#### DRAFT STATUTORY INSTRUMENTS

# 2021 No.

# **SPACE INDUSTRY**

# The Space Industry Regulations 2021

 Made
 2021

 Coming into force
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# THE SPACE INDUSTRY REGULATIONS 2021

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- 3. For launch operator licence applicants, identification of the spaceport or...
- 4. Identification of— (a) any range control services needed;
- 5. (1) For launch operator licence applicants—(a) a schedule of...
- 6. Evidence that the applicant will, if granted the licence, be...
- 7. Details of the applicant's safety management system for the proposed...
- 8. Particulars of any licence, permit or approval that any country...
- 9. Information about what applications, if any, the applicant has previously...
- 10. Information about the applicant's experience, if any, in the design,...
- 11. Technical particulars
- 12. (1) For each safety-critical system used in the proposed spaceflight...
- 13. A description of the engineering practices used in the design,...
- 14. A description of the engineering practices and design and operational...
- 15. Descriptions of any hazardous material that is part of the...
- 16. For any payload that the launch vehicle will carry, technical...
- 17. Technical particulars of and performance data for any carrier aircraft...

**Draft Legislation:** This is a draft item of legislation. This draft has since been made as a UK Statutory Instrument: The Space Industry Regulations 2021 No. 792

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- 3. The LD must have the ability to organise and lead...
- 4. The LD must have a comprehensive knowledge of pre-flight, flight...
- 5. The LD must have a clear understanding of—
- 6. The LD must have participated in practical training, which must...
- 7. A trainee LD may not be given any role in...
- 8. Flight termination personnel
- 9. The MFTP must be familiar with—(a) the spaceport or...
- 10. The MFTP must have completed—(a) training designed for each...
- 11. All MFTPs who monitor launch vehicle performance and perform flight...
- 12. The MFTP must also be capable of resolving, where possible,...
- 13. Flight crew and remote pilots
- 14. (1) An MFC of a sub-orbital aircraft must, subject to...
- 15. (1) Pilots and remote pilots must possess the aeronautical knowledge,...
- 16. (1) An MFC expecting to act as a pilot in...
- 17. An MFC must be able to demonstrate the MFC's ability...
- 18. (1) An MFC of a launch vehicle other than a...
- 19. An MFC and a remote pilot must hold a flight...
- 20. An MFC must have previous experience as a member of...
- 21. Sub-orbital aircraft engineers
- 22. Range operations manager
- 23. The ROM must ensure that the ROM's team has completed...
- 24. The ROM must have experience in a similar or related...
- 25. Range safety manager
- 26. The RSM must be able to demonstrate familiarity with the...
- 27. Where the RSM is to be responsible for operating, or...
- 28. The RSM must be able to demonstrate detailed knowledge of—...
- 29. The RSM must also be capable of resolving malfunctions in...

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- 32. The responsibilities of the training manager.
- 33. The responsibilities of instructors carrying out any part of the...
- 34. Information for instructors on the training programme, including—
- 35. The locations where any training is to be carried out....
- 36. The procedures established by the licensee to satisfy its obligations...
- 37. The entry requirements for applicants for each role.
- 38. The procedures to be adopted for determining that an individual...
- 39. A full description of the training programme, including—
- 40. A full description of the arrangements made for undertaking mission...
- 41. A statement describing any arrangements which have been made with...
- 42. A statement of how the licensee, other than a spaceport...
- 43. A statement of the policy in relation to individuals who...
- 44. Where the licensee will be undertaking spaceflight activities with individuals...

