

# Independent Inspector Annual Compliance Report UK Market - FINAL

Reporting Period 2023

## Games Consoles Voluntary Agreement



**SCOPE OF WORK:**

**COMPLIANCE REPORT FOR THE UK VOLUNTARY AGREEMENT  
ON ENERGY AND RESOURCE EFFICIENCY  
OF GAMES CONSOLES**

**REPORT NUMBER:**

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## Independent Inspector Annual Compliance Report UK Market – FINAL

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### CUSTOMER

Signatories for the Voluntary Agreement  
on energy and resource efficiency of games  
consoles

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## 1 SUMMARY

### 1.1 Commitments and Requirements

This Annual Compliance Report (ACR) from the Independent Inspector for the Voluntary Agreement (VAI) covers the reporting period January 2023 through December 2023 for in-scope consoles sold in the UK.

The VA covers games consoles placed on the UK market by the three Signatories. This accounts for 100% of the in-scope games consoles sold in the UK in 2023.

Games consoles covered by the VA are mains powered devices with handheld or other interactive controllers, use external televisions as a primary display, use dedicated console operating systems and use internal or dedicated external power supply units. For consoles that consume more than 20W in Active Gaming mode, all the requirements apply. For consoles that consume less than 20W, all requirements apply except the Energy Efficiency Requirements (section 3.1 of the VA).

The VA aims to further improve the energy efficiency of games consoles and reduce the environmental impact over their life cycle with energy and resource efficiency through better design.

The key requirements covered by the VA are:

- Compliance with Auto-Power Down (APD) requirements
- Ensure that maximum power consumption targets (power caps) are not exceeded
- Resource efficiency and end-of-life design requirements
- Information provision: including energy and non-energy related information in the user instructions and to repairers or recyclers
- Achieving specific Market Coverage

### 1.2 Signatories

There are three manufacturers that are Signatories to the games console VA:

- Microsoft Corporation
- Nintendo Co., Ltd.
- Sony Interactive Entertainment (SIE)

### 1.3 Data Collection and Processing

The Independent Inspector reviewed the Product Compliance Reports (PCRs), covering each games console, submitted by the Signatories.

The Product Compliance Report indicates compliance to the VA requirements by listing links to online information. The percentage of compliant models sold during the reporting period is also declared via the PCR.

The Independent Inspector reported back to the Signatories individually after reviewing the Product Compliance Reports. No non-compliances or issues were reported.

## 1.4 Annual Reporting Compliance

In order to comply with the VA, Signatories must achieve the following reporting obligations:

1. Ensure that Product Compliance Reports for all games consoles within the scope of the VA are submitted to the Independent Inspector on time
2. Ensure that the Product Compliance Reports for all games consoles are complete
3. Ensure that no more than 10% of products, within the scope of the VA, from an individual Signatory fail to comply with the requirements in the VA
4. Demonstrate that the VA covers more than 80% of the games consoles sold in the UK for the preceding reporting period (bi-annually)

Only the first three commitments listed above are covered using the Product Compliance Report submitted to the Independent Inspector and covered in this report. The market data compliance regarding aggregate sales of consoles in the UK must be provided by the Signatories directly to the Secretary of State.

## 1.5 Compliance Verification Investigation

The verification investigation reported in this ACR is for testing undertaken during 2023 after PCRs were submitted for consoles sold during 2022. The compliance verification investigation was undertaken in July 2023 against version 1.1 for the VA. Only one SIE console was tested – the PlayStation 5 Digital. This was to update test results obtained the previous year on a version of this console which had been provided by the manufacturer, due to retailer supply issues. The console complied with the requirements.

## 1.6 Overall Compliance

All the Signatories met the reporting requirements of the VA for in-scope games consoles by providing complete Product Compliance Reports, on time, and declaring compliance with the VA requirements for the necessary percentage of consoles sold in the UK.

