

GATES INTERCOM

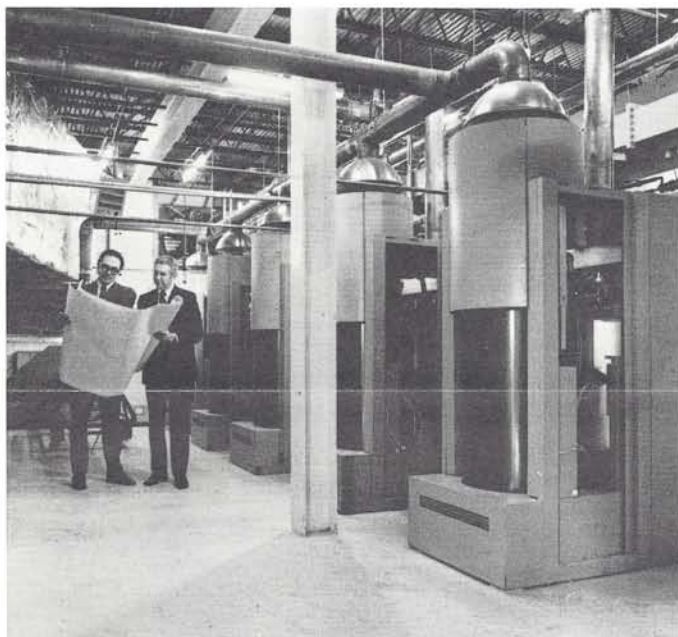
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VOLUME 4

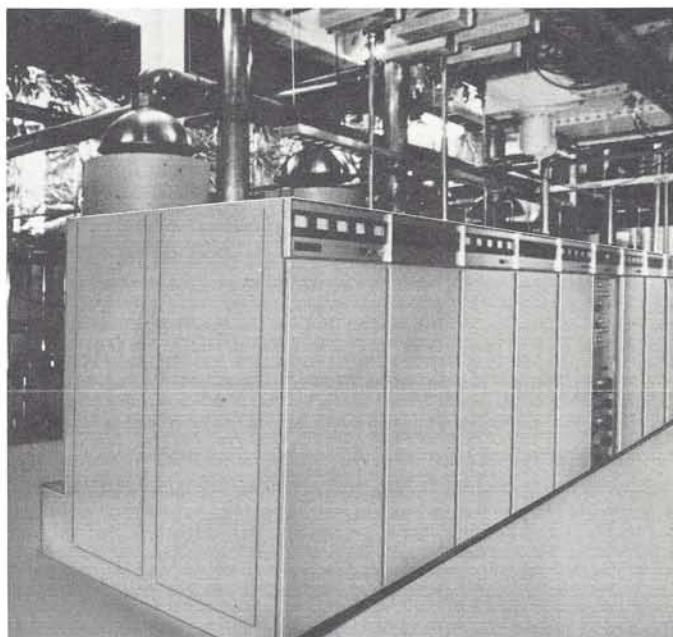
QUINCY, ILLINOIS

APRIL, 1971

WDCA-TV ON THE AIR WITH GATES' 220 KW MODEL — THE WORLD'S MOST POWERFUL TV TRANSMITTER



Milton Grant, Vice-President-General Manager of WDCA-TV and his Director of Engineering, Don Doughty (left) take a final look at the BT-220U transmitter installation charts.



Front view of "The World's Most Powerful TV Transmitter" as installed at WDCA-TV (UHF Channel 20) Washington, D.C.; on the air March 16, 1971.

In order to provide viewers with an equivalent or even stronger signal than its rival VHF stations, WDCA (UHF Channel 20), Washington, D.C. decided some time ago to increase its transmitter power to 220 kW—greater than anything that had been available before. The largest TV transmitter to date had been 110 kilowatts.

After much research, study and consultation with Gates Engineering and Sales personnel, WDCA-TV placed a contract for Gates to undertake the engineering feat that had only been talked about before. Design and manufacture began at our 30th Street plant in July, 1970 and the entire 220 kW transmitter was delivered to WDCA-TV in January, 1971.

The most powerful TV transmitter in the world, Gates' BT-220U, 220 kW color UHF

model, began full power operation in Washington, D.C. on March 16, 1971—with the power officially increased at an inaugural ceremony attended by Chairman of the FCC, Dean Burch. Gates' Vice President-General Manager, Lawrence J. Cervon; Ed Shuey, Gates' TV Sales Engineer; and Jim Aurand, Project Engineer for the BT-220U were also present at this important industry event. With the installation of the BT-220U, Mr. Milton Grant, Vice President-General Manager of WDCA, completed his plan to assure excellent color reception in the entire WDCA coverage area.

