CLAIMS

1. A processing method of radiation-tainted water comprising:

a drilling step of carrying on drilling from a drilling vessel anchored or drifting on the sea away from the land toward the land side through the sea, the seabed, and the seabed ground in a drill pipe, carrying out the drilling through the below of a nuclear plant on the land reserving the radiation-tainted water while penetrating the nuclear plant, and bringing the drill pipe into contact with the radiation-tainted water, wherein the drilling by the drill pipe in the drilling step is achieved by a riser drilling and the drill pipe is penetrated into the seabed through a blow-out preventing device provided on the seabed; and

a radiation-tainted water transferring step of transferring the radiation-tainted water within the nuclear plant to a storage ship on the sea through the drill pipe and/or a transfer pipe which is communicated with the drill pipe, under a condition where a head difference exists between the nuclear plant on the land and the sea, wherein the transfer pipe includes a riser pipe between the nuclear plant and a blow-out preventing device provided on the seabed, connected through the below of a nuclear plant and the seabed ground, and an undersea transfer pipe between the blow-out preventing device and an external turret of the storage ship on the sea.

2. A processing method of radiation-tainted water comprising:

a drilling step of carrying on drilling from a drilling vessel anchored or drifting on the sea away from the land toward the land side through the sea, the seabed, and the seabed ground in a drill pipe, carrying out the

drilling through the below of a nuclear plant on the land reserving the radiation-tainted water while penetrating the nuclear plant, and bringing the drill pipe into contact with the radiation-tainted water, wherein the drilling by the drill pipe in the drilling step is achieved by a riser drilling and the drill pipe is penetrated into the seabed through a blow-out preventing device provided on the seabed;

a radiation-tainted water transferring step of transferring the radiation-tainted water within the nuclear plant to a storage ship on the sea through the drill pipe and/or a transfer pipe which is communicated with the drill pipe, under a condition where a head difference exists between the nuclear plant on the land and the sea, wherein the transfer pipe includes a riser pipe between the nuclear plant and a blow-out preventing device provided on the seabed, connected through the below of a nuclear plant and the seabed ground, and an undersea transfer pipe between the blow-out preventing device and an external turret of the storage ship on the sea; and

a gas injection step of sending inert gas or air into the nuclear plant through the drill pipe and/or the undersea transfer pipe which is communicated with the drill pipe in the process of transferring the radiation-tainted water to the storage ship or after the transfer.

3. A processing and sealing method of radiation-tainted water comprising:

a drilling step of carrying on drilling from a drilling vessel anchored or drifting on the sea away from the land toward the land side through the sea, the seabed, and the seabed ground in a drill pipe, carrying out the drilling through the below of a nuclear plant reserving the radiation-tainted water while penetrating the nuclear plant, and bringing the drill pipe into

contact with the radiation-tainted water, wherein the drilling by the drill pipe in the drilling step is achieved by a riser drilling and the drill pipe is penetrated into the seabed through a blow-out preventing device provided on the seabed;

a radiation-tainted water transferring step of transferring the radiation-tainted water within the nuclear plant to a storage ship on the sea through the drill pipe and/or a transfer pipe which is communicated with the drill pipe, under a condition where a head difference exists between the nuclear plant on the land and the sea, wherein the transfer pipe includes a riser pipe between the nuclear plant and a blow-out preventing device provided on the seabed, connected through the below of a nuclear plant and the seabed ground, and an undersea transfer pipe between the blow-out preventing device and an external turret of the storage ship on the sea; and

a solidifying material injection step of sending a solidifying material into the nuclear plant through the drill pipe and/or the undersea transfer pipe which is communicated with the drill pipe after~~in the process of transferring~~ the radiation-tainted water is transferred to the storage ship~~or after the transfer~~.

~~4. The method according to any one of claims 1 to 3, wherein the gas injection step of sending inert gas or air into the nuclear plant is achieved through the inert gas or air dedicated additional said transfer pipe(s).~~

~~5~~4. The processing and sealing method of the radiation-tainted water according to claim 3, wherein lead Pb is included into the solidifying material.