- 45. The procedures of the licensee, other than a spaceport licensee,...
- 46. The measures being taken to assess the performance of training...
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- 49. Every member of the crew and remote pilot must receive...
- 50. Every member of the crew and spaceflight participant must receive...
- 51. Every member of the crew and remote pilot must receive...
- 52. Every spaceflight participant must receive training in—

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- 2. A safety management system must— (a) be proportionate to the...
- 3. A safety management system must include a written spaceflight safety...
- 4. The following matters must be addressed by the safety management...
- 5. The procedures referred to in paragraph 4(g)—

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- 2. The manual must— (a) where necessary, include or refer to...
- 3. Fatigue and other human factors
- 4. If the launch vehicle has a crew, information about the...
- 5. If the launch vehicle has a remote pilot, information about...
- 6. Details of the safety management system which the spaceflight operator...
- 7. Preparations for launch, return and other operations
- 8. Instructions and procedures for complying with the operator security programme....
- 9. Instructions about the functions and procedures of a mission management...
- 10. Instructions and procedures for ground operating staff about the types...
- 11. Instructions and procedures for monitoring the progress of the preparations...
- 12. Procedures for notifying the regulator about planned operator's spaceflight
- 13. Instructions as to the order of the activities and safety...
- 14. Instructions and procedures about recording in writing the environmental and...
- 15. Launch and other operations
- 16. Instructions and procedures about the steps to be taken if...
- 17. Instructions and procedures about the steps to be followed during...
- 18. Instructions about the process to be followed before a flight...
- 19. If there is a flight safety system—
- 20. If part of the mission, instructions and procedures about returning...
- 21. If the launch vehicle is reusable, instructions and procedures about...
- 22. Instructions and procedures about the steps to be followed on...
- 23. Launch vehicles with crew or a remote pilot
- 24. Emergency response
- 25. Procedures to ensure that the emergency response plan is tested,...
- 26. Ground support equipment
- 27. Making, collecting and retaining information

**Draft Legislation:** This is a draft item of legislation. This draft has since been made as a UK Statutory Instrument: The Space Industry Regulations 2021 No. 792

# SCHEDULE 7 — Amendments to the Air Navigation (Cosmic Radiation: Protection of Air Crew and Space Crew and Consequential Amendments) Order 2019

- 1. The Air Navigation (Cosmic Radiation: Protection of Air Crew and...
- 2. In article 2 (interpretation)—(a) in the definition of "crew",...
- 3. In article 3 (application of this Order)—
- 4. In article 4 (meaning of "operator")— (a) in paragraph (1)...
- 5. In article 5 (authorisation and prohibition on exposure)—
- 6. In article 6 (risk assessments)— (a) in paragraph (1) omit...
- 7. In article 10 (provision of information and training to crew)—...
- 8. In article 11 (overexposure), in paragraph (1) omit the words...
- 9. In article 12 (continued working of overexposed crew)—
- 10. In article 15 (health records), in paragraph (3)(b)(ii) omit the...
- 11. In article 17 (records of exposure to cosmic radiation of...
- 12. In article 18 (access to records of individual exposure to...
- 13. In article 19 (instruction of experts), in paragraph (5) omit...
- 14. In article 21 (right of access to aerodromes and other...

# SCHEDULE 8 — Information and instructions which must be included in a spaceport manual

- 1. The name and status of the accountable manager for the...
- 2. The names and status of other senior operating staff at...
- 3. Details of the safety management system.
- 4. Procedures for promulgating information concerning the spaceport's state.
- 5. Procedures for control of access, vehicles and work in relation...
- 6. Procedures for the removal of disabled carrier aircraft, launch vehicles...
- 7. Process to ensure the emergency response plan is tested, reviewed...
- 8. Process to ensure that the part of the site plan...
- 9. Procedures to ensure that an appropriate safety clear zone, where...
- 10. Procedures for using a designated static engine test area.
- 11. Process and procedures to ensure the safe integration of licensed...
- 12. In the case of a spaceport which has any hazardous...
- 13. Procedures for complying with fit for purpose requirements in regulation...
- 14. Operational procedures for the routine and special inspection of the...
- 15. Process for using, maintaining, testing, repairing and servicing of any...
- 16. If spaceflight activities are permitted during periods of low visibility,...
- 17. Details of, or reference to, the bird control management plan,...
- 18. The scale of rescue, first aid and fire service facilities,...
- 19. Procedures for complying with the space site security programme required...

**Explanatory Note**