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East Germany

SAG Label: Scientific Technical Office No 4 (EPDM)

The [redacted] four sets of technical specifications. [redacted] refer respectively to four development assignments given to EPDM by the USSR for 1952-1953. [redacted]

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Topic No 32 [redacted] calls for the development of the technology of resistor materials for the manufacture of variable resistors (wireless resistors), specifically of those suited for the production of heat-resistant and moisture-proof electrically conductive composite layers. The temperature coefficients of the electrical resistance of the conductive layer should not exceed $12 \cdot 10^{-4} / ^\circ\text{C}$ in the range -60 to $+100^\circ\text{C}$. The resistance of the layer should be between 50 and 500 $\text{k}\Omega/\text{cm}^2$.

Topic No 37 [redacted] calls for the development of a portable output meter for measurements on broadcast transmitters using non-symmetrical antennas. At a mismatching of 1,5, the measuring error should not exceed 10%. Two types of meters are to be developed, namely, for the ranges 0 - 500 w 25 amp, and for 0 - 2,000 w 50 amp. The instruments are to be in accord with Russian GOST standard 18/5-42 where applicable.

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Topic No (not given) [redacted] calls for the development of a resistor material displaying a highly negative temperature coefficient, specifically, such that with a temperature change from 40 to 100°C , a resistor made from such material will change its value from 115 to 120 ohm at the lower temperature, and to 35 - 70 ohm at the higher value. The resistors are to be 5 - 6 mm in diameter and 25 - 30 mm in length. They are to be used in remote thermometers of motor vehicles.

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Topic No (not given) [redacted] calls for the development of an output meter for supersonic frequencies, specifically for 5 to 300 kilocycles. It is to be used for the measurement of the effective output and the determination of the apparent output as well as of the cos from the ratio of the two outputs. The following measuring ranges are to be provided: current 0,5, 1, 2,5, 5, 10, 20 amp voltage 10,30, 100, 300, 600 v. Amps and voltmeters are to be part of the unit. Only such elements should be incorporated as are available in the USSR. As far as applicable, Russian GOST standards are to be observed.

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