CLAIMS

1. A processing method of radiation-tainted water comprising:

a drilling step of carrying on drilling from a drilling vessel anchored or drifting on the sea away from the land toward the land side through the sea, the seabed, and the seabed ground in a drill pipe, carrying out the drilling through the below of a nuclear plant on the land reserving the radiation-tainted water while penetrating the nuclear plant, and bringing the drill pipe into contact with the radiation-tainted water, wherein the drilling by the drill pipe in the drilling step is achieved by a riser drilling and the drill pipe is penetrated into the seabed through a blow-out preventing device provided on the seabed; and

a radiation-tainted water transferring step of transferring the radiation-tainted water within the nuclear plant to a storage ship on the sea through the drill pipe and/or a transfer pipe which is communicated with the drill pipe, under a condition where a head difference exists between the nuclear plant on the land and the sea, wherein the transfer pipe includes a riser pipe between the nuclear plant and a blow-out preventing device provided on the seabed, connected through the below of a nuclear plant and the seabed ground, and an undersea transfer pipe between the blow-out preventing device and an external turret of the storage ship on the sea.

2. A processing method of radiation-tainted water comprising:

a drilling step of carrying on drilling from a drilling vessel anchored or drifting on the sea away from the land toward the land side through the sea, the seabed, and the seabed ground in a drill pipe, carrying out the

drilling through the below of a nuclear plant on the land reserving the radiation-tainted water while penetrating the nuclear plant, and bringing the drill pipe into contact with the radiation-tainted water, wherein the drilling by the drill pipe in the drilling step is achieved by a riser drilling and the drill pipe is penetrated into the seabed through a blow-out preventing device provided on the seabed;

a radiation-tainted water transferring step of transferring the radiation-tainted water within the nuclear plant to a storage ship on the sea through the drill pipe and/or a transfer pipe which is communicated with the drill pipe, under a condition where a head difference exists between the nuclear plant on the land and the sea, wherein the transfer pipe includes a riser pipe between the nuclear plant and a blow-out preventing device provided on the seabed, connected through the below of a nuclear plant and the seabed ground, and an undersea transfer pipe between the blow-out preventing device and an external turret of the storage ship on the sea; and

a gas injection step of sending inert gas or air into the nuclear plant through the drill pipe and/or the undersea transfer pipe which is communicated with the drill pipe in the process of transferring the radiation-tainted water to the storage ship or after the transfer.

3. A processing and sealing method of radiation-tainted water comprising:

a drilling step of carrying on drilling from a drilling vessel anchored or drifting on the sea away from the land toward the land side through the sea, the seabed, and the seabed ground in a drill pipe, carrying out the drilling through the below of a nuclear plant reserving the radiation-tainted water while penetrating the nuclear plant, and bringing the drill pipe into

contact with the radiation-tainted water, wherein the drilling by the drill pipe in the drilling step is achieved by a riser drilling and the drill pipe is penetrated into the seabed through a blow-out preventing device provided on the seabed;

a radiation-tainted water transferring step of transferring the radiation-tainted water within the nuclear plant to a storage ship on the sea through the drill pipe and/or a transfer pipe which is communicated with the drill pipe, under a condition where a head difference exists between the nuclear plant on the land and the sea, wherein the transfer pipe includes a riser pipe between the nuclear plant and a blow-out preventing device provided on the seabed, connected through the below of a nuclear plant and the seabed ground, and an undersea transfer pipe between the blow-out preventing device and an external turret of the storage ship on the sea; and

a solidifying material injection step of sending a solidifying material into the nuclear plant through the drill pipe and/or the undersea transfer pipe which is communicated with the drill pipe after the radiation-tainted water is transferred to the storage ship.

4. The processing and sealing method of the radiation-tainted water according to claim 3, wherein lead Pb is included into the solidifying material.