[4910-13]
DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

Office of Commercial Space Transportation: Millennium Engineering and Integration Company Safety Approval Performance Criteria

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice.

SUMMARY: This is notification of criteria used to evaluate the Millennium Engineering and Integration Company (MEI) safety approval application. This Notice publishes the criteria that the FAA used to evaluate the safety approval application pursuant to FAA regulations.

Background: MEI applied for, and received, a safety approval for its ability to provide its Flight Analyst Workstation (FAWS) as a component of the process to build flight rules, generate the Mission Data Load (MDL), and verify the MDL prior to loading it onto a launch vehicle's autonomous flight safety unit (AFSU).

The FAA issued MEI the safety approval, subject to the provisions of Title 51 U.S.C Subtitle V, ch. 509, and the orders, rules and regulations issued under it. This Notice is published pursuant to Title 14 Code of Federal Regulations (14 CFR 414.35).

MEI may offer FAWS as a component of the process of
generating and verifying MDLs for AFSUs to a prospective launch
or reentry operator to meet the applicable requirements of 14
CFR 417.123(b), (d), and (e), and § 417.309(h).

Criteria Used To Evaluate Safety Approval Application:

The performance criteria used to evaluate the FAWS as a
component of the process of generating and verifying MDLs for
AFSUs included the following FAA regulations, NASA standard,
U.S. Air Force manuals or instructions, industry standard, and
MEI-developed standards:

14 CFR 417.309 (h) Flight Safety System Analysis - Software
and Firmware and 14 CFR 417.123 Computing Systems and
Software.

NASA-STD-8719.13C Software Safety Standard.

AFSPCMAN 91-710 (v1) Range Safety Policies and Procedures,
AFSPCMAN 91-710 (v2) Range Safety User Requirements Manual,
Volume 2 - Flight Safety Requirements, AFSPCMAN 91-712 Launch
Safety Software and Computing System Requirements, and 45 SWI
91-701 45th Space Wing Launch Safety Software Management.

CMMI-Dev (ML3) Capability Maturity Model Integration.

MEI-000071 Configuration Management, MEI-000120 Requirements
Development and Management, MEI-000124 Technical Solution,

MEI-000149 Agile Software Development Process, and MEI-000125

Verification and Validation.

FOR FURTHER INFORMATION, CONTACT: For questions about the

performance criteria, you may contact Randal Maday, Licensing

and Evaluation Division (AST-200), FAA Office of Commercial

Space Transportation (AST), 800 Independence Avenue SW, Room

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  Commercial Space Transportation.

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