

# LEAPS

## Leisure Equipment & Asset Protection Scheme

### SCHEME OPERATING PROCEDURES 1.1 for CONTROLLERS (HSG 175)

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## **FOREWORD**

This document is one of a series of Scheme Operating Procedures (SOPs) that sets out the details of the Leisure Equipment Asset Protection Scheme (LEAPS) including how the Scheme is governed, managed and run. This SOP details the LEAPS regulations with regards to the Controllers of leisure Assets that are listed on the Directory of Assets (DA) that is controlled by LEAPS.

This SOP is one of a series relating to the operation and governance of LEAPS. Controllers are responsible for ensuring they are aware of and have read and understood all others that may apply to their operation.

This SOP refers to Controllers of Assets that will operate in accordance with the System for Safety of Attractions (SSOA) outlined in the HSE guidance document HSG 175 Fairgrounds and Amusement Parks – Guidance on Safe Practice in all the areas and industries in which it operates. Other SOPs will apply to other Asset types.

## GLOSSARY

Appointed Inspection Body (AIB)	An IB that has been engaged by a Controller to certify their Assets that are listed on the Directory of Assets.
Asset	An item of equipment that requires certification and recording on the DA.
Assurance	A series of activities that together assure compliance with the Scheme.
Certification	Set of specified scheme requirements to be complied with to establish or maintain registration on the LEAPS digital system.
Controller	The person or organisation having overall control of an Asset (including maintenance and safe use). This may be either an individual or corporate body owning an Asset that is listed on the DA.
Directory of Assets (DA)	The directory lists Assets that have been declared to be safe to operate by an IB and in which each Asset is identified by a unique identifier that is married to the Asset for its operational life whilst listed on the DA.
Directory of IBs (DIB)	The directory listing IBs that have been certified by LEAPS as being competent to carry out Inspection work within their defined scope.
Directory of Operators (DO)	The directory listing Controllers/operators which comply with the relevant SOPs.
Due Process	Fair treatment and consideration through the application of LEAPS procedures to ensure a respect to the legal rights owed to the Controller, Inspector or IB.
Formal Accreditation	Accreditation by the United Kingdom Accreditation Service (UKAS) or another National Accreditation Body (which is a signatory to the IAF- MLA) to the requirements of BS EN ISO/IEC 17020 or 17024.
Inspection	An inspection undertaken by an IB in respect of an Asset and in accordance with the publications as referred to in Para 7.
Inspection Body (IB)	An inspection body that is competent to certify leisure Assets and is recorded on the DIB.
Inspector	A person who is or is employed by an IB or formally contracted to work under its QMS.
LEAPS	LEAPS is the private company (company registration number 13421227) called Leapscheme Ltd whose registered office is at Ivanhoe Business Park, Ashby de la Zouch, Leicestershire, LE65 2AB.
LEAPS Digital System	The DA, DIB and the DO.

Potential Inspection Body (PIB)	An organisation applying to LEAPS for official recognition as being competent to certify Assets with the Scheme.
Quality Management System (QMS)	A formalised system that documents processes, procedures and responsibilities for achieving quality policies and objectives.
Scheme Operating Procedures (SOPs)	A series of documents comprising of the Scheme rules and procedures. These will include documents for IBs, controllers and Inspectors who are competent to control or certify leisure equipment as being safe for use.
System for Safety of Attractions (SSOA)	As described in Table 1 of HSG 175 Fairgrounds and amusement parks: Guidance on safe practice.
The Scheme	The Leisure Equipment Asset Protection Scheme (LEAPS) for inspection and certification of Assets. Including but not limited to the SOPs and such other matters that are notified by LEAPS to the IBs and Controllers from time to time.

