CLAIMS

What is claimed is:

1. A transportable test system for testing hoses, other tubular products or fluid conduits, comprising:

   a control room module;

   a first IMR test module for inspection, maintenance and recertification with a clean fluid provider; and

   a second IMR test module for inspection, maintenance and recertification with a used fluid collector;

   wherein said control room module and said first and second IMR test modules comprise fasteners that permit assembly into a unitary package of predetermined overall size and shape of a container.

2 The transportable test system of claim 1 wherein said predetermined size and shape is that of a standard shipping container, and wherein said unitary package comprises an external lifting interface for moving and/or securing the unitary package.

3. The transportable test system of claim 2 wherein said lifting interface comprises one or more selected from a padeye, a shackle, a fork pocket, a tugger point, and a complete lifting set.

4. The transportable test system of claim 2 wherein said lifting interface comprises a lifting frame which together with said control room module and two test modules forms said unitary package with said predetermined size and shape of a standard shipping container.

5. The transportable test system of claim 1 further comprising a hose pressurization subsystem.

6. The transportable test system of claim 5 wherein said hose pressurization subsystem comprises one or more of a compressor or pump for pressurizing, filtration apparatus, individual test hose hook-up, and a manifold for multiple test hoses.

7. The transportable test system of claim 6 wherein said hose pressurization subsystem is housed in one or more of said modules.

8. The transportable test system of claim 1 further comprising a cleaning subsystem.

9. The transportable test system of claim 8 wherein said cleaning subsystem comprises one or more of a pump, filter, hose, nozzle and a power washer.

10. The transportable test system of claim 9 wherein said cleaning subsystem is housed in one of said modules for transport of the system.

11. The transportable test system of claim 1 further comprising a fluid containment subsystem.

12. The transportable test system of claim 11 wherein said fluid containment subsystem comprises a fluid collection apparatus and a reservoir housed in one or more of said IMR test modules.

13. The transportable test system of claim 1 further comprising a hose-lifting subsystem.

14. The transportable test system of claim 13 wherein said hose-lifting subsystem comprises at least one of one or more hose stands and a crane housed in or mounted on one or both of said IMR test modules.

15. The transportable test system of claim 14 wherein said hose stands are of varying or adjustable height and are stackable.

16. The transportable test system of claim 4 further comprising a hose restraint subsystem.

17. The transportable test system of claim 16 wherein said hose restraint subsystem comprises one or more of shackles, tethers, chains, an anti-whip or whip-check device for one or both hose ends, and use of the lifting frame to restrain and support a length of hose.

18. The transportable test system of claim 1 further comprising a control system housed in said control room module and adapted to implement a predetermined test protocol including carrying out a hose pressurization schedule, leak detection, and test report generation.

19. The transportable test system of claim 1 wherein said modules are each transportable as a standard shipping container.

20. The transportable test system of claim 1 wherein each of said IMR test modules comprises a stabilizer subsystem and a mobilizer subsystem.

21. The transportable test system of claim 20 wherein said stabilizer and mobilizer subsystems comprise extendable legs with leveling jacks and wheels.

22. The transportable test system of claim 1 further comprising a frame that facilitates assembly of said modules into said unitary package, said frame including attachment sites for lifting said package as a unit.

23. The transportable test system of claim 22 wherein said frame is adapted to support and restrain a section of hose during testing.

24. The transportable test system of claim 22 wherein said frame assembles with said modules as the top portion of the unitary package.

25. The transportable test system of claim 22 wherein said frame assembles with said modules as the bottom portion of the unitary package.

26. A method of testing a hose provided for the transportable test system of any preceding claim comprising:

cleaning said hose;

inspecting said hose;

connecting said hose between two test modules at least one of which is fluidly connected to a high-pressure fluid source and a control module;

restraining each hose end to a respective one of said test modules;

pressurizing said hose with a test fluid according to a predetermined test protocol;

detecting leaks from said hose if present; and

draining said test fluid from said hose into a reservoir housed in one of said test modules.

27. The method of claim 26 wherein said pressurizing comprises pumping said test fluid from a supply reservoir in one of said test modules into said test hose via a high-pressure pump housed in a control module.

28. The method of claim 27 wherein said control module further houses a computer which carries out said test protocol, implements a leak detection routine, and generates a report of the test results.

29. The method of claim 28 wherein said control module, and said two test modules are assembled, optionally with a lifting frame, to form a transportable, standard-size, shipping container.