

METERING TECHNIQUES FOR ELECTRONIC MAINTENANCE
OF MAIN RING RF STATION

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Figure 1 shows in single-line form the two stages of the power amplifier of each of the 16 rf systems. In order to provide proper and rapid maintenance of this equipment, the metering indicated under Tabulation I should be available for each of the 16 systems. Since all of the rf systems are identical one set of indicators is all that is required. Switching between the individual systems can be achieved economically by means of crossbar relays. The running time meters for the filaments and plates should be installed fixed for each station. The remaining meters and oscilloscope pictures, however, could be switched to a maintenance console which could be small enough to be mounted on wheels so that it could be rolled near an rf system requiring maintenance.

Metering Techniques for Electronic Maintenance of Main Ring RF Station

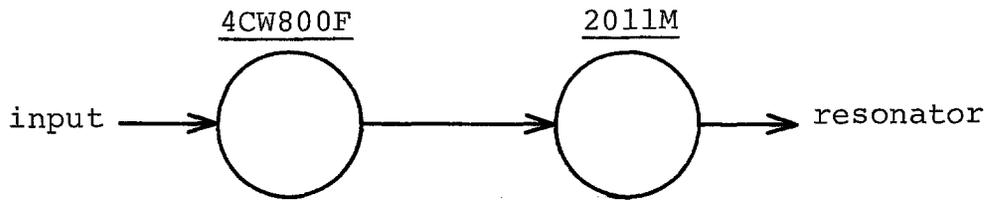


Figure 1

Tabulation I

1. Interlock chains -- reduce all 16 stations to one by crossbar.

2. Meter type indicators

2.1	2011M	Fil voltage	
	2011M	Fill hours	
	2011M	Plate hours	
	2011M	Fixed bias voltage	
	2011M	Screen voltage	from all 16 starting
	4CW800F	Plate voltage	through crossbar to
	4CW800F	Screen voltage	one set of meters

3. Scope type indicators

3.1	2011M	Plate current	
	2011M	Screen current	these can be reduced
	2011M	Grid r. f. voltage	from all 16 stations
	4CW800F	Plate current	by crossbar relay +
	4CW800F	Grid r. f. voltage	auxiliary relays to
	2011M	Plate Voltage	2 scopes
		Resonator gap voltage	
		Resonator ferrite bias voltage	
		Resonator ferrite bias current	
		2011M tuning indicator (phase let or time delay)	