## INTRODUCTION

- 1 The Scheme is operated by LEAP Scheme Ltd.
- 2 The Scheme is for the recording of Inspection and certification of Assets. It is designed to be used by owners, managers, Controllers, operators and Inspectors of Assets, not only in the UK, but throughout the world.
- 3 The Scheme has been designed and developed to assist Controllers in complying with their legal duties to ensure that the use and/or operation of Assets complies with all relevant legislation when in use by Controllers or the public.
- 4 The legal duty to ensure the safety of Assets belongs to the Controller. For instance, The Management of Health and Safety at Work Regulations 1999 and HSG 175 Fairgrounds and amusement parks – Guidance on Safe Practice, puts the responsibility for ensuring the competence of the IB on the Controller.
- 5 The DIB lists those IBs which have been accepted onto the Scheme in respect of categories of Assets and undergo Assurance activities regularly thereafter to ensure their competence to work on such Assets. IBs who are listed in the DIB, provide Inspection services to Controllers. The responsibilities of Controllers are set out in this SOP. LEAPS may carry out Assurance activities to ensure the relevant standards, guidance and legislation are being followed/complied with by IBs and that their management systems comply with BS EN ISO/IEC 17020.
- 6 The Scheme's governance documentation includes the following:
  - Directories of IBs, Controllers/operators and Assets.
  - An Agreement for Controllers and IBs.
  - Details of the different types of Inspection which comprise the SSOA as defined in HSG 175 to which LEAPS adheres.
  - Details of documentation which should be held by Controller/operators.
  - Assurance activity to confirm the competence and performance of IBs.

## REFERENCES

- 7 There are other SOPs that may be used if relevant dependent upon the Asset type. IBs should rely on the most appropriate and relevant SOP, standard or guidance.
- 8 The following standards and documents contain guidance, policies and rules which are incorporated by reference into this SOP and which shall be followed by Controllers where relevant:
  - HSG 175 Fairgrounds and amusement parks – Guidance on safe practice.
  - BS EN ISO/IEC 17020 – Conformity assessment. Requirements for the operation of various types of bodies performing Inspection.

- 17024 - Conformity assessment - General requirements for bodies operating certification of persons.
- ISO 17842 – Safety of amusement rides and leisure equipment.
- BS EN 13814 – Safety of fairground machinery and structures.
- BS EN 14960 – Inflatable play equipment – Safety requirements and test methods.
- UKAS RG0 – Guidelines on the competence of personnel undertaking engineering Inspections.
- Regulations that govern those listed in the DIB.
- Technical and safety bulletins issued by the industry, regulator, manufacturers or other competent body.
- ISO 9712 – Non-Destructive Testing.

(Together referred to as "the Publications")

- 9 Where a reference is made to a publication the current issued version is being referred to.

## **RESPONSIBILITIES**

- 10 LEAPS is responsible as far as reasonably practicable for the following:

- Management, implementation and regulation of the SOPs.
- Ensuring that IBs and Assets are recorded within the LEAPS digital system.
- Where necessary appointing suitably competent consultants to carry out Assurance of those listed within the DIB.
- The provision and maintenance of the LEAPS Digital System.

- 11 Controllers are responsible for the following:

- Ensuring that where applicable the guidance in HSG 175 Fairgrounds and Amusement Parks – Guidance on Safe Practice is followed.
- Ensuring any Asset, they bring into use was/is designed and manufactured so it complies with all the relevant legislation, standards and HSG 175 Fairgrounds and Amusement Parks – Guidance on Safe Practice.
- Ensuring that they hold and maintain all relevant information and an Operations Manual for each Asset recorded on the DA in accordance with Appendix 3 of HSG 175 Fairgrounds and Amusement Parks – Guidance on Safe Practice.



- Ensuring that the Asset(s) recorded on the DA are safe at all times when in used by all.
- 12     Controllers and all relevant personnel employed by them that have responsibilities for the Asset must be able to demonstrate that they are fully conversant with the contents and requirements of the Scheme and all other factors that might affect the Inspection and Certification of any Asset(s) they have recorded on the DA.
- 13     Controllers must ensure they have suitably competent, qualified and experienced personnel to ensure their Asset(s) are maintained and operate to ensure that they are safe at all times when in use by all.

