

[| NODIS Library](#) | [Organization and Administration\(1000s\)](#) | [Search](#) |

NASA Procedural Requirements

COMPLIANCE IS MANDATORY**NPR 1800.1D**
Effective Date: May 13, 2016
Expiration Date: May 13,
2021[Printable Format \(PDF\)](#)

Request Notification of Change (NASA Only)

Subject: NASA Occupational Health Program Procedure**Responsible Office: Office of the Chief Health & Medical Officer**

[| TOC](#) | [Preface](#) | [Chapter1](#) | [Chapter2](#) | [Chapter3](#) | [Chapter4](#) | [Chapter5](#) | [Chapter6](#) | [Chapter7](#) |
[AppendixA](#) | [AppendixB](#) | [AppendixC](#) | [AppendixD](#) | [AppendixE](#) | [AppendixF](#) | [AppendixG](#) |
[AppendixH](#) | [ALL](#) |

Appendix F. NASA Laser Safety Review Board

Laser Safety Review Board (LSRB) Charter

Introduction

Outdoor laser use poses hazards to personnel on the ground, in the air, and in space, and it poses hazards to space-based systems. This charter establishes the NASA Laser Safety Review Board (LSRB). This board will assess the efficacy of safety analyses and safety plans/controls conducted at the Center level; coordinate with Center Laser Safety Officers (LSOs) and regulatory officials; and advise NASA decision makers with regard to outdoor (including space-based) laser use. The board's goal is to protect NASA personnel and the public and space-based systems while preserving NASA's mission goals. Through the LSRB, the Office of the Chief Health and Medical Officer and the Office of Safety and Mission Assurance will evaluate safety and health assessment processes, reviews, and approvals with regard to outdoor laser use as defined in paragraph 1.0 below.

Charter

1.0 Executive Summary

The NASA LSRB is established jointly by the Office of the Chief Health and Medical Officer (OCHMO) and the Office of Safety and Mission Assurance (OSMA), with support from the Office of the Chief Engineer (OCE), Mission Directorates, and Centers.

The LSRB formally reviews and makes recommendations to the Agency regarding use of any laser under NASA purview, which has the potential to emit light over the horizon, without a backstop, and which could interfere with air traffic or orbiting assets and/or pose a hazard to NASA personnel or the public; consistent with defined approval criteria. The NASA LSRB also provides a forum for discussing policy, procedures, and risks associated with outdoor laser use.

2.0 Authority

- a. NPR 1800.1, NASA Occupational Health Program Procedures
- b. NPR 8715.3, General Safety Program Requirements.

3.0 Purpose

The LSRB reviews Center assessments of lasers under NASA purview, which have the potential to emit light over the horizon, without a backstop, and which could interfere with the air traffic or orbiting assets and/or pose a hazard to NASA personnel or the public, to ensure compliance with applicable regulatory requirements and technical standards and adherence to exposure limits.

The objectives of the LSRB are to:

- Ensure adequate Center-level review of proposed outdoor laser use has been completed.
- Ensure the appropriate approvals are obtained, consistent with the classification of laser and application.
- Ensure timely Agency oversight is provided to minimize programmatic delays.
- Provide advice to NASA senior management regarding NASA policy, procedures, regulatory requirements, standards, and the associated risk of outdoor lasers.

The LSRB establishes and maintains bylaws in accordance with these objectives.

The LSRB specifically does not:

- Maintain, manage, or control technical or programmatic resources, nor direct technical or programmatic work.
- Serve as the Technical Authority as defined in NPD 1000.1, NASA Governance and Strategic Management Handbook, and NPR 7120.5, NASA Space Flight Program and Project Management Requirements.

4.0 Scope

The NASA LSRB is responsible for 1) reviewing and making recommendations regarding policy for use of any laser under NASA purview, which has the potential to emit light over the horizon, without a backstop, and which could interfere with air traffic or orbiting assets and/or pose a hazard to NASA personnel or the public; 2) reviewing the Laser Safety Hazard Analysis Reports and Laser Safety Plans and requests for outdoor laser use, including space-based, and airborne laser operations and making recommendations to NASA senior management; and 3) reviewing Center implementation of Agency policy for outdoor laser use, under NASA purview, which has the potential to emit light over the horizon, without a backstop, and which could interfere with air traffic or orbiting assets and/or pose a hazard to NASA personnel or the public.

5.0 Participants

The Chair has the responsibility for conducting LSRB meetings. The Chair works closely with the LSOs and Laser Safety Committees at the Centers.

- Chair: The LSRB Chair with knowledge of laser safety issues and laser safety requirements shall be designated by NASA's Chief Health and Medical Officer on an annual basis.
- The LSRB will consist of:
 - o One representative from the OCHMO
 - o One representative from the OSMA
 - o One Certified LSO
- The following will serve as adhoc members;
 - o One representative from the OCE
 - o One representative from the Aeronautics Research Mission Directorate
 - o One representative from the Human Exploration and Operations Mission Directorate
 - o One representative from the Science Mission Directorate
 - o One representative from the Space Technology Mission Directorate
- Additional representatives may be added as directed by the Chair.
- The LSRB may form ad hoc working groups led by board member representative or delegates.
- Center LSOs are encouraged to communicate with the LSRB LSO to discuss exposure calculations methodology, calculation results, and controls prior to the LSRB meeting.

6.0 Meeting Schedule

Meetings will be held quarterly. Meetings will be held face-to-face and/or via teleconference. Additional meetings to address specific requests of the board for mission flight approvals or other time dependent operations will be convened as needed. Board acceptance of motions to put forth the recommendations will require a quorum of the three permanent members.

7.0 Charter Renewal

This charter will remain in effect for three years commencing on September 30, 2014, and ending on August 31, 2017. At this time, the need for continuation of the activity will be revisited jointly by OCHMO and OSMA and a

decision made to either renew or discontinue the LSRB.

Concurrence:

✘

NPR1800.1DAFG1

| [TOC](#) | [Preface](#) | [Chapter1](#) | [Chapter2](#) | [Chapter3](#) | [Chapter4](#) | [Chapter5](#) | [Chapter6](#) |
[Chapter7](#) | [AppendixA](#) | [AppendixB](#) | [AppendixC](#) | [AppendixD](#) | [AppendixE](#) |
[AppendixF](#) | [AppendixG](#) | [AppendixH](#) | [ALL](#) |

| [NODIS Library](#) | [Organization and Administration\(1000s\)](#) | [Search](#) |

DISTRIBUTION:
NODIS

This Document Is Uncontrolled When Printed.
Check the NASA Online Directives Information System (NODIS) Library
to Verify that this is the correct version before use: <http://nodis3.gsfc.nasa.gov>
