



Shuttle Performance Enhancements

- **Current shuttle commitments**

• Super light-weight tank and mods	8,045 lb
• Orbiter weight mods (including lt-wt crew seats)	1,564
• Light-weight boosters	1,200
• HAINS IMUs	650
• SSME variable mixture ratio	600
• Payload bay wire harness	541
• First stage yaw steering	500
• RSRM nozzle extension	500
• Uncertainty	-600

Total commitment, all flights 13,000 lb*

* Can be increased by 2,000 lb on an "as needed" basis using 106% SSME throttles

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