## **SCHEME OPERATING PROCEDURES FOR AMUSEMENT DEVICES AS DESCRIBED IN HSG175**

- 14     The terms and conditions of registration of a Controller under the Scheme are defined within the SOPs and must be accepted by the Controller prior to its inclusion on the DO.
- 15     The SOPs provide the LEAPS registered Controllers, their terms for initial and continued registration of their place within the DO and clarification of their on-going requirements, conditions and communications obligations.
- 16     The SOPs provides all the necessary information for stakeholders on any interpretation that will be applied in relevant circumstances by LEAPS.
- 17     Any interpretation of the SOPs will be at the sole discretion of LEAPS.
- 18     The SOPs may be amended by LEAPS at any time, all those on any of the LEAPS directories will be consulted and informed when this happens.

## **CONTROLLERS**

- 19     To be registered on the DO, Controllers must own and operate a fixed site leisure Asset, mobile leisure Asset or a Mobile Adventure Training Unit.
- 20     Controllers registered on the DO are subject to Asset Inspection and the completion of their recommended actions for the different types of leisure Assets as detailed in the relevant publications pertinent to the type of Asset held by them. They are responsible for ensuring their Asset is inspected appropriately and at least annually by an independent, competent IB recorded on the DIB.
- 21     Controllers who operate a mobile Asset are to ensure that their Asset is inspected by an IB recorded on the DIB after installation, before being put into service for the first time and after assembly at a new site or in a new location to ensure that it has been installed correctly and is safe to operate.
- 22     All Assets will be inspected in accordance with the legislation and standard which their chosen IB has decided is appropriate to the Asset. Irrespective of the industry or Asset, wherever possible Controllers are required to follow the Inspection regime outlined in the HSE System for Safety of Attractions (SSoA) as described in their guidance document, HSG 175 Fairgrounds and Amusement Parks – Guidance on Safe Practice.

LEAPS will work with industries to define how to vary this system for Assets that cannot fit the necessary criteria.

## INSPECTIONS

- 23 Controllers shall ensure that their chosen IB inspects their Assets in accordance with Table 2 of HSG 175 . If the relevant Asset is not listed in Table 2 of HSG 175 then it is at the discretion of the IB which publication or standard they adhere to, but it must be the most appropriate to the Asset.
- 24 Pre-use Inspections (as defined in HSG 175) shall be carried out before any Asset is used for the first time in the UK or following any safety critical modification(s) thereafter. This set of Inspections can only be completed by IBs that have attained and maintain appropriate registration on the DIB. The competence to carry this out is over and above the attainment of in-service annual Inspection competences.
- 25 In-service Inspection is an assessment of the fitness of any Asset for continued use during its operational life. It is a check on the safety critical components of any leisure Asset to ensure that they have not deteriorated to an extent liable to cause danger.
- 26 Unless agreed by LEAPS, in-service Inspections carried out in accordance with the Scheme are valid for a maximum of 12 months, from the date on which the IB declares that the Inspection has been satisfactorily completed and those parts or elements of an Asset inspected by the IB are safe for use.

## CERTIFICATION

- 27 Certification for all Inspections of Assets is maintained on the LEAPS Digital System on a rolling basis for so long as the Inspection requirements for the Asset have been fulfilled and remain 'in date.' Ownership of all Certification shall at all times remain with LEAPS which shall own all intellectual property rights in respect of it.
- 28 Certification for all Inspections of Assets is virtual and on a rolling basis so long as the Inspection requirements have been fulfilled and continue to be valid, for example, if you re-site a fixed asset the previous Inspections may not be valid. This can be verified using the LEAPS Digital System.
- 29 Controllers of leisure Assets are given access to relevant areas of the LEAPS Digital System so that they can view their Inspection status, information, and report reference numbers that have been placed on the LEAPS database as agreed with their IB.
- 30 Controllers shall ensure that both they and any Inspectors or staff employed by them respect and maintain the confidentiality of all information supplied to them and shall not allow any other party to gain access to the LEAPS Digital System or any information provided by LEAPS. If the Controller or IB suspects or has any reason to suspect that any third party has gained unauthorised access to the LEAPS Digital System, then the Controller or IB shall immediately notify LEAPS and shall be responsible for all loss or damage suffered by LEAPS as a result of such access or use.

