Claims:

1. An offshore system for limiting structural damage to an affected offshore platform and preventing damage spread from the affected offshore platform to another platform during an accident or an emergency condition, comprising:

a mobile storage platform having a hydrocarbon storage facility;

a mobile offloading platform disposed at a first clearance distance from the mobile storage platform and having an offloading system for facilitating transfer of hydrocarbon fluid from the hydrocarbon storage facility to a carrier vessel which is positioned at the mobile offloading platform; ~~and~~

at least a first pipe connecting the mobile storage platform to the mobile offloading platform for allowing fluid communication of hydrocarbon fluid therebetween, wherein the first pipe is adapted to cease fluid communication of hydrocarbon fluid between the mobile storage platform and the mobile offloading platform~~.~~;

~~2. The system of claim 1, further comprising:~~

a mobile offshore production unit (MOPU) having a production facility, wherein the mobile offshore production unit is disposed at a second clearance distance from the mobile storage platform; and

at least a second pipe connecting the mobile offshore production unit to the mobile storage platform for allowing fluid communication of hydrocarbon fluid therebetween, wherein the second pipe is adapted to cease fluid communication of hydrocarbon fluid between the mobile offshore production unit and the mobile storage platform, wherein each of the mobile storage platform and the mobile offshore production unit includes a plurality of jack-up legs installed into a sea floor such that the mobile storage platform and the mobile offshore production unit are fixed bodies which are unaffected by wave motion.

2. The system of claim 1, wherein the mobile offloading platform includes a plurality of jack-up legs installed into a sea floor such that the mobile offloading platform is a fixed body which is unaffected by wave motion.

3. The system of claim ~~2~~1, wherein the hydrocarbon fluid is liquefied natural gas (LNG).

4. The system of claim 1, wherein the mobile storage platform further includes a production facility.

~~5. The system of claim 1, wherein the mobile offloading platform includes:~~

~~a cantilever movably mounted on the mobile offloading platform for providing an adjustable horizontal clearance distance from an edge of the mobile offloading platform;~~

~~an offloading system disposed on the cantilever, which includes:~~

~~a transfer skid comprising:~~

~~a skid frame;~~

~~a plurality of pipes which are rigidly attached to the skid frame,~~

~~a plurality of jack screw mechanisms for independently adjusting the pipes relative to the skid frame, each of the pipes having a first end and a second distal end;~~

~~a coupler provided at the first end of the each of the pipes to connect to the carrier vessel after installing the transfer skid on the carrier vessel;~~

~~an emergency release coupling provided at the second end of the each of the pipes;~~

a transfer hose connected between the emergency release coupling and the mobile offloading platform; and

a lifting system comprising:

an extendable lifting arm;

a spreader frame attachment which includes at least a lifting device to support the transfer skid, wherein the spreader frame attachment is rotatably coupled to the lifting arm to allow angular adjustment of the transfer skid in a horizontal plane.

6. The system of claim 5, wherein the coupler is adapted to connect a pipe extension installed on the carrier vessel, wherein the pipe extension includes a flexible expansion joint which is deflectable in an axial direction, a lateral direction and an angular direction to align with the coupler.

7. The system of claim 6, wherein the coupler and the emergency release coupling are arranged spaced apart so that after installing the transfer skid onto the carrier vessel, the coupler is disposed inboard the carrier vessel while the emergency release coupling is disposed outboard of the carrier vessel.

8. The system of claim 7, wherein the emergency release coupling is adapted to disconnect the transfer hose from the transfer skid which is installed at the carrier vessel by way of detaching a part of the emergency release coupling, and to allow the detached part of the emergency release coupling, together with the transfer hose connected thereto, to fall away from the transfer skid due to gravity force, and

wherein the detached part of the emergency release coupling is supported by the lifting system provided on the mobile offloading platform to limit the fall of the detached part of the emergency release coupling.

~~9. The system of claim 8, wherein each of the plurality of pipes is L-shaped.~~

~~10~~5. A method for limiting structural damage to an affected offshore platform and preventing damage spread from the affected offshore platform to another platform during an accident or an emergency condition, the method comprising:

disposing a mobile storage platform having a hydrocarbon storage facility at an offshore location, and having a plurality of legs installed into a sea floor such that the mobile storage platform is a fixed body which is unaffected by wave motion;

disposing a mobile offloading platform at a first clearance distance from the mobile storage platform, the mobile offloading platform having an offloading system for facilitating transfer of hydrocarbon fluid from the hydrocarbon storage facility to a carrier vessel which is positioned at the mobile offloading platform; and

connecting the mobile storage platform to the mobile offloading platform using at least a first pipe for allowing fluid communication of hydrocarbon fluid therebetween; ~~and~~

providing at least a first block valve in the first pipe which is adapted to cease fluid communication of hydrocarbon fluid between the mobile storage platform and the mobile offloading platform;~~.~~

~~11. The method of claim 10, further comprising:~~

disposing a mobile offshore production unit (MOPU), having a production facility, at a second clearance distance from the mobile storage platform, the mobile offshore production unit having a plurality of legs into a sea floor such that the mobile offshore production unit is a fixed body which is unaffected by wave motion;

connecting the mobile offshore production unit to the mobile storage platform using at least a second pipe for allowing fluid communication of hydrocarbon fluid therebetween; and

providing at least a second block valve in the second pipe which is adapted to cease fluid communication of hydrocarbon fluid between the mobile offshore production unit and the mobile storage platform.

