CLAIMS

1. A method of wireless communication performed by a user equipment (UE), comprising:

identifying a transmit power control (TPC) command, associated with the UE, based at least in part on group power control downlink control information (DCI);

determining a loop index associated with the TPC command,

wherein the loop index identifies a power control loop, of a plurality of power control loops, for the TPC command; and

applying the TPC command to the power control loop based on a time gap that indicates a minimum amount of time between the UE receiving the group power control DCI and the UE applying the TPC command.

2. The method of claim 1, wherein the loop index is determined based at least in part on a bit, included in the group power control DCI, that is associated with a single TPC field included in the group power control DCI,

wherein the single TPC field includes the TPC command associated with the UE.

3. The method of claim 1, wherein the loop index is determined based at least in part on a radio network temporary identifier (RNTI) value associated with the UE.

4. The method of claim 3, wherein the RNTI value is associated with at least one of:

physical uplink shared channel (PUSCH) transmissions,

physical uplink control channel (PUCCH) transmissions, or

sounding reference signal (SRS) transmissions.

5. The method of claim 3, wherein the loop index is determined based at least in part on whether the RNTI value is an odd-numbered RNTI value or an even-numbered RNTI value.

6. The method of claim 3, wherein the loop index is determined based at least in part on a range of values, of a plurality of ranges of values, in which the RNTI value is included.

7. The method of claim 1, wherein the loop index is determined based at least in part on the loop index being signaled to the UE,

wherein the loop index is associated with a TPC index, associated with the TPC command, that is signaled to the UE.

8. The method of claim 7, wherein the loop index and the TPC index are signaled to the UE via radio resource control (RRC) signaling.

9. The method of claim 7, wherein the loop index is determined based at least in part on whether the TPC index is an odd-numbered value or an even-numbered value.

10. The method of claim 7, wherein the loop index is determined based at least in part on a range of values, of a plurality of ranges of values, in which the TPC index is included.

11. The method of claim 1, wherein the loop index is determined based at least in part on a bit, included in the group power control DCI, that is associated with a plurality of TPC fields included in the group power control DCI,

wherein the plurality of TPC fields includes a TPC field that includes the TPC command associated with the UE.

12. The method of claim 1, wherein the loop index is determined based at least in part on information indicating that the TPC command applies to each of the plurality of power control loops.

13. The method of claim 1, wherein the power control loop is applied in association with a semi-persistent uplink channel that does not include DCI.

14. The method of claim 13, wherein the semi-persistent uplink channel is associated with transmitting at least one of:

a semi-persistent scheduling (SPS) uplink communication;

a type-2 configured grant communication;

a periodic channel state information (CSI) report; or

a periodic sounding reference signal (SRS).

15. A user equipment (UE) for wireless communication, comprising:

memory; and

one or more processors operatively coupled to the memory, the memory and the one or more processors configured to:

identify a transmit power control (TPC) command, associated with the UE, based at least in part on group power control downlink control information (DCI);

determine a loop index associated with the TPC command,

wherein the loop index identifies a power control loop, of a plurality of power control loops, for the TPC command; and

apply the TPC command to the power control loop based on a time gap that indicates a minimum amount of time between the UE receiving the group power control DCI and the UE applying the TPC command.

16. The UE of claim 15, wherein the loop index is determined based at least in part on a bit, included in the group power control DCI, that is associated with a single TPC field included in the group power control DCI,

wherein the single TPC field includes the TPC command associated with the UE.

17. The UE of claim 15, wherein the loop index is determined based at least in part on a radio network temporary identifier (RNTI) value associated with the UE.

18. The UE of claim 17, wherein the RNTI value is associated with at least one of:

physical uplink shared channel (PUSCH) transmissions,

physical uplink control channel (PUCCH) transmissions, or

sounding reference signal (SRS) transmissions.

19. The UE of claim 17, wherein the loop index is determined based at least in part on whether the RNTI value is an odd-numbered RNTI value or an even-numbered RNTI value.

20. The UE of claim 17, wherein the loop index is determined based at least in part on a range of values, of a plurality of ranges of values, in which the RNTI value is included.

21. The UE of claim 15, wherein the loop index is determined based at least in part on the loop index being signaled to the UE,

wherein the loop index is associated with a TPC index, associated with the TPC command, that is signaled to the UE.

22. The UE of claim 21, wherein the loop index is determined based at least in part on whether the TPC index is an odd-numbered value or an even-numbered value.

23. The UE of claim 21, wherein the loop index is determined based at least in part on a range of values, of a plurality of ranges of values, in which the TPC index is included.

24. The UE of claim 15, wherein the loop index is determined based at least in part on a bit, included in the group power control DCI, that is associated with a plurality of TPC fields included in the group power control DCI,

wherein the plurality of TPC fields includes a TPC field that includes the TPC command associated with the UE.

25. The UE of claim 15, wherein the loop index is determined based at least in part on information indicating that the TPC command applies to each of the plurality of power control loops.

26. The UE of claim 15, wherein the power control loop is applied in association with a semi-persistent uplink channel that does not include DCI.

27. An apparatus for wireless communication, comprising:

means for identifying a transmit power control (TPC) command, associated with the apparatus, based at least in part on group power control downlink control information (DCI);

means for determining a loop index associated with the TPC command,

wherein the loop index identifies a power control loop, of a plurality of power control loops, for the TPC command; and

means for applying the TPC command to the power control loop based on a time gap that indicates a minimum amount of time between the apparatus receiving the group power control DCI and the apparatus applying the TPC command.

28. The apparatus of claim 27, wherein the loop index is determined based at least in part on a bit, included in the group power control DCI, that is associated with a single TPC field included in the group power control DCI,

wherein the single TPC field includes the TPC command associated with the apparatus.

29. A non-transitory computer-readable medium storing instructions for wireless communication, the instructions comprising:

one or more instructions that, when executed by one or more processors of a user equipment (UE), cause the one or more processors to:

identify a transmit power control (TPC) command, associated with the UE, based at least in part on group power control downlink control information (DCI);

determine a loop index associated with the TPC command,

wherein the loop index identifies a power control loop, of a plurality of power control loops, for the TPC command; and

apply the TPC command to the power control loop based on a time gap that indicates a minimum amount of time between the UE receiving the group power control DCI and the UE applying the TPC command.

30. The non-transitory computer-readable medium of claim 29, wherein the loop index is determined based at least in part on a bit, included in the group power control DCI, that is associated with a single TPC field included in the group power control DCI,

wherein the single TPC field includes the TPC command associated with the UE.