## REQUIREMENTS FOR THE CONTROLLER

### APPLICATION AND REGISTRATION

- 31 The initial step to becoming a LEAPS registered Controller is to complete an application form and submit this to LEAPS. Application forms and guidance for completion are available on the LEAPS website, <https://www.leapscheme.com/>
- 32 Controller applications to join LEAPS are subject to a rigorous and fair initial assessment prior to the Controller being placed on the DO. Ongoing compliance with the Scheme will maintain their registration. A reassessment will be required in the event of material changes to information contained in an application. Any supporting documents accompanying the application shall be submitted for initial assessment and subsequently if material changes to information contained in their application have taken place.
- 33 Controllers that change legal ownership or If an asset is moved or relocated within the same site, consideration should be given to whether a new LEAPS inspection is necessary. Seek advice from LEAPS regarding the specific circumstances for your asset. This may mean applying for a change to their registration. In the case of substantive changes, this may mean a new application.
- 34 On successful completion of the initial assessment the Controller is placed onto the DO and is subject to the Scheme's rules.
- 35 To accommodate differing legal entities, it is the Controller's individual sites that are recorded on the DO.
- 36 By registering with LEAPS, a Controller agrees to comply with the Scheme and publications. Notwithstanding any other rights it has, LEAPS reserves the right to remove the Controller from the DO if the Controller fails to comply with this paragraph.
- 37 A Controller's business address should be the main legal address from which the Controller manages their business.

### ON GOING REGISTRATION

- 38 A Controller retains its placing on the DO on an annual basis from the date of initially being registered on the DO. Controllers are responsible for informing LEAPS in writing if they wish to discontinue their place on the DO for the following year. Continued participation in the Scheme conveys agreement to conform with the Scheme.
- 39 When a Controller voluntarily discontinues their association with LEAPS they should email [enquiries@leapscheme.com](mailto:enquiries@leapscheme.com) with a minimum of 30 days' notice, they will then be removed from the DO.

### COMMUNICATION

- 40 Electronic communication will be the preferred method for LEAPS to communicate with Controllers and vice versa.

- 41 The Controller shall notify LEAPS of a single responsible person or email address for contact regarding all matters relating to the Scheme. It will be assumed that the email address provided by the Controller for this purpose is that of the responsible person for the Controller. The Controller shall advise LEAPS of any contact changes within 5 working days.
- 42 The Controller is responsible for monitoring all communications and responding promptly to content as required.
- 43 The Controller is responsible for disseminating all communications to all their relevant personnel, of all matters relating to the Scheme.

## **ASSURANCE**

- 44 The Scheme uses Assurance activities to ensure that work carried out on behalf of Controllers is performed competently, diligently and in accordance with relevant standards and industry best practice. Part of this Assurance will be carried out on LEAPS recorded Controller's site as a "witnessed Inspection". This "witness Inspection" will be arranged with the Controller by the IB.
- 45 Where evidence is presented to LEAPS that a Controller's processes and procedures have failed to meet the standards set out by the Scheme, then LEAPS retains the right to seek assurances that remedial measures are in place to re-establish the standards that are required by the Scheme. Some examples of this could be:
- Regulatory enforcement action.
  - High accident or incident statistics.
  - Credible information received from within or without the Scheme.
  - Activities that may bring LEAPS into disrepute.
- 46 Prior to acceptance of registration on the DO, LEAPS will require confirmation from the Controller that the Scheme will be complied with.
- 47 Controllers shall provide reasonable assistance to LEAPS where it is carrying out Assurance activity.