## 2 INTRODUCTION

The Voluntary Agreement (VA) establishes a voluntary agreement, under the terms of UK Directive 2009/125/EC on Energy Related Products, for improved energy and resource efficiency, and end-of-life treatment and recycling of games consoles. The VA, with the scope, definitions and commitments can be viewed on the dedicated website; [www.efficientgaming.info](http://www.efficientgaming.info)

The scope of the VA includes games consoles that are mains powered and also:

- Utilise either dedicated handheld or other interactive controllers designed to enable game playing (rather than the mouse and keyboard used by personal computers)
- Are equipped with audio-visual outputs for use with external televisions as the primary display
- Use dedicated Console operating systems (rather than using a conventional PC operating system) and
- Use either internal or dedicated external power supply units

The main categories of commitments and requirements detailed in the VA<sup>1</sup> include:

- Compliance with Auto-Power Down (APD) requirements (3.1.1)
- Not exceeding maximum power consumption targets (power caps) (3.1.2)
- Resource efficiency and end-of-life design requirements (3.2)
- Information provision: including energy and non-energy related information in the user instructions and to repairers or recyclers (3.1.4, 3.2.2 and Annex B)
- Achieving specific Market Coverage: as a sector and individual manufacturer
- Other commitments such as maintaining information on a dedicated website (3.3)

This Annual Compliance Report (ACR), prepared by the Independent Inspector, covers the reporting period January 2023 through December 2023. It includes information on the compliance by the Signatories according to the Games Console VA version 1.1 (published January 2023).

This ACR has been compiled following the submission of Product Compliance Reports (PCR) by the Signatories to the Independent Inspector. The PCR enables Signatories to report where product information can be found using online links, and demonstrate compliance with the requirements set out in the VA. The submission of the PCR has been reviewed by the Independent Inspector against the reporting obligations in the VA.

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<sup>1</sup> Parentheses provide VA paragraph references

### 3 LIST OF SIGNATORIES

For the reporting period January through December 2023, there were three Signatories to the VA for games consoles. These are the manufacturers that instigated and worked together to produce, and continually undertake revisions to, the VA.

- Microsoft Corporation
- Nintendo Co., Ltd.
- Sony Interactive Entertainment Inc.

### 4 COMMITMENTS AND REQUIREMENTS

The following sections provide a summary of the commitments and requirements for Signatories of the games console Voluntary Agreement (VA). Further detail and full wording can be found in the published VA (version 1.1) at [www.efficientgaming.info](http://www.efficientgaming.info)

The energy efficiency requirements apply to in-scope consoles consuming more than 20W in Active Gaming mode. The Resource Efficiency requirements apply to all in-scope consoles.

#### 4.1 Commitments for ACR Review

The VA specifies four reporting commitments to be met by the Signatories:

1. Ensure that Product Compliance Reports for all games consoles within the scope of the VA are submitted to the Independent Inspector on time
2. Ensure that the Product Compliance Reports for all games consoles are complete
3. Ensure that no more than 10% of products, within the scope of the VA, from an individual Signatory fail to comply with the requirements in the VA
4. Demonstrate that the VA covers more than 80% of the games consoles sold in the UK for the preceding reporting period (bi-annually)

Only the first two commitments listed above are checked by the Independent Inspector, the third commitment is declared on the PCR.

The market data compliance regarding aggregate sales of consoles in the UK (point 4) must be provided by the Signatories directly to the Secretary of State.

#### 4.2 Energy and Resource Efficiency Requirements

The following requirements are specified in the VA in relation to energy usage and resource efficiency, including providing information to consumers. Compliance with these requirements, either by measurement or manufacturers' declared values, is only checked by the Independent Inspector when a compliance investigation is undertaken (see section 7 of this report).

## 4.2.1 Energy Efficiency

The VA specifies auto-power down and power caps applicable to Media Playback and Navigation modes. These are applicable to consoles using more than 20W in Active Gaming mode. Further details can be found in Appendix B of this report.

