensee are also given.

- K21CX Tucson, AZ. Jana Tucker, 10/29/91.
- K19CL Inyokern, CA. William D. Britton, 10/29/91.
- K61FE Maui, HI. Susan Durch, 10/29/91.
- W33AY Springfield, IL. Richard D. Martin, 12/5/91.
- K58DS Alexandria, MN. Selective TV, Inc., 12/5/91.
- K60EJ Alexandria, MN. Selective TV, Inc., 12/5/91.
- W04CS Crandon, WI. Ronald La Verne Myers, 10/31/91.

LPTV LICENSE RENEWALS

The following LPTV stations received license renewals on the dates shown. Station call sign, location, and the name of the licensee are also given.

- K10MY Boise, ID. Women's LPTV Network, 10/30/91.
- K61AP Burley, ID. The Post Company, 10/30/91.
- K13LB Crouch, ID. Garden Valley Translator District, 10/30/91.
- K08JA Grimes Pass, ID. Garden Valley Translator District, 10/30/91.
- K47BW Lewiston, ID. KAYU-TV Partners, Ltd., 10/30/91.
- K03ET Terrace Lakes, ID. Garden Valley Translator District, 10/30/91.
- K05EY Terrace Lakes, ID. Garden Valley Translator District, 10/30/91.
- K09LB Terrace Lakes, ID. Garden Valley Translator District, 10/30/91.
- K11KS Terrace Lakes, ID. Garden Valley Translator District, 10/30/91.
- K23AS Aberdeen, WA. Trinity Broadcasting Network, 11/2/91.
- K45DA College Place, WA. Blue Mountain Broadcasting Association, 11/22/91.
- K49CN Richland, WA. Radiant Light Broadcasting, 11/22/91.
- K22BI Walla Walla, WA. Blue Mountain Broadcasting Association, 11/22/91.
- K27DD Walla Walla, WA. Blue Mountain Broadcasting Association, 11/22/91.

- K14BF Wenatchee, WA. Wescoast Broadcasting Company, 11/22/91.
- K30AJ Wenatchee, WA. Spokane Television, Inc., 11/22/91.
- K58DL Yakima/Toppenish, WA. Mel Kimmel, 11/22/91.
- K17CJ Yakima/Wapato, WA. Ronald Alan Theodore Bevins, 11/22/91.
- K60EB Yakima/Wapato, WA. Ronald Alan Theodore Bevins, 11/22/91.

NEW LPTV CONSTRUCTION PERMITS

The following parties received LPTV construction permits on the dates shown. Station call sign and location are also given.

- W52BJ Cullman, AL. ADC Communications, Inc., 12/6/91.
- W24BM Talladega, AL. TV Talladega, Inc., 10/29/91.
- K16CV Kingman, AZ. MW TV, Inc., 12/9/91.
- K31CK Tucson, AZ. Ponyland Broadcasting Company, 11/7/91.
- K67FJ Coleville/Topaz, CA. Mono County Office of Education, 11/19/91.
- K23DA Durango, CA. Karl Christopher Bartch, 10/30/91.
- K21DO Palm Springs/Indio, CA. Ota Lee Babcock, 10/29/91.
- K23CW Santa Cruz, CA. Peninsula Communications, Inc., 10/30/91.
- K47DV South Yreka, CA. California Oregon Broadcasting, Inc., 11/25/91.

BON MOT

Someone called television a medium. That's because it's neither rare nor well done.