## **LEAP SCHEME TERMS, REGISTRATION AND MAINTENANCE ON THE DO**

### **GENERAL**

#### **RESPONSIBILITIES**

#### **48 Temporary Operation of Non-LEAPS Registered Assets:**

(An application form F004 from LEAPS is required)

Sites listed on the LEAPS DO may permit the operation of a temporary asset that may not have undergone the required LEAPS Inspection process. These devices may be operated for a temporary period not exceeding 30 days, excluding the time required for the installation and dismantling of the device. During this time, the site and the site's Controller must be wholly responsible for the device. The device must be operated and maintained according to the manufacturer's guidelines, relevant standards, HSG175 Fairgrounds and amusement parks: Guidance on safe practice and industry best practice, with all necessary safety measures in place, including regular safety checks by competent personnel, adequate training and instructions to operators, and implementation of emergency procedures. The correct documentation for the device must be present and available for Inspection, and the device must have appropriate insurance in place for the duration of its time at the site. If the operation is to extend beyond the 30-day period, an IB recorded on the LEAPS DIB must be contracted to perform an in-service annual Inspection. The results of this Inspection must be adhered to, and a LEAPS Declaration of Compliance must be achieved before the device continues operation beyond this period. The asset will be recorded on the LEAPS DA which will detail the device as a temporary asset for the applicable site. If the device is to become a permanent site asset an application will need to be made to LEAPS.

#### **49 If an Asset is removed from the Controller's site, then LEAPS shall be informed within 5 working days and the Certification will be expired for that Asset.**

#### **FEES AND CHARGES**

#### **50 Payment of fees will be due annually in advance on the anniversary of the Controller being registered on the DO. Within 30 days of receiving a proper and valid VAT invoice from LEAPS, the Controller shall ensure that LEAPS receives full payment for all Scheme fees and charges relating to the Controller in line with LEAPS payment terms. Any Controller that does not pay the fee within the agreed timescales may have their access to the LEAPS digital system restricted and ultimately removed from the DO.**

#### **DATA PROTECTION**

#### **51 Where required to do so by law, LEAPS may share information with others as set out in the SOPs. If this happens then the Controller shall be informed by LEAPS.**

#### **52 LEAPS is committed to the principles and processes required to ensure full compliance with GDPR and any relevant UK data protection legislation (collectively the "Legislation"). As such it has trained its employees and directors on the requirements of the Legislation. Any breach of the Legislation by employees, workers, sub-contractors, Controllers or IBs will be dealt with immediately and may lead to immediate termination of registration.**

53 Controllers shall ensure that all and any data is kept in a secure location at all times and that any papers or hand-held devices are secure and have the relevant level of security in place. This includes any documentation containing personal sensitive data held at any home or residential address. In the event that any party has reasonable grounds to believe that there has been, or is likely to be, a breach of the Legislation then they are to report it to LEAPS. LEAPS reserves the right to undertake spot checks in relation to data protection issues of any Controllers, IBs, workers or third parties performing services or duties under the Scheme.

#### **COMPLAINTS AGAINST AN IB OR CONTROLLER**

54 Formal complaints against IBs or Controllers shall be in writing and marked for the attention of LEAPS and Jon Ruddock.

55 LEAPS will investigate complaints and allegations thoroughly and objectively. Where sufficient evidence is found to indicate unsafe work or actions that breach the Scheme or may bring LEAPS or the industry into disrepute, appropriate and proportionate sanctions may be applied after due process.

56 In the event of a complaint being made against an IB or Controller, the responder shall:

- Co-operate fully with any investigation carried out by LEAPS including any Assurance activity.
- Provide all documentation requested without delay.
- Comply with the SOPs.

