## Claims

1. A method for large-scale, air cooled floating liquefaction, storage and offloading of natural gas, the method comprising:
    a) Gas gathering gas from onshore sources and treating the gas on shore by removal of mercury, removal of acid gas, dehydration and removal of C6+ hydrocarbons,
    b) onshore compression compressing and cooling of the treated gas of step a);
    c) piping of the compressed gas of step b) from onshore to an offshore pipeline end manifold;
    d) piping of the gas of step c) from the pipeline end manifold to an offshore ship-shaped, external-turret-moored vessel;
    e) reception of receiving the gas of step d) on the vessel via a swivel mounted on the a turret;
    f) distribution ofdistributing the gas of step e) to three parallel liquefaction trains on the vessel;
    g) liquefying the gas of step f)liquefaction by methane refrigerant and subsequent flash;
    h) cooling the gas of step g) from compressors by heat exchange with cooling water;
    i) heating the cooling water of step h) to 80°C or higher downstream process heat exchangers;
    j) cooling of the cooling water of step i) by heat exchange with air in air coolers:
    k)j) air coolers mounted on at least three mechanically independent cantilevers, in total extending at least 50% of the vessel length;
    l)k) recycling the cooled cooling water to process heat exchangers;
    m)l) providing gas turbine air intakes for liquefaction and utilities located on the opposite side of the at least three mechanically independent air cooler cantilevers;
    n)m) sending liquid natural gas ("LNG") that is not completely stabilized to storage tanks;

~~o)~~n) storing produced LNG in multiple smaller membrane tanks onboard the vessel;

~~p)~~o) flashing LNG in the storage tanks; and

~~q)~~p) offloading gas ~~offloading~~ to LNG tank vessels while the liquefaction processes are in full production.

2. The method according to claim 1, wherein the gas offloading of step p) is ~~done by means of~~performed via offloading arms located on the side of the ship~~-~~shaped, external turret~~-~~moored vessel being opposite of the cantilever air coolers.

3. The method according to claim 1, wherein the gas offloading of step p) is ~~done by means of~~performed via parallel offloading.

4. The method of claim 1, wherein the ~~gas is gathered~~gathering of step a) is from onshore pipeline networks.

5. The method of claim 1, wherein flash gas from the ~~LNG~~ storage tanks is used as fuel gas onboard the vessel.

6. The method of claim 1, wherein ~~the~~ water content in the gas received at step e) onboard the vessel is monitored~~,~~ and ~~that~~ the incoming gas is dehydrated before introduction into step f) if the water content of the gas is above a pre~~-~~set level.

~~6.~~7. The method of claim 1, wherein the steps are performed in the order listed.