



WHEN the Minister of Broadcasting (Hon. F. Jones) and the Director (Mr. William Yates) travelled to Rotorua for the opening of 1YZ they also paid a visit of inspection to the transmitter site at Paengaroa, where this photograph was taken

structure, the remaining 130 feet of height being completely insulated from the first 370 feet. The two sections of the mast are electrically connected through a heavy copper inductance coil.

Engineers of the NZBS explain that when considering the coverage required, it is necessary to take into account the mutual effect of the two primary radiations from the aerial—the ground wave and the sky wave. The sky wave is reflected from the upper atmosphere, and is received at points a considerable distance from the aerial where interference takes place with reception of the direct ground wave, causing fading of the signal at the receiver. It has been found that to produce the best coverage, by giving a maximum strength to the ground wave and a minimum strength to the sky wave (thus increasing the distance from the aerial at which fading starts to take place) the length of the radiating system should be seven-twelfths of the wave-length of the station.

For the usual aerial system using a vertical mast, this would mean a physical mast height of about seven-twelfths of the wave-length of the station which, in the case of the Paengaroa transmitter, would be approximately 700 feet. The

cost of constructing a vertical steel mast increases very rapidly with height, and a 700 foot mast would be twice as high in cost as a 500 foot mast. By sectionalising the mast, and inserting the inductance coil between the two insulated sections, the "electrical length" of the system is maintained and the physical length is reduced by 200 feet, giving the same radiation performance at a substantially reduced cost.

The English Housewife

"MOST of all, the English housewife deserves praise. It is she who has had to battle with the hundred and one restrictions and shortcomings of daily life, and after nine years of it she is exceptionally cheerful about it all. I've been to many homes, and although the hostess has always apologised, and sometimes complained, about shortages, I've seen her cope with them most efficiently. Her meals have been frugal but dainty, and it is to her more than anybody else that the credit is due for England remaining the same. Her cheerfulness does not allow a visitor to see that England has changed."—Begum Ikram-Ullah giving BBC listeners her impressions of London.

SMILE, PLEASE

Teething worries are over. Mother's bought Steedman's Powders, the gentle, safe aperient. Keeps baby's bloodstream cool and habits regular.



Write Now for
FREE BOOKLET

"Hints to Mothers" Van
Staveren Bros. Ltd., Lr.
Taranaki St., Wellington

Give
**STEEDMAN'S
POWDERS**
FOR CONSTIPATION

37

YOU *too* CAN BE SLIM *and* Beautiful!



Just imagine yourself with a figure that is admired and envied! Imagine yourself being able to look this way, too! You can . . . and so easily, too . . . with the comfortable SLIMFORM Girdle. The miracle SLIMFORM with the patent perforations will quickly reduce unwanted bulges and surplus tissues, remoulding your figure into new beauty, new lines, and make you as you want to be . . . always slim and youthful.

Wear a SLIMFORM tailored to your individual measurements. If you're not satisfied after 10 days, return it to us, it costs you nothing.

POST THIS
COUPON
FOR
10 DAYS'
FREE
TRIAL

SLIMFORM GIRDLE CO. LTD., 1 Alston Chambers, 63 Queen Street, Auckland.	
Please send me particulars of your 10 days' FREE TRIAL offer and SLIMFORM literature. I enclose 2d in stamps.	
NAME _____	_____
ADDRESS _____	_____
_____	_____

SLIMFORM GIRDLE CO. LTD.