CLAIMS

1. A terminal for communicating with a base station apparatus, the terminal comprising:

a controller configured to set maximum transmission power based on Effective Isotropic Radiated Power (EIRP) of the terminal; and

a transmitter configured to transmit an uplink signal based on the maximum transmission power~~.~~, wherein the transmitter is configured to transmit information for reporting a power head room including information on the maximum transmission power related to antenna gain in a direction in which the terminal is performing transmission.

2. The terminal according to claim 1, wherein the ~~the~~ uplink signal is precoded.

3. The terminal according to claim 1 or 2, wherein the EIRP is peak EIRP of the terminal.

4. The terminal according to any one of claims 1 to 3, wherein the controller is configured to set the EIRP according to a power class of the terminal.

5. The terminal according to any one of claims 1 to 4, wherein the controller is configured to obtain the EIRP from EIRP in a peak direction of a transmission beam of the uplink signal.

~~6. The terminal according to any one of claims 1 to 5, wherein the transmitter is configured to transmit information for reporting a power head room including information on the maximum transmission power.~~

~~7~~6. A communication method by a terminal for

communicating with a base station apparatus, the communication method comprising:

———a process of setting maximum transmission power based on Effective Isotropic Radiated Power (EIRP) of the terminal; and

a process of transmitting an uplink signal based on the maximum transmission power.,

wherein information for reporting a power head room including information on the maximum transmission power related to antenna gain in a direction in which the terminal is performing transmission is transmitted.