### Auto-Power Down

The VA specifies requirements for the duration of time before Auto-Power Down (APD) is triggered and the console is powered down to a low power state:

- For operational modes other than Media Playback:
  - 1 hour or less from the time of the last user input
- In Media Playback mode:
  - within 4 hours of starting any audio or video media playback
  - or within 1 hour or less of user inactivity after termination of video media content

### Power Caps

In order to achieve a progressive improvement in energy efficiency, power caps are specified in tiers. The power caps applicable for the 2023 reporting period are given below.

#### Navigation Mode - Tier 6 (effective from 01.01.2021) - power caps:

- High Definition consoles 50W (Measured at HD video resolutions)
- Ultra-high definition consoles:
  - Media Capable 50W (Measured at HD and UHD video resolutions)
  - Gaming Capable 65W (Measured at HD video resolutions)  
70W (Measured at UHD video resolutions)
- 8K-compatible consoles 70W (Measured at HD and UHD video resolutions)

#### Media Playback - Tier 6 (effective from 01.01.2021) - power caps:

- High definition consoles 60W (Measured at HD video resolutions)
- Ultra-high definition consoles
  - Media Capable 60W (Measured at HD and UHD video resolutions)
  - Gaming Capable 70W (Measured at HD video resolutions)  
110W (Measured at UHD video resolutions)
- 8K-compatible consoles 70W (Measured at HD video resolutions)  
100W (Measured at HD and UHD video resolutions)

## 4.2.2 Energy Efficiency Information

Power consumption information shall be provided to consumers for all consoles in scope of the VA. This is within the operating instructions provided with the console itself, onscreen or hardcopy, or online. Energy efficiency information will be neutrally worded so as not to encourage users to disable power-saving features.

## 4.3 Resource Efficiency Requirements

There are two main areas covered by non-energy commitments:

1. Resource efficiency requirements to promote repair and recyclability
2. Information to be provided to consumers and repairers

A summary of the requirements applicable to this reporting period is given below.

### 4.3.1 Requirements to promote repair and recyclability

- A refurbishment or out-of-warranty repair service shall be available –
  - Hard disk drive and External power supply are specific components that shall be made available to professional repairers and end users
  - Key components (optical drive, motherboard, hard disk drive, internal power supply) shall be made available to facilitate repair by authorized repair and refurbishment centres
- To improve recycling and reuse –
  - maintenance and refurbishment shall be possible by non-destructive disassembly of key components (motherboard, hard disk drive, optical drive, internal power supply)
  - joining and sealing techniques are used that do not prevent removal of components
- To improve recycling at end-of-life –
  - plastic parts will be marked specifying the type of resin (parts >25g, with some exceptions)
  - any external plastic enclosure components >100 g are removable using tools commercially available to recyclers
  - to improve the recyclability, external plastic enclosure parts >25 g shall not contain halogenated flame retardants >0.1 % by weight

### 4.3.2 Information Requirements

- To support product life extension, provide **consumers** (via onscreen, hardcopy or online instructions) information on –

- how to keep the product in good working order
- instructions on deleting personal data
- information on options to upgrade the console (if available)
- information on end-of-life processing, refurbishment and out-of-warranty repair options
- information on reparability, such as:
  - whether commercially available or specialized proprietary tools are necessary
  - whether any repairer or authorized experts are required for repair diagnostics
  - availability of spare parts by all repairers or only manufacturer authorized providers
  - whether an out-of-warranty repair service is provided
- Information for refurbishment or out-of-warranty **repair service** supported by –
  - technical documents available to authorised repair centres
  - information provided to repair and recycling operations regarding halogenated flame retardants in external plastic enclosures >25g (with exceptions)
  - information provided to enable product disassembly, including access to targeted components, fastening techniques and tools required

#### 4.4 Other Commitments

Other requirements in the VA include –

- the Signatories providing a dedicated VA website in order to publicise and disseminate information regarding the VA, including, amongst other things; general market information, a list of compliant consoles, published documents such as copies of the VA versions and reports
- Introduced in January 2022, the website also provides power consumption for navigation, media play, gaming and low power modes

## 4.5 Market Coverage

The Signatories to the VA, in aggregate, must account for more than 80% of the unit sales of Games Consoles in the UK for the relevant Reporting Period. Signatories are required to provide independent market data to prove this level of market coverage to the Secretary of State every two years.