57 Issues beyond the Scheme's remit may be referred to the appropriate enforcement authority with information about the allegation.

58 LEAPS reserves the right to determine matters which constitute disrepute.

59 LEAPS will operate an appeals process for those IBs or Controllers that have a complaint upheld against them.

60 If there is a complaint made against the Scheme, then it is to be in writing addressed to LEAPS.

61 All complaints should be sent to [jon.ruddock@leapscheme.com](mailto:jon.ruddock@leapscheme.com)

#### **SANCTIONS**

62 LEAPS reserves the right to apply sanctions on any IB, Controller or inspector after due process.

63 Failure to demonstrate that the IB or Controller is working in accordance with the provisions of the SOPs, or to the appropriate standards may result in the immediate suspension or removal of the IB, Controller or Inspector (as appropriate) from the relevant directory.

- 64 The IB or Controller concerned shall be given written notification of the suspension or removal with reasons. The IB or Controller concerned may apply to LEAPS to lift any such interim measures by a notice in writing to LEAPS, setting out clearly the reasons why the interim measures should be lifted. This shall be reviewed by LEAPS.
- 65 An IB, Controller or Inspector who after due process has been removed or suspended from the LEAPS DIB for any reason may not apply for being listed on the DIB until such time set by LEAPS as part of the removal or suspension process.

#### **MISCELLANEOUS**

- 66 LEAPS reserves the right to amend the SOPs at any time. Notwithstanding this, LEAPS may consult with Controllers/operators, IBs and regulators in respect of such amendments.

# APPENDIX 1

## ASSET CATEGORIES



The Asset categories listed below provide a framework for Controllers to categorise most Assets, if further clarification is required then this should be sought from LEAPS.

### **ASSET CATEGORY 1**

The largest, most complex of Assets with the highest perceived risk if they fail. These are typically powered, 'adult' type Assets and are likely to have a combination of two or more of the following qualification criteria:

- Notwithstanding the criteria below any adult type of roller coaster would typically be assigned as a category 1 Asset.
- A control system with networked and/or multiple PLCs, requiring high control system safety integrity due to the complexity of the Asset and architecture and multiple potential failure modes.
- Hydraulic and/or pneumatic systems moving in more than 2 axes.
- Restraint locking system of class 5 (BS EN 13814-1, pg 73, table 12) or acceleration levels residing in area 5 of figure 22 (BS EN 13814-1, pg 69, Figure 22).
- There is a risk of the Asset stopping at a significant height in the event of failure.
- Typical starting point for a large water ride although risk assessment may justify moving to a category 2 Asset.

### **ASSET CATEGORY 2**

Less complex than Category 1 Assets but still present a high perceived risk if they fail. These are typically powered, 'adult' type Assets and are likely to have a combination of two or more of the following qualification criteria:

- A control system incorporating one or more logic controllers (or relay, timer, contactor etc, control systems).
- Hydraulic and/or pneumatic systems moving in more than 2 axes.
- Restraint locking system of either class 3 or 4 (BS EN 13814-1, Table 12) or acceleration levels residing in area 3 or 4 (BSEN 13814-1, pg 69, Figure 22).

### **ASSET CATEGORY 3**

Medium perceived risk Assets which are typically smaller or larger juvenile Assets with one or more of the following qualification criteria:

- Notwithstanding the criteria below any juvenile type of roller coaster would typically be assigned as a category 3 Asset.
- Motive power.

- Control system which does not use complex block control to ensure safe separation of vehicles.
- Simple hydraulic or pneumatic components moving in up to two axes.
- Restraint locking system of either class 2 or 3 (BS EN 13814-1, Table 12).

#### **ASSET CATEGORY 4**

Relatively low perceived risk Assets if they fail, typically with one or more of the following qualification criteria:

- Hand turned or with single slow speed motive power.
- Can only move through one or two axes.
- Restraint locking system of either class 1 or 2 (BS EN 13814-1, Table 12).
- Battery powered Assets that are designed to be used on water.