Cousin Cynthia, Oconto County Times Herald, Oconto Falls, WI

- K58EC Eads, CO. Kiowa County, 11/21/91.
- W47BJ Fort Walton Beach, FL. WEAR-TV, Ltd., 10/29/91.
- W48BJ Lake City, FL. Henry J. McGinnis, 12/2/91.
- W45AY Live Oak, FL. Henry J. McGinnis, 11/21/91.
- W27BH Mobile/Pensacola, FL. Christian Brotherhood Broadcasting, 12/9/91.
- W60BU Old Town, FL. Henry J. McGinnis, 10/31/91.
- W68CM Panama City, FL. Warren Taylor Reeves, 12/9/91.
- W57BU Albany, GA. Brian N. Benschoter, 10/29/91.
- K56EX Honolulu, HI. Turnpike Television, 11/19/91.
- K60EN Kailua/Kona, HI. K. Sandoval Burke, 10/29/91.
- K30DU Ames, IA. Mike Heggen, 10/29/91.
- K55GD Waterloo, IA. Marshall J. Garrison, 12/6/91.
- K18DT Coeur D'Alene, ID. KHQ Incorporated, 11/21/91.
- K25DT McArthur, ID. Mountain TV Network, 10/30/91.
- K15DH Twin Falls, ID. Hector Leal, 10/29/91.
- K23DC Twin Falls, ID. Bob Jacobucci, 12/5/91.
- W36BI Champaign, IL. Professional Impressions Media Group, 11/22/91.
- W46BT Champaign, IL. Professional Impressions Media Group, 11/22/91.
- W41BL Effingham, IL. Lightning Broadcasting Company, 12/5/91.
- W63BT Evansville, IN. Dunn Broadcasting Company, 11/29/91.
- W65CK Evansville, IN. Dunn Broadcasting Company, 11/29/91.
- W27BG Jasper, IN. Paul E. Knies, 12/5/91.
- W39BM Jasper, IN. Paul E. Knies, 12/5/91.
- W12CO Kendallville, IN. C. P. Broadcasters, Inc., 11/8/91.
- W09BZ Bernstadt, KY. Andrea Joy Kesler, 11/6/91.
- K60EQ Monroe, LA. Robert W. Brewer, 11/22/91.
- K57FQ Shreveport, LA. Marjorie Sue Wallace, 12/2/91.
- W19BL Dover/Foxcroft, ME. Craig Ministries, Inc., 12/9/91.
- W15BD Thomaston/Rockland, ME. Three Eagles

Broadcasting Company, 10/30/91.
 W46BS Thomaston/Rockland, ME. Three Angels
 Broadcasting Company, 11/13/91.
 K48DV Alexandria, MN. Selective TV, Inc.,
 11/6/91.
 K50DB Alexandria, MN. Selective TV, Inc.,
 11/6/91.
 K25EI Appleton, MN. Prairieview TV, Inc.,
 12/9/91.
 K18DU Donnelly, MN. Tri County UHF, Inc.,
 12/4/91.
 K26DM Donnelly, MN. Tri County UHF, Inc.,
 12/4/91.
 K28DR Donnelly, MN. Tri County UHF, Inc.,
 12/9/91.
 K47DY Donnelly, MN. Televue Systems of
 Minnesota, 11/27/91.
 K35DK Granite Falls, MN. Minnesota Valley TV
 Improvement, 11/6/91.
 K45DJ Granite Falls, MN. Minnesota Valley TV
 Improvement, 11/6/91.
 K43DP Roseau, MN. Mountain TV Network, Inc.,
 10/30/91.
 K15DK Osage Beach, MO. William J. Harrower,
 12/9/91.
 K44DO Osage Beach, MO. New Life Evangelistic
 Center, Inc., 11/21/91.

K28DQ Sikeston, MO. New Life Evangelistic
 Center, Inc., 11/21/91.
 W26BB Vicksburg, MS. Kay Arwood, 12/9/91.
 K43DU Butte, MT. Big Horn Communications,
 Inc., 11/19/91.
 K59EM Chinook, MT. Blaine County Public
 Television, Inc., 12/2/91.
 K43DT Dutton/Power, MT. Teton County, 12/2/91.
 K34DO Joliet, MT. Joliet Public School District
 #7, 11/22/91.
 K30DV Jordan, MT. Garfield TV Club, 10/29/91.
 K24DD Plevna, MT. Plevna Public School
 Trustees, District #55, 11/14/91.
 K17CX Red Lodge, MT. Telecrafter Corporation,
 10/29/91.
 K21DN Red Lodge/Roberts, MT. Red Lodge
 Public School District #1, 11/22/91.
 K42DH Shepherd/Huntley, MT. Rural Television
 System, Inc., 11/22/91.
 K39DA St. Regis, MT. St. Regis TV Tax District,
 11/22/91.
 K31DD Twin Bridges, MT. Twin Bridges High
 School, 11/19/91.
 W69CM Fayetteville, NC. Interactive Television
 Corporation, 11/21/91.
 W33BA Wilmington, NC. Robert T. James,
 11/18/91.

