

EQUIPMENT LIST
FOR
AM BROADCAST STATION
WITH
250 WATT TRANSMITTER

Prepared by:
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In preparing this guide for the selection of equipment for a typical AM broadcast station, we have listed every major Gates item, as well as all accessory equipment required. For convenience, so that you may understand the investment at each location, this listing has been divided into the following groups:

- Transmitter Equipment
- Antenna Equipment & Tower
- Monitors
- Studio Equipment
- Optional Equipment

The same listing, except for the remote control equipment, will apply if the studios and transmitter are located in the same building or at separate locations. However, since the F.C.C. permits unattended operation of the transmitting equipment by remote control apparatus, the remote control equipment has been included so that should you plan this type of operation you will know the cost. Of course, the remote control equipment will not be required if the studios and transmitter are to be at the same location.

In order to obtain a new license, a directional antenna system may be necessary. Gates is the major manufacturer of directional phasing equipment and has the facilities and know-how to build your equipment to the highest standards, to save you money in the beginning, and to save you more money in the years to come in your freedom from many costly maintenance problems.

Since all phasing equipment is custom designed and built to your consulting engineer's specifications, actual prices are quoted to your particular requirement. Typical examples:

2 Tower, 1 kW, DA-1 Gates Standard Design....	\$3,800.00
3 Tower, 5 kW, DA-1 Gates Standard Design....	6,500.00

Every effort was made to prepare a complete listing of what will actually be needed to do a top-flight broadcasting job. Since many of the accessory items are mandatory in constructing a radio station and may be easily overlooked, we hope that the inclusive way in which this listing has been prepared will be helpful to you in the early stages of your planning.

We strongly recommend a contingent order policy for those filing with the F.C.C. for a new radio station. Our district manager will gladly explain the advantages, and will prepare a contingent order form in accordance with this proposal or any revision that you desire, and submit it to you for signature, after which there is no obligation of any kind to take delivery of the equipment until an actual final construction permit is issued by the F.C.C.

TRANSMITTER

1	Gates Model BC-250GY 250 Watt AM Broadcast Transmitter, with one set of tubes, tube rectifiers, and one crystal. For 50 Ohm output impedance.	\$4,995.00
1	TK-508 Set of Recommended Spare Tubes for BC-250GY Transmitter	99.50
1	Spare Crystal for BC-250GY	98.00
		<u>\$5,192.50</u>

TRANSMITTER AUDIO EQUIPMENT

1	Gates RAK-7 Rack Cabinet	\$140.00
1	Gates M-6543 Solid State Limiting Amplifier	675.00
1	Type CDM-4 Heavy Duty Power Block, 4 Terminals	1.75
1	Blank Panel, 7" x 19" C-15483-26	8.75
1	Blank Panel, 12½" x 19" C-15483-50	15.30
1	Blank Panel, 8-¾" x 19" C-15483-034	10.95
		<u>\$851.75</u>

ANTENNA EQUIPMENT & TOWER

1	Gates 44A Antenna Coupler for Series Fed Tower	\$500.00
1	Gates M-3937 Tower Lighting Choke, 2 Section Weatherproof	160.00
100	Ft. RG-17A/U Solid Dielectric 7/8" Coaxial Transmission line, 52 Ohms @ 85¢ per ft.	85.00
18000	Ft. Copper Ground Wire, Soft Drawn #10 @\$1.35 per lb. (1,000 ft.=31.4 lbs.). Including normal installation	1,303.00
1	Utility Antenna Tower, Type 140, 150' Insulated, non-galvanized, guyed, complete with guy wires, anchors, and including tower lighting equipment per FAA-A-1 specifications; with flasher and 300 mm beacon, photoelectric control, with approximate erection cost for 150' tower, including concrete foundation, painting and installation of lighting equipment. Complete estimated price based on "normal soil conditions". Total erected price for 150' tower, f.o.b. Oklahoma City, Oklahoma, or Mayfield, Kentucky.	2,412.00
	(Estimated freight charges within 500 miles, \$150)	
		<u>\$4,460.00</u>

Note:

We have used a 150' tower as a guide in estimating cost, only. Tower prices and erection vary as to height, depending upon frequency. As an example - a 200' guyed tower complete with erection is priced at \$3,266.00.