Each Signatory must ensure that at least 90% of the games console units it places on the market and/or put into service meet the requirements of the VA.

## 5 DATA DECLARATIONS AND PROCESSING

### 5.1 Product Compliance Report Template

For this Annual Compliance Report the Product Compliance Report (PCR) template was used for the Signatories to declare compliance with the requirements of the VA. The template enables each Signatory to report on all the consoles within one document. The template is reproduced in Appendix A of this report.

To prevent PCR duplication for consecutive years the Signatories record whether a games console is:

- a new games console
- a revised model of an existing games console
- or an existing games console model

This allows the Signatory to refer to a previously submitted PCR rather than completing sections of the template, each year, for existing consoles. For a new console placed on the market a section in the PCR is fully completed for that model.

The Product Compliance Reports contain no actual performance data (e.g. energy consumption). The majority of the data required to demonstrate compliance with the requirements is also the information that is to be published to consumers. The links to online information in the PCR enable the Signatories to cover all the VA requirements in one place.

### 5.2 Data Processing

Product Compliance Reports (PCR) were submitted by all three Signatories.

**Microsoft** had two existing models falling within the scope of the VA. This year's PCR provided a link to the previous PCR for these consoles provided in 2021, available on the Efficientgaming website.

**Nintendo** had two existing models falling within the scope of the VA (consoles using less than 20W). This year's PCR provided a link to the previous PCR (2022) for these consoles available on the Efficientgaming website – which in turn refer to the PCR from 2021.

**Sony Interactive Entertainment (SIE)** had five models of games consoles listed in the PCR. Three were previously report on and therefore existing models, two were also existing models but with revisions resulting in updated new model numbers but no changes effecting power consumption compared to previous models. SIE therefore referred to PCRs already available via the Efficientgaming website. (Four of the models had previous PCRs from 2021, the fifth had been submitted for the 2018 reporting period).

The Independent Inspector reviewed the PCRs for completeness. This involved checking that the online links provided in the PCR went to appropriate web pages, but the actual content on these pages was not reviewed.

### 5.3 Market Coverage

Using the Product Compliance Report format the Signatories specified what percentage of products sold complied with the VA. Actual recorded sales figures are only required if the Signatory states that less than 90% of products sold comply with the VA requirements.

All the three Signatories stated that 100% of consoles sold in 2023 complied with the requirements of the VA.

The VA commitment to demonstrate that the VA covers at least 80% of the games consoles sold in the UK is not part of the annual review and reporting by the Independent Inspector. The VA states that Signatories will provide data from an independent 3rd party to the Secretary of State to prove market coverage within three months following a change in Signatories, and will reconfirm market coverage every two years during the operation of the VA<sup>2</sup>.

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<sup>2</sup> Energy Efficiency of Games Consoles, Voluntary Agreement to further improve the energy efficiency of Games consoles, Version 1.1, Section 4.2

## 6 SIGNATORY COMPLIANCE

The VA specifies four commitments to be met by the Signatories:

1. Ensure that Product Compliance Reports for all games consoles within the scope of the VA are **submitted** to the Independent Inspector **on time**
2. Ensure that the Product Compliance **Reports** for all games consoles **are complete**
3. Ensure **that no more than 10% of products**, within the scope of the VA, from an individual Signatory **fail to comply with the requirements** in the VA
4. Demonstrate that the VA covers more than 80% of the games consoles sold in the UK for the preceding reporting period (bi-annually)

Only the first three commitments listed above are considered by the Independent Inspector, using the Product Compliance Template, prior to the compilation of this annual report.

The market data compliance regarding aggregate sales of consoles in the UK (point 4) must be provided by the Signatories directly to the Secretary of State.

### 6.1 Submission of Product Compliance Reports

All initial Product Compliance Reports (PCR) were received by the Independent Inspector within the timeframe given in the VA (by the end of February).