Now, only eight months from the time Gates obtained the contract, the "World's Most Powerful Television Transmitter" is a reality. Color, the way it was meant to be received . . . sharp, clear and brilliant . . . is

being transmitted approximately five times stronger in the Washington, D.C. metro area, and approximately four times stronger in all outlying counties.

Gates' personnel can be very proud of their part in this giant step in TV transmission. As documented in the October issue of the Intercom, we were faced with this challenge of developing and manufacturing a 220 kW transmitter in a relatively short period, and with everyone's help, the target date was met.

With this accomplishment, a new dimension has been added to Gates engineering and manufacturing talents, and our company has moved into an even stronger competitive position in the television broadcast equipment industry.



FOCUS
FOCUS
FOCUS
FOCUS

OUR NEW LEADERSHIP IN TELEVISION TRANSMITTERS

Certainly one of the highlights of this year's operation has been the success of our television program—the largest new product program in the company's history. Our entry into the TV equipment market was very carefully planned, and a great advertising and promotion job was done in introducing our broad line of VHF and UHF television transmitters to broadcasters on a worldwide basis.

Now, the years we have spent in developing our advanced television line are beginning to pay off in equipment sales. We have already received substantial orders from television stations in the USA, Canada and the Armed Forces Radio & Television Service (AFRTS)—and this fine volume has created new job opportunities throughout the company.

About twenty VHF and UHF TV transmitters have been ordered, and six VHF transmitters and one UHF transmitter are already on the air. Almost without exception, each transmitter was placed in service easily, without any check-out problems or delays—and has performed beautifully from the first day of transmission.

This has prompted many testimonial letters from customers. We can't quote them all, but a typical letter is one which a Chief Engineer wrote to a prospect who asked about his experience with the Gates' 35 kW VHF transmitter: "Yes, I would buy a Gates' TV transmitter again. I feel that the Gates' unit represents a state of the art transmitter. It puts us in the field of leadership."

Gates' engineering excellence has pioneered with IF MODULATION, and established our leadership in the VHF-TV transmitter field. Our company has also made a tremendous impact on the world television equipment market by developing the most powerful television transmitter ever built. This is the 220,000 watt Model BT-220U, which went on the air March 16 at WDCA-TV, Washington, D.C., operating on Channel 20.

The broad range of Gates' television transmitters was very evident to all television station engineers and station owners at the recent NAB Convention. We exhibited four television transmitters—the 50 kW VHF high band, the 25 kW VHF low band, the 55 kW UHF, and the 1300 watt VHF high band, which our engineers were operating to demonstrate performance capability to customers. Gates displayed more television transmitters than any other manufacturer, and this completeness of line made a tremendous impression on our customers—an impact which is bound to result in increased orders for us.

Much more will be heard about the growing line of Gates' television products. Meanwhile, we should all be proud of our engineering and marketing departments for the outstanding job done in developing and introducing the world's most advanced line of TV transmitters. We should also be proud of the excellent manufacturing skills employed in building these superb transmitters.

The television program marks the beginning of a bright new era in the company's history—an era in which we will all work together to see that Gates becomes the world leader in television equipment, just as it is now the leader in radio broadcast equipment.

Lawrence J. Cerwoy

Vice President-General Manager

BT-220U GETS FINAL CHECK AT WDCA-TV



WDCA-TV Director of Engineering, Don Doughty, gives a last minute check to the transistorized exciter that serves as the "heart" of the Gates BT-220U, color TV transmitter. Milton Grant, Vice President-General Manager, looks on with interest at this engineering and manufacturing accomplishment... the world's most powerful television transmitter... built by Gates.

FIRST 25 kW LOW BAND TELEVISION TRANSMITTER SHIPPED TO CKCO-TV



Paul Turchan, (center) Director of Engineering for CKCO-TV, Kitchner, Ontario, Canada and Howard Young are shown observing final acceptance tests conducted by Dan Maase. This transmitter will be installed in Wiarton, Ontario and will be operated by remote control from 90 miles away.

KUAM-TV ENGINEERING DIRECTOR VISITS 30th PLANT



Bill Beall, (left) Director of Engineering for KUAM-AM-FM-TV, Agana, Guam, visited with Jim Ruxlow and Roger Newell at the Gates factory to get first-hand information on how Gates equipment is built.

KUAM-TV operates on Channel 8 with Gates BT-5H, 5kW transmitter in service since September, 1970. KUAM has been a satisfied Gates customer for many years with our transmitters used in all three of its broadcast services.