6. The method of claim 5, wherein the mobile offloading platform includes a plurality of legs installed into a sea floor such that the mobile offloading platform is a fixed body which is unaffected by wave motion.

~~12~~7. The method of claim ~~11~~5, wherein the hydrocarbon fluid is liquefied natural gas (LNG).

~~13. The method of claim 10, further comprising:~~

~~providing a cantilever movably mounted on the mobile offloading platform for providing an adjustable horizontal clearance distance from an edge of the mobile offloading platform; and~~

~~disposing an offloading system on the cantilever, the offloading system including:~~

~~a transfer skid comprising:~~

~~a skid frame;~~

~~a plurality of pipes which are rigidly attached to the skid frame,~~

~~a plurality of jack screw mechanisms for independently adjusting the pipes relative to the skid frame, each of the pipes having a first end and a second distal end;~~

~~a coupler provided at the first end of the each of the pipes to connect to the carrier vessel after installing the transfer skid on the carrier vessel;~~

an emergency release coupling provided at the second end of the each of the pipes;

a transfer hose connected between the emergency release coupling and the mobile offloading platform; and

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a lifting system comprising:

an extendable lifting arm;

a spreader frame attachment which includes at least a lifting device to support the transfer skid, wherein the spreader frame attachment is rotatably coupled to the lifting arm to allow angular adjustment of the transfer skid in a horizontal plane.

14. The method of claim 13, wherein the coupler is adapted to connect a pipe extension installed on the carrier vessel, wherein the pipe extension includes a flexible expansion joint which is deflectable in an axial direction, a lateral direction and an angular direction to align with the coupler.

15. The method of claim 14, wherein the coupler and the emergency release coupling are arranged spaced apart so that after installing the transfer skid onto the carrier vessel, the coupler is disposed inboard the carrier vessel while the emergency release coupling is disposed outboard of the carrier vessel.

16. The method of claim 15, wherein the emergency release coupling is adapted to disconnect the transfer hose from the transfer skid which is installed at the carrier vessel by way of detaching a part of the emergency release coupling, and to allow the detached part of the emergency release coupling, together with the transfer hose connected thereto, to fall away from the transfer skid due to gravity force, and

wherein the detached part of the emergency release coupling is supported by the lifting system provided on the mobile offloading platform to limit the fall of the detached part of the emergency release coupling.

17. An offloading system for facilitating hydrocarbon fluid transfer between a mobile platform and a carrier vessel, the system comprising:

a transfer skid comprising:

a skid frame;

a plurality of pipes which are rigidly attached to the skid frame,

a plurality of jack screw mechanisms for independently adjusting the pipes relative to the skid frame, each of the pipes having a first end and a second distal end;

a coupler provided at the first end of the each of the pipes to connect to the carrier vessel after installing the transfer skid on the carrier vessel;

an emergency release coupling provided at the second end of the each of the pipes;

a transfer hose connected between the emergency release coupling and the mobile offloading platform; and

a lifting system comprising:

an extendable lifting arm;

a spreader frame attachment which includes at least a lifting device to support the transfer skid, wherein the spreader frame attachment is rotatably coupled to the lifting arm to allow angular adjustment of the transfer skid in a horizontal plane.

~~18. The offloading system of claim 17, wherein the coupler is adapted to connect a pipe extension installed on the carrier vessel, wherein the pipe extension includes a flexible expansion joint which is deflectable in an axial direction, a lateral direction and an angular direction to align with the coupler.~~

~~19. The offloading system of claim 18, wherein the coupler and the emergency release coupling are arranged spaced apart so that after installing the transfer skid onto the carrier vessel, the coupler is disposed inboard the carrier vessel while the emergency release coupling is disposed outboard of the carrier vessel.~~

~~20. The offloading system of claim 19, wherein the emergency release coupling is adapted to disconnect the transfer hose from the transfer skid which is installed at the carrier vessel by way of detaching a part of the emergency release coupling, and to allow the detached part of the emergency release coupling, together with the transfer hose connected thereto, to fall away from the transfer skid due to gravity force, and~~

~~wherein the detached part of the emergency release coupling is supported by the lifting system provided on the mobile offloading platform to limit the fall of the detached part of the emergency release coupling.~~