CLAIMS

1. A method for wireless communications at a user equipment (UE), comprising: obtaining system information received from a base station, the system information including an indication of at least one configuration rule for power control parameter setting for random access; estimating a path loss of wireless communications between the base station and the UE based at least in part on one or more reference signals; selecting, based at least in part on the estimated path loss and the at least one configuration rule for power control parameter setting, a first transmit power for a physical random access channel portion of a random access message and a second transmit power for a physical uplink shared channel portion of the random access message; and transmitting the physical random access channel portion of the random access message over a physical random access channel and the physical uplink shared channel portion of the random access message over a physical uplink shared channel according to the first transmit power and the second transmit power, respectively.

2. The method of claim 1, wherein the at least one configuration rule for power control parameter setting indicates a set of path loss compensation factor values, further comprising: selecting a first path loss compensation factor value of the set of path loss compensation factor values for the physical random access channel portion of the random access message and a second path loss compensation factor value of the set of path loss compensation factor values for the physical uplink shared channel portion of the random access message, wherein selecting the first transmit power is based at least in part on the first path loss compensation factor value and selecting the second transmit power is based at least in part on the second path loss compensation factor value.

3. The method of claim 2, wherein the first path loss compensation factor value is different than the second path loss compensation factor value.

4. The method of claim 1, further comprising: identifying a first bandwidth and a first numerology for the physical uplink shared channel portion of the random access message, wherein selecting the second transmit power is based at least in part on the first bandwidth.

5. The method of claim 4, further comprising: identifying a second bandwidth and a second numerology for the physical random access channel portion of the random access message, wherein selecting the first transmit power is based at least in part on the second bandwidth.

6. The method of claim 1, wherein: identifying a first beam corresponding to the physical random access channel portion of the random access message and a second beam corresponding to the physical uplink shared channel portion of the random access message, wherein selecting the first transmit power and the second transmit power is based at least in part on a first beamforming scheme of the first beam and a second beamforming scheme of the second beam.

7. The method of claim 1, wherein the at least one configuration rule for power control parameter

setting indicates a set of target received power values, further comprising: selecting a first target received power value for the physical random access channel portion of the random access message and selecting a second target received power value for the physical uplink shared channel portion of the random access message, based at least in part on the set of target received power values, wherein selecting the first transmit power is based at least in part on the first target received power value and selecting the second transmit power is based at least in part on the second target received power value.

8. The method of claim 7, wherein the first target received power value is different than the second target received power value.

9. The method of claim 1, further comprising: identifying a payload size and a modulation and coding scheme (MCS) of the physical uplink shared channel portion of the random access message, wherein selecting the second transmit power is based at least in part on the payload size and the MCS of the physical uplink shared channel portion of the random access message.

10. The method of claim 9, further comprising: identifying a radio resource control (RRC) state for the UE, wherein identifying the payload size of the physical uplink shared channel portion of the random access message is based at least in part on the identified RRC state.

11. The method of claim 1, further comprising: monitoring, based at least in part on the random access message, for a response message from the base station; determining, based at least in part on the monitoring, that at least the physical random access channel portion of the random access message or the physical uplink shared channel portion of the random access message failed; and initiating, based at least in part on the at least one configuration rule for power control parameter setting and the determining, a power ramping procedure for the physical random access channel portion of the random access message or the physical uplink shared channel portion of the random access message.

12. The method of claim 1, further comprising: monitoring, based at least in part on the random access message, for a response message from the base station; determining, based at least in part on the monitoring, that the random access message has failed; and initiating, based at least in part on the at least one configuration rule for power control parameter setting and the determining, a first power ramping procedure for the physical random access channel portion of the random access message and a second power ramping procedure for the physical uplink shared channel portion of the random access message.

13. The method of claim 1, further comprising: selecting, based at least in part on the estimated path loss, a first set of resources for transmitting the physical random access channel portion of the random access message and a second set of resources for transmitting the physical uplink shared channel portion of the random access message, wherein the first set of resources corresponds to a group of UEs, and wherein the second set of resources corresponds to one of a first subset of UEs from the group of UEs, and the second set of resources corresponds to a

second subset of UEs from the group of UEs.

14. The method of claim 13, further comprising: selecting a sequence for transmitting the physical random access channel portion of the random access message based at least in part on the estimated path loss and the first set of resources.

15. The method of claim 14, wherein: selecting the sequence for transmitting the physical random access channel portion of the random access message is based at least in part on a comparison of the estimated path loss to a threshold.

