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(57) **Abrégé(suite)/Abstract(continued):**

maintain the apparatus at a constant temperature. The TPPL is configured to remove heat from the apparatus; the TES system is configured to provide thermal energy storage and temperature regulation; and the VCS is configured to transfer heat to the environment. The multiple thermal loads include a primary thermal load in the form of heat from the apparatus and a secondary thermal load in the form of at least one of a housekeeping thermal load or a power electronics thermal load. The primary and secondary loads are at different temperatures with each being independently selected to be transient or steady state.

