CLAIMS

1. A thrust management system for use with a pressurized hose, the thrust management system comprising:

a pad mount;

an adjustment mechanism for selectively rotating the pad mount from a first position to a second position;

wherein the pad mount comprises a first side and a second side movingly engaged with the adjustment mechanism.

2. The thrust management system of claim 1, wherein the first side and the second side comprise a support member disposed therebetween.

3. The thrust management system of claim 1, wherein the first side has an arcuate portion, and wherein the second side has a respective arcuate portion, and wherein the first side and the second side comprise a void space therebetween.

4. The thrust management system of claim 1, wherein at least one surface associated with the adjustment mechanism comprises a linear groove, and wherein the adjustment mechanism comprises a pad mount rail coupler having an end of the first side movingly engaged therewith, and a respective end of the second side movingly engaged therewith.

5. The thrust management system of claim 4, wherein the pressurized hose is configured with a carrier assembly engaged thereon, wherein the pad mount is coupled with the carrier assembly via the pad mount rail coupler, and wherein during operation the carrier assembly is configured to rotate around the pressurized hose.

6. The thrust management system of claim 5, wherein the end comprises a first face configured with a set serrated teeth and a second face with a smooth surface.

7. The thrust management system of claim 6, wherein the pad mount rail coupler comprises a mating surface configured to engage the set of serrated teeth, and wherein the pad mount rail coupler comprises a bias member biased with a bias force to bias the set of serrated teeth engaged with the mating surface.

8. The thrust management system of claim 7, wherein when the bias force is overcome the set of serrated teeth are disengaged with the mating surface, and the pad mount is rotatable.

9. The thrust management system of claim 8, wherein the pad mount is configured with a lock configuration and a lock/unlock indicator.

10. The thrust management system of claim 1, wherein the pad mount is configured with a lock configuration and a lock/unlock indicator, wherein the pressurized hose is configured with a carrier assembly disposed thereon, wherein the pressurized hose has a central hose axis, wherein the pad has a central pad axis point, and wherein in lateral cross-section on a lateral x,y reference the central pad axis point is offset from the central hose axis by a x in a range of 1 inches to no more than 9 inches and a y in a range of 1 inch to 9 inches.

11. A thrust management system for use with a pressurized hose, the thrust management system comprising:

a pad mount;

an adjustment mechanism for selectively rotating the pad mount from a first position to a second position;

wherein the pad mount comprises a first side and a second side movingly engaged with the adjustment mechanism, and

wherein at least one component of the adjustment mechanism comprises a grooved surface.

12. The thrust management system of claim 11, wherein the first side and the second side comprise a support member disposed therebetween, and wherein the groove surface comprises an inner surface configured with a plurality of linear grooves.

13. The thrust management system of claim 12, wherein the first side has an arcuate portion, and the second side has a respective arcuate portion, and wherein the adjustment mechanism comprises a pad mount rail coupler having an end of the first side movingly engaged therewith, and a respective end of the second side movingly engaged therewith.

14. The thrust management system of claim 13, wherein the pressurized hose is configured with a carrier assembly engaged thereon, wherein the pad mount is coupled with the carrier assembly via the pad mount rail coupler, wherein during operation the carrier assembly is configured to rotate around the pressurized hose, and wherein the end comprises a first face configured with a set serrated teeth and a second face with a smooth surface.

15. The thrust management system of claim 14, wherein the pad mount rail coupler comprises a mating surface configured to engage the set of serrated teeth, and wherein the pad mount rail coupler comprises a bias member biased with a bias force to bias the set of serrated teeth engaged with the mating surface.

16. The thrust management system of claim 15, wherein when the bias force is overcome the set of serrated teeth are disengaged with the mating surface, and the pad mount is rotatable, and wherein the pad mount is configured with a lock configuration and a lock/unlock indicator.

17. A thrust management system for use with a pressurized hose, the thrust management system comprising:

a pad mount;

a pad backing; and

a pad

an adjustment mechanism for selectively rotating the pad mount from a first position to a second position;

wherein the pad mount comprises a first side and a second side,

wherein the first side and the second side comprise a support member disposed therebetween

wherein the pad mount comprises a first side end and a second side end movingly engaged with the adjustment mechanism, and

wherein at least one of the first side end and a second side end comprises an inner end surface configured with a grooved surface.

18. The thrust management system of claim 17, wherein the grooved surface comprises an at least one linear groove.

19. The thrust management system of claim 18, wherein the pressurized hose is configured with a carrier assembly engaged thereon, wherein the pad mount is coupled with the carrier assembly via a pad mount rail coupler, wherein during operation the carrier assembly is configured to rotate around the pressurized hose, and wherein the end comprises a first face configured with a set serrated teeth and a second face with a smooth surface.

20. The thrust management system of claim 19 wherein the pad mount rail coupler comprises a mating surface configured to engage the set of serrated teeth, and wherein the pad mount rail coupler comprises a bias member biased with a bias force to bias the set of serrated teeth engaged

with the mating surface, and wherein the pad mount is configured with a lock configuration and a lock/unlock indicator.