

Safety and Facility Assurance Branch (SFAB)

Functional Statement

- ◆ Establishes safety, reliability and maintainability policies and technical requirements for the Center's facilities and operations. Plans, develops, and implements facility assurance programs and controls for the safety of personnel, protection of property and reliable operations of facilities. Provides a thorough review of research facilities, apparatus designs and operations to ensure compliance with established programs and regulations. Measures the success of safety, reliability and maintainability programs with a wide range of metrics. The Center's facilities consist of a wide range of continuous circuit and blowdown wind tunnels, materials testing apparatus, laboratory operations and flight simulators. The SFAB provides safety and facility assurance support to the Center by having established processes in the following six areas: Facilities Configuration Management, Operational Demonstrations, Facility Safety and Reliability Engineering, Industrial Hygiene, Occupational Safety, and Fire and Emergency Preparedness and Response.
- ◆ Manages the Center's safety configuration management program. Ensures that facility safety critical drawings and documents reflect the as-built configuration. Modifies safety and reliability analysis as the facility changes. Reviews and approves proposed facility changes that may affect facility safety or reliability.
- ◆ Conducts operational demonstrations of facilities. Assures that facility operations are being conducted in accordance with approved standard operating procedures, and that the current procedures agree with requirements of safety analysis abatements.
- ◆ Supports the design, construction and modification, and repair of high-risk research facilities and equipment. Prepares baseline safety analysis and standard operating procedures. Assures compliance with established safety programs and regulations regarding safety and reliability. This is accomplished through the use of traditional analytical techniques, such as fault tree analysis, failure modes and effects analysis, and operational safety analysis and hazard analyses. Advises and consults with division level management, research facility operators, engineering and technical personnel regarding the application of safety and reliability engineering principles in the design, construction, modification, and repair of research facilities and equipment.
- ◆ Manages the Center's Industrial Hygiene programs. Provides surveillance and guidance to assure adequate occupational health controls for potential hazards. Develops specialized training for employees. Maintains field-

monitoring equipment. Provides services for the technical evaluation of toxic environments, dusts and fumes, ventilation and exhaust systems, noise, radiological and laser surveillance. Implements corrective actions to prevent exposure of employees to undesirable work environments. Conducts Industrial Hygiene audits.

- ◆ Manages the Center's occupational safety programs. Provides surveillance and guidance for personnel engaged in work activities covered by the Occupational Safety and Health Act and other pertinent NASA safety programs at all Center facilities and operations. Ensures adherence to occupational safety requirements by performing audits and training personnel. Provides accident root analysis, accident/injury reporting and corrective action tracking. Provides safety complaint investigations and resolutions. Briefs construction contractors and oversees construction activities as they relate to safety matters involving NASA facilities, equipment and personnel. Assesses contractors safety program effectiveness. Operates the SMAO television channel for increased safety awareness.
- ◆ Manages the Center's fire protection and emergency response programs. Plans, directs and evaluates the work of fire and emergency service personnel. Develops and implements Center Emergency Preparedness and Response Procedures. Responds to all Center emergencies and acts as the focal point for directing the appropriate responses. Manages and operates the Center's Emergency Broadcast System.

NASA Responsible Official: Janet L. Edmondson

Curator: Janet L. Edmondson

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