SUMMARY

[0004] Various nonlimiting examples provide methods and apparatuses for moving coils of flexible pipe using a pipe coil skid.

[0004a] According to an aspect, the present disclosure refers to a pipe coil skid, comprising: a plurality of beams affixably connected together to form a rectangular shaped base; a platform disposed within the rectangular shaped base, wherein the platform comprises a concave upward surface when the pipe coil skid sits on a horizontal surface to enable a coil of pipe positioned upon the platform to contact the platform within the rectangular shaped base; and a tie-down ring configured to enable a strap disposed within an interior channel of the coil of pipe to be secured to the pipe coil skid to facilitate securing the coil of pipe against the concave upward surface of the platform.

[0004b] In another aspect, the present disclosure refers to a method for using a pipe coil skid comprising: positioning a coil of pipe on a pipe coil skid, wherein the pipe coil skid comprises: a plurality of beams affixably connected together to form a rectangular shaped base; a platform disposed within the rectangular shaped base, wherein the platform comprise a concave upward surface shape when the pipe coil skid sits on a horizontal surface to enable the coil of pipe positioned on the pipe coil skid to contact the platform within the rectangular shaped base; and a tie-down ring; and securing the coil of pipe against the concave upward surface of the platform at least in part by inserting a strap through an interior channel of the coil of pipe and securing the strap to the tie-down ring of the pipe coil skid.

[0004c] In an example, a pipe coil skid comprises a plurality of beams affixably connected together to form a rectangular shaped base with a platform disposed within the base, the platform having a concave upward shape on its upward facing side when the skid sits on a horizontal surface such that the coil of pipe positioned upon the platform contacts the platform within the base. In other examples, the pipe coil skid has an upward facing side generally corresponding to the outer circumferential shape of a coil of pipe. The beams and the platform may be formed of a steel material. The platform may be coated with a non-stick material or a rubberized material.

The pipe coil skid may have a plurality of tie-down points for securing the coil of pipe. The pipe coil skid may have stackable corners disposed on the skids to enable stacking of pipe coil skids.

[0005] In other nonlimiting examples, a method for using a pipe coil skid comprising: securing a coil of pipe to a pipe coil skid, the skid comprising a plurality of beams affixably connected together to form a rectangular shaped base, and a platform disposed within the base, the platform having a concave upward shape on its upward facing side when the skid sits on a horizontal surface, such that the coil of pipe positioned upon the platform contacts the platform within the base. The coil may be lifted using a pipe coil lifting device disposed on a fork lift, a pipe coil lifting device secured by cable to a crane, an installation trailer for coiled pipe, or an expandable drum assembly for deploying coiled pipe. The skid may have an upward facing side generally corresponding to the outer circumferential shape of a coil of pipe. The beams and the platform are formed of a steel material and the platform may be coated with a non-stick material

or a rubberized material. The pipe coil is secured to the skid using straps. The coil and skid may be secured to a rail car. The skids may be stacked.

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CLAIMS

WHAT IS CLAIMED IS:

1. A pipe coil skid, comprising: a plurality of beams affixably connected together to form a rectangular shaped base; a platform disposed within the rectangular shaped base, wherein the platform comprises a concave upward surface when the pipe coil skid sits on a horizontal surface to enable a coil of pipe positioned upon the platform to contact the platform within the rectangular shaped base; and a tie-down ring configured to enable a strap disposed within an interior channel of the coil of pipe to be secured to the pipe coil skid to facilitate securing the coil of pipe against the concave upward surface of the platform.

2. The pipe coil skid of claim 1, wherein the concave upward surface of the platform generally corresponds to an outer circumferential shape of the coil of pipe.

3. The pipe coil skid of claim 1, wherein the plurality of beams and the platform are formed of a steel material.

4. The pipe coil skid of claim 1, wherein the platform is coated with a non-stick material.

5. The pipe coil skid of claim 1, wherein the platform is coated with a rubberized material.

6. The pipe coil skid of claim 1, further comprising another tie-down ring, wherein the strap is configured to be secured to the tie-down ring, inserted through the interior channel of the coil of pipe, and secured to the other tie-down ring to facilitate securing the coil of pipe against the concave upward surface of the platform.

7. The pipe coil skid of claim 6, further comprising an angled surface coupled between the platform and the rectangular shaped base, wherein the tie-down ring and the other tie-down ring are implemented on the angled surface.

8. A method for using a pipe coil skid comprising: positioning a coil of pipe on a pipe coil skid, wherein the pipe coil skid comprises: a plurality of beams affixably connected together to form a rectangular shaped base; a platform disposed within the rectangular shaped base, wherein the platform comprises a concave upward surface when the pipe coil skid sits on a horizontal surface to enable the coil of pipe positioned on the pipe coil skid to contact the platform within the rectangular shaped base; and a tie-down ring; and securing the coil of pipe against the concave upward surface of the platform at least in part by inserting a strap through an interior channel of the coil of pipe and securing the strap to the tie-down ring of the pipe coil skid.

9. The method of claim 8, further comprising lifting the coil of pipe using at least one selected from the list consisting of i) a pipe coil lifting device disposed on a fork lift, ii) a pipe coil lifting device secured by cable to a crane, iii) an installation trailer for coiled pipe, and iv) an expandable drum assembly for deploying coiled pipe.

10. The method of claim 8, wherein the concave upward surface of the platform generally corresponds to an outer circumferential shape of the coil of pipe.

11. The method of claim 8, wherein the plurality of beams and the platform are formed of a steel material.

12. The method of claim 8, wherein the platform is coated with at least one selected from the list consisting of i) a non-stick material and ii) a rubberized material.

13. The method of claim 8, wherein: the pipe coil skid comprises another tie-down ring; and securing the coil of pipe against the concave upward surface of the platform comprises securing the strap to the tie-down ring, inserting the strap through the interior channel of the coil of pipe, and securing the strap to the other tie-down ring.

14. The method of claim 13, wherein the pipe coil skid comprises an angled surface coupled between the platform and the rectangular shaped base, wherein the tie-down ring and the other tie-down ring are implemented on the angled surface.

15. The method of claim 8, further comprising stacking the pipe coil skid on top of another pipe coil skid.