### 6.2 Product Compliance Report Completeness

Following a review by the Independent Inspector, each Signatory was contacted individually: there were no reporting or content issues regarding the PCRs for any of the Signatories.

### 6.3 Market Coverage

All three Signatories with in-scope consoles declared, via the Product Compliance Reports, compliance with the requirements of the VA for at least 90% of products sold in the UK.

## 7 VA REQUIREMENTS COMPLIANCE INVESTIGATION

The VA applicable at the time of this report included a requirement that a product compliance investigation may be conducted on any new games console model or a revised model after it is first placed on the market. Such an investigation uses product testing and the links provided in the PCR to verify the self-declared values and data provision. Annex A-1 and A-2 of the VA specifies methods of verification for energy consumption and non-energy requirements & energy efficiency information. For new consoles a product compliance investigation takes place after the submission of the PCR.

The testing and verification were undertaken by the Consumer Electronics division of Intertek Performance Electrical & Network Assurance test facility in Milton Keynes, UK.

## 7.1 Testing and Reporting

The investigation and testing in 2023 covered consoles with PCRs submitted in February 2023 for the reporting period January through December 2022.

Only the SIE PlayStation 5 Digital Edition (CFI-1216B) was selected for testing, the majority of other consoles PCRs submitted in 2023, for the 2022 reporting period, had been previously tested.

The testing of this console was to verify the results which had previously been obtained in 2021 using a manufacturer provided sample - the PlayStation 5 Digital Edition CFI-1016B. The manufacturer sample was used in 2021 due to retailers supply issues. The retests were due to take place in 2022 using subsequent version – the CFI-1116B – but when purchased from a retailer the more recent version, the SIE PlayStation 5 Digital Edition CFI-1216B was supplied. This newer version was then held for the 2023 compliance verification tests.

## 7.2 Compliance

From the energy efficiency testing and the review of evidence for non-energy requirements, the tested console complied with the requirements according to VA version 1.1.

## 8 OVERALL COMPLIANCE

For the reporting period January through December 2023, all the three Signatories comply with the reporting commitments in the VA, in terms of the submission of Product Compliance Reports and declaring market coverage.

### 8.1 Signatories and Games Consoles

Table 1 below lists the manufacturers and the corresponding games consoles that are covered by the UK Voluntary Agreement for the reporting period January through December 2023. Consoles not included in previous reports are identified in *italics*.

The two newly listed SIE PlayStation 5 consoles have the same model number as they are identical. The model has a detachable disc drive, which is an optional purchase.

Table 1. Compliant models covered by the VA (reporting period 2023)

<b>Manufacturer</b>	<b>Games Console Name</b>	<b>Model no.</b>	<b>Type</b>
Microsoft	Xbox Series X	1882	8K Definition Capable
Microsoft	Xbox Series S	1883	Ultra High-Definition Media Capable
Nintendo	Nintendo Switch	HAC-001(-01)	High Definition <20W
Nintendo	Nintendo Switch - OLED Model	HEG-001	High Definition <20W
<b>SIE</b>	PlayStation®4	CUH-2216	Ultra High-Definition Media Capable
<b>SIE</b>	PlayStation®5	CFI-1216A	8K Definition Capable
<b>SIE</b>	PlayStation®5 Digital Edition	CFI-1216B	8K Definition Capable
<i>SIE</i>	<i>PlayStation®5</i>	<i>CFI-2016</i>	<i>8K Definition Capable</i>
<i>SIE</i>	<i>PlayStation®5 Digital Edition</i>	<i>CFI-2016</i>	<i>8K Definition Capable</i>

## 9 RECOMMENDATIONS

There are no recommendations in relation to the reporting process, data handling and product compliance review associated with the role of the Independent Inspector for the production of the Annual Compliance Report.



