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Terrestrial Planet Finder Mission	TPF Cor	onagraph Minimum Mission Design System Description	n Review
		Doug Lisman	
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Terrestrial Planet Finder Mission

Spacecraft Overview

- Power: 3,000W solar array
- Propulsion: 100kg Hydrazine in Blow-Down Mode
 - No ΔV required
 - Provide safe sun point and some momentum management (solar sail is prime)
- Attitude Control: 3 axis stabilized
 - Star-trackers, gyros, sun sensors, plus instrument provided Acquisition Camera
 - 6 Reaction Wheels (Ithaco E Wheels)
 - Solar Sail with 1 axis articulation for balancing solar pressure torques
- Telecommunications: 256 kbps science downlink
 - X-Band transponder
 - 50W amplifier
 - 2 30dB HGAs with 2 axis articulation
- Thermal Control: V-Groove sun shade to isolate telescope and instrument from sun

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