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**Commercial  
Space  
Transportation  
Safety Approval**

**Safety Approval Number: SA 10-001**

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**National Aerospace  
Training and Research  
Center**

is issued a safety approval, subject to the provisions of 49 USC Subtitle IX, ch. 701, and the orders, rules, and regulations issued under it.

The FAA has determined that the National Aerospace Training and Research Center's Space Training System: Model 400 suborbital space flight simulator is capable of replicating the G forces associated with suborbital space flight within the following envelope:

Manned flight profiles up to 12 Gz and 8 Gx, with an onset rate up to +/- 8 G/Sec and an accuracy in Gz and Gx axis of +/- 0.1 G.

This safety approval is granted subject to the terms, conditions, and limitations set forth in safety approval order A and any subsequent orders issued by the Associate Administrator for Commercial Space Transportation.

The holder of this safety approval must at all times comply with the regulations prescribed by the Associate Administrator for Commercial Space Transportation relating to this Safety Approval.



US Department  
of Transportation  
Federal Aviation  
Administration

800 Independence Ave., S.W.  
Washington, D.C. 20591

**Issued On: April 7, 2010**

**Effective On: April 7, 2010**

**Manager, Systems Engineering & Training Division**

Safety Approval Order No. SA 10-001A

ASSOCIATE ADMINISTRATOR  
FOR COMMERCIAL SPACE TRANSPORTATION  
SAFETY APPROVAL ORDER REGARDING

SPACE TRAINING SYSTEM: MODEL 400

SAFETY APPROVAL NO. SA 10-001  
ISSUED TO

NATIONAL AEROSPACE TRAINING AND RESEARCH CENTER

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1. Authority: This Order is issued to the National Aerospace Training and Research Center (NASTAR) under 49 U.S.C. Subtitle IX, chapter 701.
2. Purpose: This Order modifies Safety Approval No. SA 10-001 issued concurrently by the Federal Aviation Administration's (FAA) Office of Commercial Space Transportation (AST). This Order prescribes as conditions to the Safety Approval certain requirements applicable to the approved safety element.
3. Scope: The FAA verifies that the STS-400 can replicate manned flight profiles up to 12 Gz and 8 Gx, with an onset rate up to +/- 8 G/Sec and an accuracy in Gz and Gx axis of +/- 0.1 G, as represented in NASTAR's application.
4. Maintenance: NASTAR must follow the STS-400 maintenance procedures as represented in NASTAR's application.
5. Calibration: NASTAR must calibrate all STS-400 accelerometers and tachometers, as represented in NASTAR's application, on an annual basis.
6. Crew Qualification and Training: NASTAR may offer the STS-400 to a prospective launch operator to meet the applicable components of the crew qualification and training requirements of 14 CFR § 460.5.
7. Safety Approval Term: Safety Approval No. SA 10-001 expires in 5 years from the effective date of the Safety Approval.

OFFICE OF COMMERCIAL SPACE TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

Safety Approval Order No. SA 10-001A

By:   
Stewart W. Jackson, Manager  
Systems Engineering & Training Division

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