K25EH Grand Forks, ND. Susan Easton,
 12/5/91.
 K63ER Turtle Mountain Indian Reservation, ND.
 Schindler Community TV Service, 12/2/91.
 K65FE Turtle Mountain Indian Reservation, ND.
 Schindler Community TV Service, 12/2/91.
 K67FM Omaha, NE. Jeffery L. Hamilton,
 11/21/91.
 W23AZ Hackettstown, NJ. Radio New Jersey,
 12/5/91.
 K45DL Albuquerque, NM. Joseph W. Shaffer,
 12/9/91.
 W61BO Watertown, NY. Monica Kimble, 11/7/91.
 K15DJ Lawton, OK. Cyril H. Miller, Jr., 11/21/91.
 K64DY Lawton, OK. Lawton LPTV, Inc., 11/21/91.
 K66EG Lawton, OK. Lawton LPTV, Inc., 11/21/91.
 K59EO Oklahoma City, OK. Cyril H. Miller, Jr.,
 11/21/91.
 K07VB Stillwater, OK. Mike Veldman, 11/21/91.
 K23DB La Grande, OR. Columbia River
 Television, Inc., 11/6/91.
 K55GC Portland, OR. City of Milton-Freewater,
 10/30/91.
 W24BN Clark's Summit, PA. Joseph S. and Irene
 F. Gans, 11/6/91.
 W08DF Honesdale, PA. Barbara J. Neuhaus,
 12/9/91.

continued

The Community Leader

Presenting another great innovation from TTC:

The XLS1000 Solid State 1 kW Transmitter:

Just what you would expect from the global leader in Community Broadcast Television.

TTC's Exclusive Solid State Design reduces power consumption, improves reliability and significantly lowers your operating costs.

Diagnostic and Control Intelligence continually self-corrects and compensates for adversities to insure you stay on the air.

The Most Extensive Remote Control in the industry lets you monitor and control 65 different operating parameters from anywhere in the world!

*To put the leader in your community call Jim Burns
 (303) 665-8000, ext. 456.*

A Global Force In Broadcast Transmission Technology



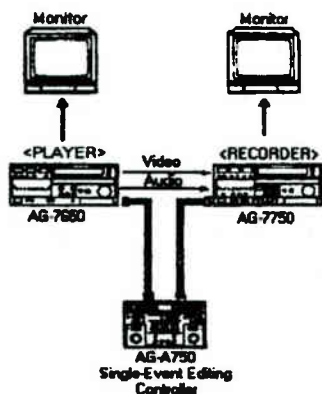
650 S. Taylor Ave. Louisville, CO 80027

Circle (7) on ACTION CARD
 WorldRadioHistory

Panasonic

Professional/Industrial Video

S-VHS



Video Editing Package

- CT-1382Y 13" Color S-VHS Monitors w/420 lines resolution
- AG-7650 S-VHS Source Player
- AG-7750 S-VHS Editing VCR
-Built-in Digital TBC -Jog/Shuttle Dial -4 Channel Audio
- AG-A750 Edit Controller -Full Function, Single-Event Editing

Call us for information about this system, MII format, video accessories and tapes.

SHOWCASE

• ATLANTA •

404-325-7676

800-736-1976

Ask about our single-frame animation service.