MONITORS

1	Gates M-4990 Frequency Monitor with Tubes	\$1,050.00
1	Gates M-6659 Modulation Monitor	795.00
1	Miratel EBS Monitor	<u>169.95</u>
		\$2,014.95

STUDIO EQUIPMENT

1	Gates M-6616 Yard II 8 Position Console, Complete	\$2,175.00
2	CB-77 12" Turntables @ \$199.50	399.00
2	M-6244 Transistor Equalized Preamplifier @ \$125.00	250.00
2	Gray 206-S 12" Tone Arm @ \$67.00	134.00
2	Shure M44-7 Stereo Cartridge (Outputs connected in parallel for monaural operation) @ \$19.95	39.90
3	Gatespeaker GRS-800 8" PM Type Loudspeaker @ \$8.95	26.85
3	Speaker Matching Transformer for GRS-800 @ \$5.25	15.75
3	DWB-8A Wall Cabinets for Speakers @ \$6.00	18.00
1	Gates Type G-300 Cardioid Microphone	53.50
2	Gates Type G-100 Microphone Dynamic Omnidirectional @ \$33.00	66.00
1	Atlas BS-36 Boom Stand	52.50
1	Atlas DS-7 Desk Stand	4.34
1	Flexo Mikester #1 Clamp-on Mike Stand	10.77
4	Cannon XLR-3-35 Wall Receptacles for Microphone @ \$7.85	31.40
4	Cannon XLR-3-12C Microphone Plugs @ \$1.90	7.60
4	Cannon XLR-3-11C Connectors @ \$2.15	8.60
100 Ft.	Gates MIC-100 2-Conductor #20 Microphone Cable, Jacketed @ 18¢ per ft.	18.00
500 Ft.	Belden 8451 Shielded Miniature Audio Cable @ 6¢/Ft.	30.00
1	Trimm Type 107 Headphone	7.20
1	Trimm No. 511 Phone Plug for Headphone	.80
2	RB89 Studio Clock @ \$12.95	<u>25.90</u>
		\$3,375.11

OPTIONAL EQUIPMENT

REMOTE BROADCAST EQUIPMENT

1	Gates Courier "70" Two Channel Transistor Amplifier, less Batteries	\$425.00
1	Trimm Type 107 Headphones	7.20
1	Trimm No. 511 Phone Plug	.80
1	Gates G-100 Microphone Dynamic Omnidirectional	<u>33.00</u>
		<u>\$466.00</u>

TAPE RECORDING EQUIPMENT

1	Ampex AG-600 Half-track Portable Tape Recorder, 7½ inches per second	\$720.00
1	Gates Criterion 80 Cartridge Playback Unit and Recording Amplifier, one tone, desk mount. (also available in rack mount)	1,198.00
1	Gates Criterion 80 Cartridge Playback Unit	798.00
25	A-300A Cartridge 40 Second @ \$2.35	58.75
25	A-300B Cartridge 70 Second @ \$2.50	<u>62.50</u>
		<u>\$2,837.25</u>

REMOTE CONTROL EQUIPMENT FOR UNATTENDED OPERATION

1	Typical Gates Model RDC-10AC Remote Control System for unattended operation of Gates transmitter and for use with Gates frequency monitor and modulation monitor. Supplied with extension meters, metering kits, diode rectifier, tower light indicator, and motor control, for adjustment of power output.	\$1,744.00
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Note:

If transmitter building is separate from studios, the F.C.C. may permit unattended operation of the transmitting equipment by remote control apparatus. The above equipment meets all F.C.C. requirements and provides full control and visual indications of the transmitter's functions.

TOTAL, OPTIONAL EQUIPMENT. \$5,047.25

T O T A L S

Gates BC-250GY, 250 Watt Transmitter and Associated Audio Equipment.	\$6,044.25
Antenna Equipment & Tower	4,460.00
Monitors	2,014.95
Studio Equipment	3,375.11
Optional Equipment	<u>5,047.25</u>
TOTAL FOR 250 WATT AM BROADCAST STATION EQUIPMENT.	\$20,941.56

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