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## **Appendix A - PRODUCT COMPLIANCE REPORTING TEMPLATE**

The template reproduced here was generated in Microsoft Word by the Signatories and allows all appropriate games consoles models to be reported on in one document, with a summary at the beginning. (A copy is available on the Efficientgaming website under 'Compliance')

This UK PCR is submitted for compliance with the Games Console Voluntary Agreement (UK SRI version 1.1).

For further information please see: [UK Voluntary Agreement: Efficient Gaming](#)

UK PCR version: 1.1

Date: [dd/mm/yyyy]

### UK Product Compliance Report Summary

Signatory company	Choose an item.				
Reporting period	Jan – Dec [yyyy]				
Date submitted	[dd/mm/yyyy]				
Completed by	[name]				
Contact details	[VA Administrator details]				
List of consoles within scope of SRI					
#	Model name	Model number	Console type	Status	< 20 W
A.	[model name]	[model number]	Choose an item.	Choose an item.	<input type="checkbox"/>
B.	[model name]	[model number]	Choose an item.	Choose an item.	<input type="checkbox"/>
The Signatory complies with the requirements of the SRI for:			100% of products sold		

#	Reference to previously submitted PCR for applicable models	Submitted on:
A.	[Link/reference for model A if applicable]	Click or tap to enter a date.
B.	[Link/reference for model B if applicable]	Click or tap to enter a date.

This UK PCR is submitted for compliance with the Games Console Voluntary Agreement (UK SRI version 1.1).

For further information please see: [UK Voluntary Agreement: Efficient Gaming](#)

UK PCR version: 1.1

Date: [dd/mm/yyyy]

UK Product Compliance Report (A)

A.	Model name	[model name]	Model number	[model number]	< 20 W	<input type="checkbox"/>
	Console type	Choose an item.	Status	Choose an item.		
Additional model information						

## Section 1.a

The following information and documents are submitted in support of this declaration by the references provided		References to documentation / hyperlink
1.1	Information on the energy-saving potential of power management. (Section 3.1)	
1.2	Information on default regulatory standby mode when the Games Console is powered-down. (Section 3.1)	
1.3	Information on the default auto power-down time settings. (Section 3.1)	
1.4	Information on how to change time settings for auto power-down. (Section 3.1)	
1.5	References to further information on other available low power modes. (Section 3.1)	
1.6	Information on console power consumption of navigation, media play, gaming, regulatory standby mode(s) and other user-enabled low power conditions. (Section 3.1)	
1.7	Information on availability of end-of-life processing, refurbishment, out-of-warranty services. (Section 3.2)	
1.8	Information on product life extension: explanation on how to keep the consoles in good working condition. (Section 3.2)	
1.9	Information on product life extension: how to delete personal data. (Section 3.2)	
1.10	Information on product life extension: options available (if any) to consumers to upgrade the performance of their consoles. (Section 3.2)	

This UK PCR is submitted for compliance with the Games Console Voluntary Agreement (UK SRI version 1.1).

For further information please see: [UK Voluntary Agreement: Efficient Gaming](#)

UK PCR version: 1.1

Date: [dd/mm/yyyy]

1.11	Clear and consistent information, based on CENELEC standards, regarding the reparability of the console is available. (Section 3.2)	
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### Section 1.b

The Signatory company also confirms via this Product Compliance Report the following		Confirmed by the Signatory
1.12	Technical documentation, as requested in Section 3.2.2, is made available to authorized repair services.	<input type="checkbox"/>
1.13	Product disassembly instructions, as requested in Section 3.2.2, are made available to repair and recycling operations.	<input type="checkbox"/>

### Section 2.

#	Reasons for non-compliance	Supporting documentation / reference / hyperlink

This UK PCR is submitted for compliance with the Games Console Voluntary Agreement (UK SRI version 1.1).

For further information please see: [UK Voluntary Agreement: Efficient Gaming](#)

UK PCR version: 1.1

Date: [dd/mm/yyyy]

UK Product Compliance Report (B)

B	Model name	[model name]	Model number	[model number]	< 20 W	<input type="checkbox"/>
	Console type	Choose an item.	Status	Choose an item.		
Additional model information						

Section 1.