AMIGA

Commodore

- SYSTEMS•
- SERVICE•
- SOFTWARE•

Circle (158) on ACTION CARD

W69CD Jersey Shore, PA. Diversified Communications, 11/21/91.
 W54BO Kingston, PA. Kathy Potera, 11/19/91.
 W52BH Atlantic, SC. Interactive Television Corporation, 11/21/91.
 W55BX Garden City, SC. H. Leon Drye, Jr., 11/26/91.
 W21BB Cleveland, TN. Irene Perez Gerena, 12/5/91.
 K54DT Abilene, TX. Sage Broadcasting Corporation, 10/30/91.
 K09VR Austin, TX. The University of Texas at Austin, 11/19/91.
 K10NT Longview, TX. International Broadcasting Network, 11/8/91.
 K52EA San Antonio, TX. Agustin Torres, Jr., 12/9/91.
 K52DX Texarkana, TX. Kaye Arwood, 11/21/91.
 K20DL Tyler, TX. HCS Cable TV, Inc., 12/6/91.
 K43DV Victoria, TX. R. B. Sheldahl, 11/22/91.
 K67FK Whitehouse, TX. Kaye Arwood, 12/5/91.
 W39BN Farmville, VA. TV Broadcasters of Central Virginia, 12/9/91.
 W48BL Farmville, VA. TV Broadcasters of Central Virginia, 12/9/91.
 W61BZ Farmville, VA. TV Broadcasters of Central Virginia, 12/9/91.
 W11CI Staunton, VA. Todd S. Fenstermacher, 11/8/91.
 W03BB Wausau, WI. Oasis of Love Club, Inc., 11/14/91.
 W02CD Beckley, WV. H. Leon Drye, Jr., 11/21/91.

ASSIGNMENTS AND TRANSFERS

K43CA Quartzite, AZ. Voluntary assignment of license granted from American Television Network, Inc. to Trinity Broadcasting Network on 11/13/91.
 K04NJ Fresno, CA. Voluntary assignment of license granted from Jay Levin (Green Communications) to Gary Cocola on 11/18/91.
 K49CJ Colorado Springs, CO. Voluntary assignment of permit granted from Echonet Corporation to Telemundo of Colorado Springs, Inc. on 10/31/91.
 K65ET Denison, IA. Voluntary assignment of permit granted from Millard V. Oakley to Kingdom of God Ministries, Inc. on 12/6/91.
 K55FL Spencer, IA. Voluntary assignment of license granted from KMEG Television, Inc. to Maine Radio and Television Company on 11/5/91.
 K40CO Storm Lake, IA. Voluntary assignment of license granted from KMEG Television, Inc. to Maine Radio and Television Company on 11/5/91.
 W12CJ Mt. Carmel, IL. Transfer of control of Starlight Television Corporation granted from John E. Rhine to John E. Rhine, Stanton D. Ernest and Kevin C. Williams on 12/6/91.
 W18AU Schaumburg, IL. Voluntary assignment of permit granted from Caribbean Broadcasting Corporation to Burnett Broadcasting Corporation on 11/18/91.
 W62BM Louisville, KY. Transfer of control of Greater Louisville Broadcasting Corporation granted from Argie Dale and Allen Wheeler to Jerome Hutchinson, Sr. on 12/3/91.
 K13VE Baton Rouge, LA. Voluntary assignment of license granted from Classic Video Systems to Jeff Jacobsen on 11/5/91.
 W58BR Waldorf, MD. Voluntary assignment of permit granted from Video Jukebox Network, Inc. to Lura S. Madarang on 11/18/91.
 W47AG Rocky Mount, NC. Transfer of control of Family Broadcasting Enterprises granted from Victor Bruce Whitehead to Robert J. Pelletier on 11/25/91.
 W17BE Sparta, NJ. Voluntary assignment of permit granted from Oleg Matiash to WSUS Television, Inc. on 11/26/91.
 K52BS Santa Fe, NM. Voluntary assignment of license granted from Penny Drucker to Telemundo of Santa Fe, Inc. on 10/31/91.
 W47BD Findlay, OH. Voluntary assignment of permit granted from Charles H. Hutchinson and Richard H. Riggs to Findlay LPTV Partnership on 10/31/91.
 W67CA Lima, OH. Voluntary assignment of permit granted from Lima Television Company to Van Wert Television Company on 12/9/91.
 W36AY Zanesville, OH. Voluntary assignment of

permit granted from Zanesville Broadcasting Company to Trinity Broadcasting Network on 12/9/91.
 K22DP Bryan, TX. Voluntary assignment of permit granted from Ileana Luftop to Faith Pleases God Church Corporation on 11/18/91.
 K55FX Corpus Christi, TX. Voluntary assignment of permit granted from Norma Torres to Faith Pleases God Church Corporation on 11/18/91.
 K56EL Levelland, TX. Voluntary assignment of permit granted from South Plains College to Ramar Communications on 11/18/91. CBP

ATV Allotments

continued from page 8

plications should be granted on the same secondary basis that LPTV applicants are granted NTSC licenses today.

