
**Commercial
Space
Transportation
Safety Approval**

Safety Approval Number: SA 10-001 (Rev 1)

**National Aerospace
Training and Research
Center**

is issued a safety approval, subject to the provisions of 51 USC Subtitle V, ch. 509, 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 axes 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 Office of Commercial Space Transportation.

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



US Department
of Transportation
Federal Aviation
Administration

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

Original Issued On: April 7, 2010
Rev 1 Issued On: April 3, 2015
Rev 1 Effective On: April 7, 2015

Kenneth Wong

Manager, Licensing & Evaluation Division

Revision History:

Original Safety Approval - Issued April 7, 2010

Revision 1 - Issued April 3, 2015

- 1) Redesignated Safety Approval Number: SA 10-001 to SA 10-001 (Rev 1)
- 2) Due to transfer of code, redesignated Authority to read "51 USC Subtitle V, ch. 509"
- 3) Replaced "Associate Administrator for" with "Office of" prior to the name Commercial Space Transportation.

Safety Approval Order No. SA 10-001A (Rev 1)

OFFICE OF
COMMERCIAL SPACE TRANSPORTATION
SAFETY APPROVAL ORDER REGARDING

SPACE TRAINING SYSTEM MODEL 400 (STS-400)

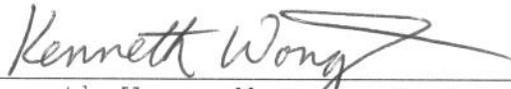
SAFETY APPROVAL NO. SA 10-001 (Rev 1)
ISSUED TO

NATIONAL AEROSPACE TRAINING AND RESEARCH CENTER

1. Authority: This Order is issued to the National Aerospace Training and Research Center (NASTAR) under 51 U.S.C. Subtitle V, chapter 509.
2. Purpose: This Order modifies Safety Approval No. SA 10-001 (Rev 1) 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 axes 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 (Rev 1) expires in 5 years from the effective date of the Safety Approval.

Safety Approval Order No. SA 10-001A (Rev 1)

OFFICE OF COMMERCIAL SPACE TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

By: 
Kenneth Wong, Manager
Licensing and Evaluation Division

Issued: April 3, 2015

Effective: April 7, 2015

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