Safety protection device of communication green base station

How to reduce interference between 5G base stations and FSS earth stations?
To reduce the interference between 5G base stations (BSs) and FSS earth station (ES),a guard band protection methodis proposed. Additionally,the distance and angular protection methods are amalgamated. The performances are evaluated by simulation in realistic 3GPP. Also,the impacts of four antenna types are analysed for a 5G BS.

Does the guard band protect LTE-Advanced and FSS es?
The guard band strategy was used in to analyse the protection band and the angle of arrival for the coexistence of LTE-Advanced and FSS. The comparison of the different methods is shown in Table 1. In this paper, the guard band protection system is proposed to solve the influence between the 5G BSs and the FSS ES.

Do mobile phones need a base station?
Mobile phones and other mobile devices require a network of base stations in order to function. The base station antennas transmit and receive RF (radio frequency) signals,or radio waves,to and from mobile phones near the base station. Without these radio waves,mobile communications would not be possible.

Does guard band protection reduce neighbouring channel interference?
This study's contributions are as follows. (1) In order to reduce neighbouring channel interference,guard band protection is developed (10,50 and 90 MHz). (2) The effectiveness is compared with a combination of angular protection and distance protection for the 10 MHz guard band.

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