



C.T.C. for Yugoslavian Railways

The Yugoslavian Railways have decided to install modern interlocking systems and centralized traffic control (CTC) on the very heavily trafficked Dobož-Zenica section comprising some 100 kilometres of the single track line between Brod and Sarajevo. L M Ericssons Signalaktiebolag has received an order for the equipment and will also supervise the work of installation.

The Dobož-Zenica section has twelve stations, each with three or four tracks. The traffic is very heavy, and the present capacity of the line is inadequate. The capacity will be increased, however, by the introduction of signalling equipment and CTC, which will render the section capable of carrying the heavier traffic that is anticipated within the next few years.

All stations will have relay interlocking plants, but only the four largest exchanges will be equipped with

local control panels that can be operated when the stations are disconnected from the CTC system. The CTC office will be located at Dobož, and all stations will normally be controlled from it.

Some ten road crossings will be protected by lifting gates and signals for automatic control by trains.

The CTC system will be of L M Ericsson's standard type with the illuminated track diagram separate from

the keyset type control panel. The CTC office will also have a train-graph.

The Dobož-Zenica plant will be completed in three stages and be fully installed by 1960.

Ericsson Technics

Ericsson Technics No. 2, 1956, has recently appeared. An article by Professor C G Aurell of the Chalmers University of Technology, Gothenburg, entitled "The Equivalent Transmission Line of a Linear Four-Terminal Network. Calculations with Cascade-Connected Four-Terminal Networks", describes a systematic procedure for the calculation of impedances and powers in cascade-connected four-terminal networks. The concept "equivalent transmission line" is extended to apply also to non-symmetrical and non-reciprocal four-terminal networks. The article "New Types of Sections for Zig-Zag Filters" by Professor T Laurent, of the Stockholm Institute of Technology, presents new types of band-pass sections named "zig-zig" and "zag-zag" sections which can be introduced into a zig-zag filter ladder without producing reflection. This provides full freedom in the choice of attenuation peaks in a filter ladder of this kind.

Finally, an article by H Häggblom and S Tomner of AB Svenska Elektronrör, Stockholm, "Developments of the Strophotron", describes the theoretical and experimental work done on the development of strophotron oscillators within the frequency range 1,000-5,000 Mc/s.



On the 100th Anniversary of the Swedish State Railways on December 1, 1956, Messrs. H Thorelli, H Lindberg, H Insulander and A Westling presented a deed of gift for 25,000 kronor from the Ericsson group to Erik Upmark, head of S.S.R. It is proposed that this sum shall be used for scholarships to S.S.R. staff for travel within Europe.