SERVICE AWARDS



25 Years
John H. Beckgerd
Fabrication



25 Years
Frank G. Schnier
Engineering



20 Years
Joseph E. Woods
Houston Store



20 Years
Norma Jean Ellis
Sales



20 Years
Dorothea Lahrman
Engineering



15 Years
Stella Cuyler
Electronic Assembly



15 Years
Royllyn Wilson
Fabrication



15 Years
George W. Cribb
Sales



15 Years
Robert C. Zellerman
Shipping



15 Years
Bernice Boesing
Credit



10 Years
Donald H. Breuer
Stock



10 Years
Sherman H. Athey
Shipping



10 Years
Arnold J. Tate
Fabrication



10 Years
Hiram J. Hood
Repair and Support



10 Years
Dorothy Rosenkoetter
Manufacturing Adm.



10 Years
Helen Prisner
Electronic Assembly



10 Years
Leslie W. Hoskins
Maintenance



10 Years
Harry E. Cline
Sales



10 Years
Elizabeth Schultz
Production Control



10 Years
Thomas E. Cottrell
Repair and Support



10 Years
H. Dean Niederhauser
General Accounting



10 Years
Chester F. Prisner
Electronic Assembly



10 Years
Billy Gene Yochum
Engineering



10 Years
Robert L. Allensworth
Electronic Assembly



10 Years
Willard L. Lepper
General Accounting



10 Years
Joel E. Cole
District Manager



10 Years
William K. Ellis
Sales



5 Years
Viola Nixon
Automation



5 Years
Kenneth C. McKinley
Fabrication



5 Years
Sandra Porter
Sales



5 Years
Grace McGinnis
Purchasing



5 Years
Charles J. Huth
Material Control



5 Years
Robert K. Hoteling
Industrial Engineering



5 Years
Franklin H. Fries
Electronic Assembly



5 Years
Robert L. Gorjance
District Manager



1 Year
Rex E. Humrickhouse
Industrial Engineering

SERVICE AWARDS



1 Year
Marilyn Wagner
Industrial Engineering



1 Year
Audrey Wittler
Engineering



1 Year
David A. Orienti
District Manager



1 Year
Robert G. Bousman
Sales



1 Year
Helena Dauma
Sales



1 Year
Stanley E. Marquardt
Engineering



1 Year
Robert A. Switzer
District Manager



1 Year
James D. Mathes
Fabrication



1 Year
Henry E. Stafford
Fabrication



1 Year
Birney Fletcher
Fabrication



1 Year
Charles E. Cosgrove
Fabrication



1 Year
Dwayne E. Willems
Engineering



1 Year
Eldon L. Davidson
Shipping



1 Year
Lucille Hall
Industrial Engineering



1 Year
John S. Sellmeyer
Engineering



1 Year
Loy D. Archer
Final Test



1 Year
Ernest G. Mayo
Drafting



1 Year
Carl F. Gordon
Fabrication



1 Year
Fred W. Haushalter
Engineering



1 Year
Eugene A. Valetti
Data Processing



1 Year
Robert L. Beaver
Repair and Support



1 Year
Patricia Browning
Support Assembly



1 Year
Helen Hester
Repair and Support



1 Year
Ruthanne Twyman
Automation



1 Year
Suzanne Tipton
Support Assembly



1 Year
Janet Jones
Support Assembly



1 Year
Stephen J. Hemming
Production Engineering



1 Year
Luther L. Patrick
Fabrication



1 Year
Vicki Humphrey
Office Services



1 Year
Janice Benjamin
Electronic Assembly



1 Year
Marilyn Tournear
Sales



1 Year
Ruth Jones
Electronic Assembly



1 Year
Gary D. Alexander
Final Test



1 Year
Norman L. Schaller
Final Test



1 Year
Darla J. Tournear
Personnel



1 Year
Robert B. Daines
Automation



15 years
Charles Koch
Fabrication



5 years
Al Grady
Repair & Support



5 years
Zora Perkins
Quality Control



Ellen Broughton
N. Y. Service Center



Johnny Crabtree
Prtd. Crkt. Bd.



Venna McGlothlin
Cable Repair



5 years
Paul Schlinkman
Prod. Test

Service Awards



5 years
Archie Davidson
Manufacturing



Sandra Walker
Conveyor Assy.

New Employees



Marguerite Kolb
30th Lobby



5 years
Delores Gray
Static Assy.



5 years
Lee Shannon
Fabrication



1 year
Jerry Powell
TV Sales



Mary Kelly
Credit Dept.



Kenneth Campbell
Shipping Dept.

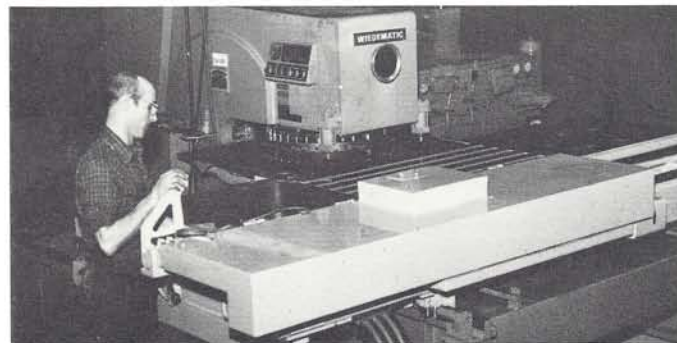


William Genck
Repair Dept.