Citing the local service that LPTV stations bring to many small communities, the CBA said that the Commission "should make every effort to avoid displacing LPTV stations and should minimize any displacement that ultimately turns out to be necessary." It noted that as conventional stations install ATV transmitters and abandon their NTSC frequencies, more NTSC channels will become available and could be used by LPTV broadcasters, even in major markets.

Several individual LPTV broadcast licensees also cautioned the FCC about displacing operating LPTV stations providing local community programming in favor of ATV channels for conventional stations or their translators. Island Broadcasting, licensee of three LPTV stations serving more than four million New York City households with live local programming, pointed out that it had carefully engineered its stations to accommodate the FCC's interference criteria and that it would be unfair to impose a new set of "secondary status" ground rules" on LPTV stations "without taking the greatest care to preserve existing and proven LPTV programming services."

The CBA's reply comments, filed in January, attacked the assertion by the Joint Broadcasters — a group of large television entities including the National Association of Broadcasters, the Association of Independent Television Stations, and the major networks — that translators should be given priority over LPTV stations in any displacement proceedings made necessary by the ATV implementation.

Said CBA, "This is a narrow and self-serving viewpoint from a group dominated by large television stations, many of whom own translators and operate them to enhance the profits of the primary television station." Among other things, the CBA pointed out that translators are, by definition, *not* locally programmed and therefore that it would be contrary to the public interest standard of the Communications Act to give them priority over LPTV stations.

(See "LPTV and the Law," page 8, for a review of the FCC's Notice.) CBP

Classifieds

FOR SALE

LPTV construction permit for channel 5 in Madison, WI (K05JJ). Excellent top 100 market. Also one Scala TVO-8 eight-bay omnidirectional antenna tuned to channel 5. For additional information, call (813) 371-0024.

WARNING! We'll blow you away! Dimension Music, SFX & MIDI files, music for every budget, LP close-out, lifetime blanket license. Check us out now! For demo, call 27th Dimension, Inc., (800) 634-0091.

High-powered CP for sale: W29AU Coral Bay, Virgin Islands (60 kW ERP). Call (602) 582-6550, Charlene.

Used broadcast and studio equipment. TTC Link transmitter, 3/4" players, audio mixers, character and effects generator, and more. For complete list and prices, call (813) 371-0024.

For Sale: Construction permits for Houston, Salt Lake City, Oklahoma City, Corpus Christi, San Antonio. (818) 397-1191. Or write 726 Starlight Heights Drive, La Canada, CA 91011.

WANTED TO BUY

LPTV station in south Florida area. Call or write M. Greenberg, c/o Silvercup Studios, 42-25 21st St., Long Island City, NY 11101, Dept. T, (212) 349-9600.

HELP WANTED

General Manager opening at our 1 kW midwest LPTV station. Excellent opportunity for creative, sales and promotion minded leader. Write Ad Box 90, c/o LPTV Report, P.O. Box 25510, Milwaukee, WI 53225.

SERVICES OFFERED

Consulting. Manager highlighted in WSJ article on LPTV available for consulting. More than 8 years experience managing profitable LPTV's. For rates, contact Ken Shapiro at (312) 951-0871 or at 1636 N. Wells St., Chicago, IL 60614.

LPTV mailing labels. Reach all LPTV licensees, CP holders, applicants. Accurate, up-to-date marketing lists in your choice of format. Call Katie Reynolds at (414) 781-0188.

JOB-HUNTERS EMPLOYERS

Looking for a job in television? Need someone for that hard-to-fill position? Use **The LPTV Report** classifieds.

Employers, list your openings for only **\$10 a month**, a savings of as much as \$20 off the regular classified rates.

Job-seekers, advertise **FREE**.

Ads are limited to 50 words. Please send payment with your order. Ads will run once, unless renewed in writing.

Send your ad copy (and payment, if appropriate) to Katie Reynolds, *The LPTV Report*, P.O. Box 25510, Milwaukee, WI 53225.

