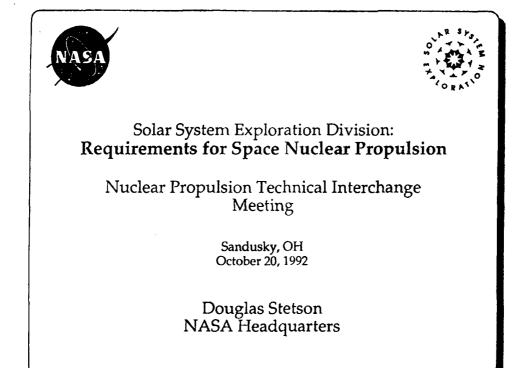
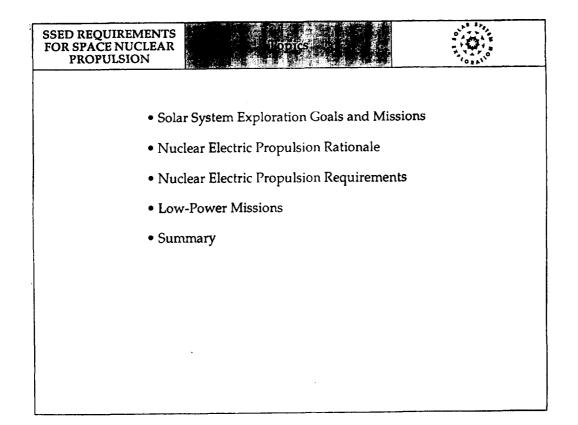
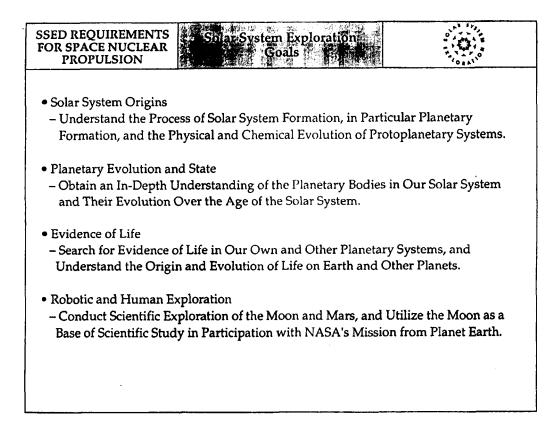
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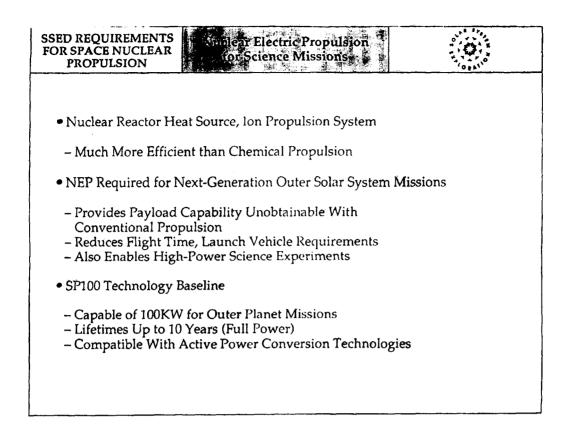
Introduction Requirements

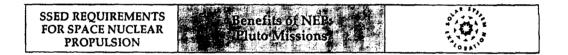




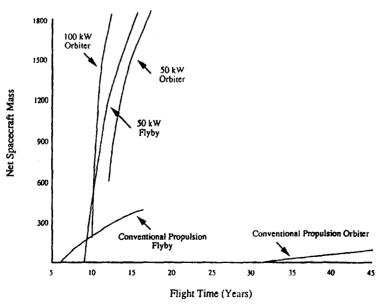
	[Outer	Planets		Other Planetary Systems
	Jupiter	ទីរត្រាក្ 🗎 🚺	nus i Nep	tune Pluto	. Is a controllar
Reconnaissanc e	Pioneer 11 Flyby Vo	neer 11 Flyby yager 1 Flyby yager 2 Flyby	7 2 Flyby Voyager	2 Flyby Flyby	Toward Other Planetary Systems
Exploration			oiter/ obe Pro		
Intensive Study	Jupiter Grand Tour				

NP-TIM-92





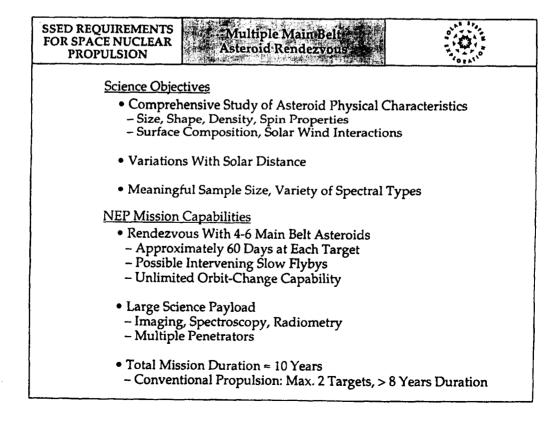




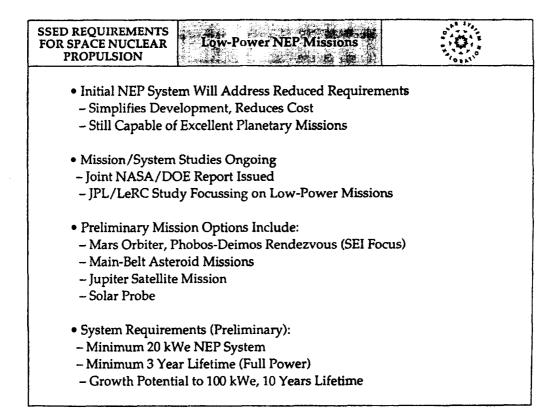
Introduction: Requirements

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SSED REQUIREMENTS FOR SPACE NUCLEAR PROPULSION	Jupiter Grand Tour	
– Geology – Gravitat	tives Characterization of Galilean Satellito Morphology, Elemental Composition ional and Magnetic Properties ions with Jupiter's Magnetosphere	
	n to Galileo Study of Jupiter here, Inner Magnetosphere, Ring Sys	tem
– Comprei	<u>Capabilities</u> Il Orbiting of All 4 Galilean Satellites hensive Imaging and Spectroscopy ounding, Altimetry, Other Active Exp	periments
• Possible A	Addition of Jupiter Polar Orbiter or Sa	atellite Landers
	ence Payload, ≈ 10 Year Mission Dura tional Propulsion: 4 Separate Launch	



Mission	Power Level (kWe)	Lifetime Full/Mission (Yrs)	Specific Mass (kg/kWe)	Technology Need Dates (year)
Far Outer Planet Orbiters/Probes	100	7-9/14-15	< 35	- 2000-01
Jupiter Grand Tour	100	8/11	< 35	- 200 0
Multiple Mainbelt Asteroid Rendezvous	90	7/10	< 35	- 2000
Comet Nucleus Sample Return	90	4/8	< 35	- 2003



SSED REQUIREMENTS FOR SPACE NUCLEAR PROPULSION	Summary,	
Mission	opulsion Enables Next-Generation Outer	r Solar System
• Requirements	.ifetime (Full-Power), < 35 kg/kWe	
	20 kWe, > 3 Yr. Full-Power Lifetime	
– Full-Power System		

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