

**Table of contents**

---

- European Foreword.....4**
- Introduction.....5**
- 1 Scope.....6**
- 2 Normative references .....7**
- 3 Terms, definitions and abbreviated terms.....8**
  - 3.1 Terms from other standards.....8
  - 3.2 Terms specific to the present standard .....8
  - 3.3 Abbreviated terms..... 11
  - 3.4 Nomenclature ..... 12
- 4 Principles ..... 13**
  - 4.1 Planetary protection roles, responsibilities, and accountabilities ..... 13
    - 4.1.1 COSPAR..... 13
    - 4.1.2 Customer level..... 13
    - 4.1.3 Supplier level ..... 14
  - 4.2 Planetary protection category definitions ..... 14
    - 4.2.1 Overview..... 14
    - 4.2.2 Category I ..... 14
    - 4.2.3 Category II ..... 15
    - 4.2.4 Category III ..... 15
    - 4.2.5 Category IV..... 15
    - 4.2.6 Category V ..... 16
  - 4.3 Mars special regions..... 17
    - 4.3.1 Introduction ..... 17
    - 4.3.2 Parameter and features definition for Mars special region definitions ..... 17
- 5 Requirements..... 19**
  - 5.1 Management requirements for all missions..... 19
  - 5.2 Generic technical requirements ..... 19
    - 5.2.1 Flight hardware assembly ..... 19
    - 5.2.2 Probability of impact..... 20

5.2.3	Probability of contamination .....	20
5.3	Technical requirements for specific missions .....	21
5.3.1	Moon missions .....	21
5.3.2	Mars missions .....	21
5.3.3	Europa and Enceladus missions .....	25
5.3.4	Missions to small Solar system bodies .....	26
5.4	Planetary protection procedures .....	27
5.4.1	Bioburden controlled environments .....	27
5.4.2	Bioburden assessment.....	27
5.4.3	Biodiversity assessment.....	29
5.4.4	Bioburden reduction .....	29
5.5	Documentation .....	29
5.6	Reviews .....	30
5.7	Nonconformances and waivers.....	31
<b>Annex A (normative) Planetary protection requirements - DRD .....</b>		<b>32</b>
<b>Annex B (normative) Planetary protection plan - DRD.....</b>		<b>34</b>
<b>Annex C (normative) Planetary protection implementation plan - DRD .....</b>		<b>36</b>
<b>Annex D (normative) Pre-launch planetary protection report - DRD .....</b>		<b>39</b>
<b>Annex E (normative) Post-launch planetary protection report - DRD.....</b>		<b>41</b>
<b>Annex F (normative) Extended mission planetary protection report - DRD .....</b>		<b>42</b>
<b>Annex G (normative) End-of-mission planetary protection report - DRD.....</b>		<b>43</b>
<b>Annex H (normative) Organic materials inventory - DRD .....</b>		<b>44</b>
<b>Annex I (informative) Guidelines for human Mars missions .....</b>		<b>45</b>
<b>Bibliography.....</b>		<b>46</b>
<b>Tables</b>		
Table 5-1: Bioburden estimation.....		28
Table 5-2: Planetary protection documentation .....		30