GATES ADDS SECOND WIEDEMATIC MACHINE



Carol Daugherty amid paper work that accompanies the computer.



Ralph Jones makes trial run on the new Wiedematic machine.

In March, 1971, two weeks after order date, our second Wiedematic machine became operative. Our "New Baby" is a duplicate of the first machine that was purchased in 1968, except for a few minor improvements. This addition significantly increases the sheet metal capacity in Department 14.

Both machines operate from paper tapes that are prepared by Carol Daugherty, computer operator in Department 42. This computer was purchased in 1970 and cuts programming time to a minimum. It has a 6,000 bit core memory and is used for calculating angles, patterns and other punching dimensions.

As was the case with the first machine, a foundation had to be placed before the new Wiedematic could be set up. This footing measures 15'x22'x1'. Each machine occupies approximately 500 square feet of floor space, which meant a great deal of moving had to be done to make room for the new addition.

This second Wiedematic was critically needed at peak periods of production to meet Gates production schedules and the increasing demand for this type of work.

By using these machines, production accuracy has been greatly improved compared to previous results.

The first machine paid for itself in a year and a half and similar benefits are expected from this second machine. Both machines are now in operation two shifts per day. Thus, an area that had been a bottleneck in the past is now open for continued growth.

The four men who operate these machines are: Ralph Jones and Carl Gordon, day shift; and Dean Harness and Mike Hunsaker, second shift. Each man has been specifically trained to operate these machines as they are the only two in operation in this area.

GATES JUNIOR ACHIEVERS NEAR END OF REWARDING YEAR

General Products Youth Company, Gates JA Company for 1970-71, found that the business world did not "Promise Them A Rose Garden" as stated in one of today's popular songs. Much planning and work had to be put into the business to realize the extent of success that this company has achieved.

All that lies ahead now is a big finish in the sales line and the liquidation of the company. Most of these youngsters plan to be in Junior Achievement again next year, and thus take advantage of the three year program that is offered.

JA is truly the "Head Start Program" of today's business world, teaching the purchasing, manufacturing and money management of each individual business.



Gates Junior Achievers assemble for a tour of the 30th plant. Left to right, front row: Duke Walker, Rose Huber, Nancy Verhayden, Patty Bolte. Back row: Rog Veach, Bob Anderman, Greg Lewis, Kay Ellerbrock, Ron Pipken, Dean Niederhauser and Robert Fluent. Not available for picture: Don Taylor, Linda Burke, Lee Ann Hagerty and Bronson Bybee.

BASKETBALL?



Our first year in the Industrial League did not prove to be too great a success. Bob Vaughan seems to be wondering where the other half of the team can be. Missing at the time the picture was taken: Jim Williams, Dean Niederhauser, Rick Dick, Bill Watkins, Wayne Stepniak and Joe Muse. Those present are: John Inman, Mike Schmelzle, Duke Walker, Bob Vaughan, Pete Foxx, Jim Ogle and Jerry Thomas.

Our record was 5 wins and 8 losses. Like the Cubs say, "Wait Till Next Year".

BOWLING

Now that the season is drawing to a close, we would like to mention some of the women's high bowling scores that have been made known to us.

Don't forget

Ginny Jorgensen's scratch 183 with handicap 236

Clarice Bless's scratch 161 with handicap 232

High Individual Series with Handicap

Judy Gillette	706
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Pat Bybee	653
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Marcie Hayden	650
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Congratulations to Judy Gillette on winning the "Adams County Women's Heart Fund Tournament".

Chit~Chat

SILVER BELLS

The silver bells rang in the Engineering Department with much clarity on March 16. This was the 25th wedding anniversary for Cora Amen and her husband, Bill and also for Hardin Stratman and his wife, Bernice.

Cora and Bill celebrated with an open house held on March 21.

Hardin and Bernice were entertained at a party given by a group of friends.

PATENTS PENDING

Gates Engineering Department was well represented by the following announcements. Hardin Stratman recently was granted a Patent for a Modulated Oscillator as applied to a FM Transmitter.

Hilmer Swanson has received preliminary notification that a U. S. Letters Patent has been granted for his "Amplitude Compensated Pulse Duration Modulator" as applied to AM and HF transmitters.

Official Disclosures, the first step in the patent process, have been made in the last month by Dick Essex, Leon Stanger and Dan Dening for recent design developments.

SINCERE SYMPATHY

At this time we extend the Company's Sincere Sympathy to Bessie Epping in the loss of her husband and to Clarence Phillips who lost his father.

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