16. The method of claim 15, further comprising: obtaining the threshold based at least in part on the system information received from the base station.

17. The method of claim 16, wherein each UE of the first subset of UEs has a first path loss that satisfies the threshold, and wherein each UE of the second subset of UEs has a second path loss that does not satisfy the threshold.

18. The method of claim 14, wherein: selecting the first set of resources and the second set of resources is based at least in part on a comparison of the estimated path loss to a threshold.

19. The method of claim 1, wherein estimating the path loss of wireless communications between the base station and UE based at least in part on the one or more reference signals further comprises: obtaining an indication of a set of reference signal types on which to perform measurements based at least in part on the system information received from the base station; and performing the measurements on the set of reference signal types based at least in part on the obtained indication, wherein estimating the path loss is based at least in part on a combination of the measurements.

20. The method of claim 19, further comprising: estimating the path loss based on an average value of the performed measurements.

21. The method of claim 19, further comprising: obtaining, based at least in part on the system information received from the base station, a set of weighted values corresponding to the set of reference signal types; applying the set of weighted values to the performed measurements to obtain weighted performed measurements; and estimating the path loss based at least in part on the weighted performed measurements.

22. The method of claim 19, wherein the set of reference signal types includes a synchronization signal block (SSB), a system information block (SIB), a downlink positioning reference signal (PRS), a channel state information reference signal (CSI-RS), or a combination thereof.

23. The method of claim 19, further comprising: identifying a first component carrier and a second component carrier, wherein the set of reference signal types are received on the first

component carrier; receiving a second set of reference signals on the second component carrier; and performing a second set of measurements on the second set of reference signals, wherein estimating the path loss on the first component carrier is based at least in part on the second set of measurements.

24. The method of claim 1, wherein the system information is received via a master information block (MIB), a remaining minimum system information (RMSI) message, a system information block (SIB), or a combination thereof.

25. A method for wireless communications at a base station, comprising: configuring at least one configuration rule for power control parameter setting for random access signaling from a user equipment (UE); transmitting system information to the UE, the system information including an indication of the at least one configuration rule for power control parameter setting for random access; and obtaining a random access message received from the UE, the random access message having a physical random access channel portion and a physical uplink shared channel portion, wherein the physical random access channel portion of the random access message is obtained according to a first transmit power over a physical random access channel and the physical uplink shared channel portion of the random access message is obtained according to a second transmit power over a physical uplink shared channel.

26. The method of claim 25, wherein the at least one configuration rule for power control parameter setting indicates a set of path loss compensation factor values.

27. The method of claim 25, wherein the at least one configuration rule for power control parameter setting indicates a set of target received power values.

28. The method of claim 25, further comprising: transmitting, to the UE, a response message for a successfully decoded random access message within a preconfigured time window.

29. The method of claim 25, further comprising: obtaining the physical random access channel portion of the random access message over a first set of resources; and obtaining the physical uplink shared channel portion of the random access message over a second set of resources, wherein the first set of resources corresponds to a group of UEs, and wherein the second set of resources corresponds to one of a first subset of UEs from the group of UEs, and the second set of resources corresponds to a second subset of UEs from the group of UEs.

30. An apparatus for wireless communications at a user equipment (UE), comprising: a processor, memory coupled with the processor; and instructions stored in the memory and executable by the processor to cause the apparatus to: obtain system information received from a base station, the system information including an indication of at least one configuration rule for power control parameter setting for random access; estimate a path loss of wireless communications between the base station and the UE based at least in part on one or more reference signals; select, based at least in part on the estimated path loss and the at least one

configuration rule for power control parameter setting, a first transmit power for a physical random access channel portion of a random access message and a second transmit power for a physical uplink shared channel portion of the random access message; and transmit the physical random access channel portion of the random access message over a physical random access channel and the physical uplink shared channel portion of the random access message over a physical uplink shared channel according to the first transmit power and the second transmit power, respectively.

31. An apparatus for wireless communications at a base station, comprising: a processor; memory coupled with the processor; and instructions stored in the memory and executable by the processor to cause the apparatus to: configure at least one configuration rule for power control parameter setting for random access signaling from a user equipment (UE); transmit system information to the UE, the system information including an indication of the at least one configuration rule for power control parameter setting for random access; and obtain a random access message received from the UE, the random access message having a physical random access channel portion and a physical uplink shared channel portion, wherein the physical random access channel portion of the random access message is obtained according to a first transmit power over a physical random access channel and the physical uplink shared channel portion of the random access message is obtained according to a second transmit power over a physical uplink shared channel.