#### **ASSET CATEGORY 5**

Relatively low perceived risk Assets if they fail, typically with one or more of the following qualification criteria:

- Non-mechanical Asset but not an inflatable as described in BS EN 14960.
- No motive power other than for erection.
- Potential for a significant fall from height or contact with an object in relative motion.
- Typical starting point for a walkthrough/maze.

#### **ASSET CATEGORY 6**

Very low perceived risk Assets if they fail, typically with one or more of the following qualification criteria:

- Battery powered Assets that have not been designed to be used on water.
- Coin operated.
- Slow moving.

#### **ASSET CATEGORY 7**

Inflatable device as described in BS EN 14960.



# APPENDIX 2

## LEGACY ASSETS

This Appendix is applicable to Controllers who on joining LEAPS have Assets as described in Table 2 of HSG 175, but which have not gone through the SSOA as defined in Table 1 of HSG 175. This may be because, as examples, the Controller is non-UK based, the asset is historic and has been brought back into service after a long period out of use or has been brought into the UK after use abroad since new. Controllers/IBs should contact LEAPS to ensure this route onto the DA is applicable in their circumstances before starting it.

Once the Controller has joined the scheme the SSOA must be followed for any new Assets that are brought into service.

The information contained below, when considered as a whole, may demonstrate that the Asset has a history of safe operation indicating that the risks to the health and safety of those maintaining and operating it, and those using it have been reduced so far as is reasonably practicable through design, inspection and maintenance and LEAPS will consider the device to be accepted onto the DA.

The Controller must obtain the following in respect of the Asset.

A LEAPS-registered IB that has the scope for Pre-Use inspections must be contracted to assess and investigate the Asset and provide a report confirming that the device is safe for continued use taking into consideration the EN 13814-01:2019 standard and that a Pre-Use inspection regime has not been undertaken. The report must also explain why the Asset has not undergone the Pre-use inspection process. The report must include detailed information on points 1-10 as a minimum, other areas, for example the control system should be explored by the IB to confirm they are satisfied. The IB must detail the scope, extent and conclusion of the report. The areas below are the minimum requirements for the report, but additional areas should be considered by the IB or other areas may arise during the inspection process.

- 1 Information on the design of the Asset and critical components which should be consistent with appropriate standards, specifications, guidelines and industry best practise. A design risk assessment to ISO 12100, design calculations including fatigue life and the mechanical and structural safety of the Asset.
- 2 The critical components must be detailed to include material grades, calculations and fatigue life calculations.
- 3 An ergonomics assessment must be included and the adequacy of the restraint system.
- 4 Theming must be considered for the report to include the structural and mechanical safety.
- 5 Inspection and maintenance schedules which must also include where appropriate an NDT schedule that is sufficiently detailed, as defined in Appendix 5 (Non-destructive testing) of the HSG175 document.
- 6 Inspection and maintenance reports for the preceding 5 years showing work has been carried out by competent people.
- 7 Details of any safety critical modifications that have taken place since the Asset was manufactured and any associated Pre-Use reports.

- 8 Details of any accident history going back a minimum of 5 years. If the history indicates a contributing factor to any accident is due to a failure in design, then this must be brought to the attention of LEAPS prior to the Controller being accepted onto the DO.
- 9 The suitability of the barriers, fencing and guarding, to include access and egress areas, taking into account emergency evacuation and maintenance work.
- 10 Operations manual as defined in Appendix 3 of HSG 175 or equivalent.
- 11 Operational risk assessment.

11.1 Controllers shall have identified and documented in their operational risk assessment:

- a) Hazards due to the failure of a safety-critical part.
- b) The people at risk, e.g., riders, operators or bystanders.
- c) That the integrity of the design and construction, reduces risks to health and safety to an acceptable level which is evidenced through several years of safe operation.
- d) That the design and the inspection and maintenance schemes take account of all types of failure.