CLAIMS:

1. A method comprising:

removing a damaged portion (84) of a coversheet (78) from a dual walled component (72) to expose a plurality of exposed pedestals (98) and define a repair location (94) and an adjacent coversheet (78) portion, wherein the dual walled component (72) comprises a spar (74) comprising a plurality of pedestals (76) and the coversheet (78), wherein the coversheet (78) is attached to the plurality of pedestals, and wherein the plurality of exposed pedestals (98) is from the plurality of pedestals (76); and

attaching a material to the plurality of exposed pedestals (98) and adjacent coversheet portion using directed energy deposition material addition to form a repaired coversheet portion (102).

2. The method of claim 1, wherein the material comprises a preformed replacement coversheet portion, and wherein attaching the material to the plurality of exposed pedestals and the adjacent coversheet portion using directed energy deposition material addition comprises:

positioning the preformed replacement coversheet portion at the repair location;

directing energy at each of a plurality of locations at which the preformed replacement coversheet portion is adjacent to the plurality of exposed pedestals to join the preformed replacement coversheet portion to the plurality of exposed pedestals; and

providing powder to a side of the preformed replacement coversheet portion opposite of the plurality of exposed pedestals, wherein the energy joins at least some of the powder to the preformed replacement coversheet portion at at least one location adjacent to an exposed pedestal of the plurality of exposed pedestals.

3. The method of claim 2, wherein the powder substantially fills a depression in the preformed replacement coversheet portion made from joining the preformed replacement coversheet portion to the exposed pedestal.

4. The method of claim 1, wherein the material comprises a powder, and wherein attaching the material to the plurality of exposed pedestals and the adjacent coversheet portion using directed energy deposition material addition comprises:

filling space between the plurality of exposed pedestals with a stop material, wherein the stop material defines a surface substantially aligned with a pedestal-contacting surface of the adjacent coversheet portion;

directing a powder to the surface of the stop material;

directing energy to the powder at locations adjacent to the stop material, the plurality of exposed pedestals, and the adjacent coversheet portion to form the repaired coversheet portion by directed energy deposition material addition.

5. The method of any one of claims 1 to 4, wherein the repaired coversheet portion comprises an alloy substantially similar to the alloy of the adjacent coversheet portion.

6. The method of any one of claims 1 to 5, wherein removing the damaged portion of the coversheet comprises removing at least a damaged portion of at least one pedestal of the plurality of pedestals, wherein the coversheet is attached to the at least one pedestal prior to removing the damaged portion of the coversheet.

7. The method of any one of claims 1 to 6, wherein removing the damaged portion of the coversheet comprises removing an undamaged portion of the coversheet, wherein the undamaged portion of the coversheet is adjacent to the damaged portion of the coversheet.

8. The method of any one of claims 1 to 7, further comprising:

forming at least one film cooling hole in the repaired portion of the coversheet.

9. A dual walled component (72) comprising:

a spar (74) comprising a plurality of pedestals (76); a coversheet (78) attached to a first set of pedestals (76) from the plurality of pedestals; characterized in that the dual walled component further comprises:

a repaired coversheet portion (102) attached to a second set of pedestals (98) from the plurality of pedestals (76) and to the coversheet (78), wherein the repaired coversheet portion (102) includes material attached using directed energy deposition material addition.

10. The dual walled component of claim 9, wherein the repaired coversheet portion comprises a preformed replacement coversheet portion and the material attached using directed energy deposition material addition, wherein the material attached using directed energy deposition material addition is disposed in depressions in the preformed replacement coversheet portion.

11. The dual walled component of claim 9, wherein the repaired coversheet portion comprises powder joined using directed energy deposition material addition.

12. The dual walled component of any one of claims 9 to 11, wherein the coversheet and the repaired coversheet portion comprises the same alloy.

13. The dual walled component of any one of claims 9 to 12, wherein the coversheet and the repaired coversheet portion comprise a plurality of film cooling holes.

14. The dual walled component of any one of claims 9 to 13, further comprising a gas turbine engine component, wherein the gas turbine engine component comprises the spar, the coversheet, and the repaired coversheet portion.