CLAIMS

1. A system for replacing electrolyte in a Metal-Air battery, comprising:

a first tank for holding off-board electrolyte;

a second tank for receiving on-board electrolyte;

fluid conduits to connect the first tank and the and the second tank to the battery; and

a controller to control transfer of the on-board electrolyte from the battery to the second tank and to control transfer of off-board electrolyte from the first tank to the battery.

2. A system according to claim 1, wherein the first tank includes a heating element and the controller is configured to control a temperature of the off-board electrolyte to be in a predetermined temperature range.

3. A system according to claim 1, further comprising a third tank for holding heated off-board electrolyte, wherein the third tank includes a heating element and the controller is configured to control a temperature of the off-board electrolyte in the third tank to be in a predetermined temperature range.

4. A system according to any of the preceding claims, further comprising a first unit to indicate if the connection of the conduits to the battery is safe.

5. A system according to any of the preceding claims, further comprising a communication unit to communicate with a controller of the battery to receive indication of the status of the electrolyte in the battery.

6. A system according to claim 5, wherein the controller is configured to prevent transfer of electrolyte between the system and the battery when the indication from the first unit ~~in~~ is not "safe".

7. A system according to any of the preceding claims, further comprising:

an intermediate electrolyte tank; and

a waste electrolyte tank.

21. ~~21A~~ A method according to any one of claims 14-20, further comprising:

connecting a plurality of metal air batteries to a system for replacing electrolyte in a battery, each of the batteries has an on-board electrolyte having an examined property exceeding a corresponding threshold value;

replacing each of the on-board electrolytes with an off-board electrolyte by:

transferring each of the on-board electrolytes to a second tank included in the system for replacing electrolyte in a battery; and

transferring an off-board electrolyte from a first tank included in the system for replacing electrolyte in a battery to each of the plurality of the metal air batteries.