CLASSIFIED RATES: All classified ads are payable in advance. When placing an ad, indicate the exact category you desire: *Help Wanted, Situations Wanted, Business Opportunities, Services Offered, Wanted to Buy, For Sale, Miscellaneous.* The publisher reserves the right to abbreviate, alter, or reject any copy.

Classified advertising is sold at the rate of 60¢/word. There is a \$20.00 minimum charge for each ad. Count each abbreviation, initial, single figure, or group of figures or letters as one word each. Symbols such as *mm, C.O.D., P.O.,* etc. count as one word each. Telephone numbers with area codes, and ZIP codes, count as one word each.

Business Card ad rates are \$50.00 per insertion for each column inch. Rate is discounted to \$45.00 per inch for three or more insertions. Classified Display rates are \$50.00 per column inch.

To place your order, call Jackie Biel at (414) 781-0188.

We now accept VISA/MASTERCARD orders.



Arent, Fox, Kintner, Plotkin & Kahn

Washington Square 1050 Connecticut Avenue, N.W.
Washington, D.C. 20036-5339

General Counsel to the
Community Broadcasters Association

Telephone (202) 857-6000 Telex WU 892672 Telecopier (202) 857-6395

ROBERT G. TRUSCOTT
President

TRUSCOTT BROADCAST SERVICES, INC.
TV Engineering Consultants

LPTV • Full Power • Microwave
Construction • Maintenance Contracts
618 Feather Sound Dr. Phone: 708-972-9658
Bolingbrook, IL 60440 Fax: 708-972-9648

ROBERT E. WINN
Director, Product Management
Antenna Operations



479 GIBBSBORO-MARLTON RD. PHONE 609-435-3200 EXT. 108
VOORHEES, NJ 08043 FAX 609-435-3204

Broadcasting Systems, Inc. Turnkey LPTV Construction

21617 North Ninth Avenue,
Suites 105 & 106
Phoenix, AZ 85027
(602) 582-6550
FAX (602) 582-8229

JOHN H. BATTISON, P.E. & ASSOCIATES

Consulting Low Power TV Engineers
2684 State Route 60, RD #1
Loudonville, Ohio 44842
Applications, Licensing, Turnkey
(419) 994-3849

SMITH and POWSTENKO

Broadcasting and Telecommunications
Consultants
2033 M Street N.W., Suite 600
Washington, D.C. 20036
(202) 293-7742

LPTV CONSULTANTS

SHAFFER COMMUNICATIONS GROUP
3050 Post Oak Boulevard
Suite 1700
Houston, Texas 77056-8526
Tel. (713) 621-4499 Fax (713) 621-5751

LPTV STATIONS COAST TO COAST

MEDIA BROKERS • APPRAISERS

RADIO • TV • LPTV
A Confidential & Personal Service

BURT **SHERWOOD** INC.

Illinois Office:
4171 Dundee Road • Suite 269
Northbrook, IL 60062

708-272-4970

Washington D.C. Office
Ellen Sherwood Lytle 9300 Arabian Ave. • Vienna, VA 22182
Tel 703-242-4276 • Fax 703-242-4277



INDEX TO ADVERTISERS

Use this handy chart to find the ad you're looking for. Then fill out the ACTION CARD bound in this magazine for FAST answers to all your questions.

COMPANY	PAGE	ACTION CARD NUMBER	ADVERTISER FACT LINE
3 dbm/SWR	9	75	(800) 279-3326
Acrodyne Industries, Inc.	5	18	(800) 523-2596
Andrew Corporation	4	79	(800) 255-1479
Antenna Concepts	16	181	(916) 621-2015
B & E Video Productions	2	196	(816) 452-3346
Eagle-Lion Video	14	96	(619) 281-9975
EMCEE Broadcast Products	7	1	(800) 233-6193
ITS Corporation	20	123	(412) 941-1500
Jampro Antennas	11	154	(916) 383-1177
Microdyne Corporation	13	100	(800) 441-9084
Microwave Radio Corporation	15	134	(508) 250-1110
Showcase	18	158	(800) 736-1976
Showplace	8	180	(312) 472-8828
Television Technology Corporation	17	7	(303) 665-8000