WHAT IS CLAIMED IS:

1. An information transmission method, performed by a user equipment (UE), comprising:

transmitting (201) power indication information to a base station, wherein the power indication information indicates UE power classes of a plurality of interfaces in a working frequency band and a total UE power class of the working frequency band, the working frequency band is a frequency band the UE performs new radio (NR) licensed spectrum service and NR sidelink (SL) service simultaneously, the interface comprises a Uu interface and/or a sidelink power class 5 (PC5) interface.

2. The method of claim 1, further comprising:

receiving (202) configuration information transmitted by a base station based on the power indication information; and

determining (203) a UE power configuration parameter of at least one of the plurality of interfaces based on the configuration information.

3. The method of claim 1, wherein the UE power configuration parameter comprises at least one of:

a maximum configuration power;

a permissible power back-off; or

a Specific Absorption Rate (SAR) regulation strategy.

4. The method of any one of claims 1-3, further comprising:

receiving a communication capability reporting request transmitted by a base station; and

in response to the communication capability reporting request, transmitting communication capability information, wherein the communication capability information indicates whether the UE is able to use more than one interface for data transmission in the working frequency band.

5. An information transmission method, performed by a base station, comprising:

receiving (501) power indication information transmitted by a user equipment (UE); and

determining (502) UE power classes of a plurality of interfaces in a working frequency band based on the power indication information and a total UE power class of the working

frequency band based on the power indication information, the working frequency band is a frequency band the UE performs new radio (NR) licensed spectrum service and NR sidelink (SL) service simultaneously, the interface comprises a Uu interface and/or a sidelink power class 5 (PC5) interface.

6. The method of claim 5, further comprising:

determining a UE power configuration parameter of at least one of the plurality of interfaces based on the power indication information; and

transmitting configuration information for indicating the UE power configuration parameter to the UE.

7. The method of claim 5, wherein the UE power configuration parameter comprises at least one of:

a maximum configuration power;

a permissible power back-off; or

a Specific Absorption Rate (SAR) regulation strategy.

8. The method of any one of claims 5-7, further comprising:

transmitting a communication capability reporting request to the UE;

receiving communication capability information transmitted by the UE in response to the communication capability reporting request; and

determining whether the UE is able to use more than one interface for data transmission in the working frequency band based on the communication capability information.

9. A user equipment (UE), comprising a processor, a memory storing programs executable by the processor, wherein when the programs are executed by the processor, the processor is caused to perform the information transmission method of any one of claims 1-4.

10. A base station, comprising a processor, a memory storing programs executable by the processor, wherein when the programs are executed by the processor, the processor is caused to perform the information transmission method of any one of claims 5-8.

11. A storage medium having executable programs stored thereon, wherein when the executable programs are executed by a processor, the processor is caused to perform the information transmission method of any one of claims 1-4.

12. A storage medium having executable programs stored thereon, wherein when the

executable programs are executed by a processor, the processor is caused to perform the information transmission method of any one of claims 5-8.