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Follow-On Technology Requirement Study for Advanced Subsonic Transport							□ NASA STI		
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Abstract:	A study was conducted to define and assess the critical or enabling technologies required for a year 2005						Publicat	on Year	
	entry into service (EIS) engine for subsonic commercial aircraft, with NASA Advanced Subsonic Transport						2003		
	goals used as benchmarks. The year 2005 EIS advanced technology engine is an Advanced Ducted						Availabil	ity Type	
	Propulsor (ADP) engine. Performance analysis showed that the ADP design offered many advantages						Online	NTRS full-text available	
	compared to a baseline turbofan engine. An airplane/ engine simulation study using a long range quad						Document Type		
	aircraft quantified the effects of the ADP engine on the economics of typical airline operation. Results of the						Technic	cal Report	
	economic analysis show the ADP propulsion system provides a 5% reduction in direct operating cost plus						NASA Ce	nter	
	for the year 2005 FIS ADP were identified and prioritized						Glenn F	Research Center	
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