The following information and documents are submitted in support of this declaration by the references provided		References to documentation / hyperlink
1.1	Information on the energy-saving potential of power management. (Section 3.1)	
1.2	Information on default regulatory standby mode when the Games Console is powered-down. (Section 3.1)	
1.3	Information on the default auto power-down time settings. (Section 3.1)	
1.4	Information on how to change time settings for auto power-down. (Section 3.1)	
1.5	References to further information on other available low power modes. (Section 3.1)	
1.6	Information on console power consumption of navigation, media play, gaming, regulatory standby mode(s) and other user-enabled low power conditions. (Section 3.1)	
1.7	Information on availability of end-of-life processing, refurbishment, out-of-warranty services. (Section 3.2)	
1.8	Information on product life extension: explanation on how to keep the consoles in good working condition. (Section 3.2)	
1.9	Information on product life extension: how to delete personal data. (Section 3.2)	
1:10	Information on product life extension: options available (if any) to consumers to upgrade the performance of their consoles. (Section 3.2)	

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For further information please see: [UK Voluntary Agreement: Efficient Gaming](#)

UK PCR version: 1.1

Date: [dd/mm/yyyy]

1.11	Clear and consistent information, based on CENELEC standards, regarding the reparability of the console is available. (Section 3.2)	
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## Section 1.b

The Signatory company also confirms via this Product Compliance Report the following		Confirmed by the Signatory
1.12	Technical documentation, as requested in Section 3.2.2, is made available to authorized repair services.	<input type="checkbox"/>
1.13	Product disassembly instructions, as requested in Section 3.2.2, are made available to repair and recycling operations.	<input type="checkbox"/>

## Section 2.

#	Reasons for non-compliance	Supporting documentation / reference / hyperlink



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### Notes for Independent Inspector

#	Notes	Regarding



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## **Appendix B – VOLUNTARY AGREEMENT KEY POWER CONSUMPTION REQUIREMENTS**

The following tables detail the power cap and Auto-Power Down (APD) requirements for the VA version 1.1. Further detail can be found in the VA.

### Power consumption caps

Mode	Tier	Effective from	High Definition Consoles (W)	Ultra High-Definition Consoles (W)		8K-capable Consoles (W)
				Media Capable	Gaming Capable	
Navigation Mode	Tier 1	01-Jan-14	90 <sup>1</sup>	90 <sup>2</sup>		na
	Tier 2	01-Jan-16	90 <sup>1</sup>	90 <sup>2</sup>		na
	Tier 3	01-Jan-17	70 <sup>1</sup>	70 <sup>2</sup>		na
	Tier 4	01-Jan-19	50 <sup>1</sup>	Media Capable 50 <sup>2</sup>	Gaming Capable 70 <sup>2</sup>	na
	Tier 5	01-Jan-20	50 <sup>1</sup>	50 <sup>2</sup>	65 <sup>2</sup> 70 <sup>3</sup>	na
	Tier 6	01-Jan-21	50 <sup>1</sup>	50 <sup>2</sup>	65 <sup>2</sup> 70 <sup>3</sup>	70 <sup>2</sup>
Media Playback DVD	Tier 1	01-Jan-14	90 <sup>1</sup>	na	na	na
	Tier 2	01-Jan-16	90 <sup>1</sup>	90 <sup>1</sup>		na
Media Playback Blu-ray Disc	Tier 3	01-Jan-17	70 <sup>1</sup>	90 <sup>1</sup>		na
	Tier 4	01-Jan-19	60 <sup>1</sup>	Media Capable 60 <sup>2</sup>	Gaming Capable 70 <sup>1</sup> 110 <sup>3</sup>	na
Streaming HD	Tier 5	01-Jan-20	60 <sup>1</sup>	60 <sup>2</sup>	70 <sup>1</sup> 110 <sup>3</sup>	na
	Tier 6	01-Jan-21	60 <sup>1</sup>	60 <sup>2</sup>	70 <sup>1</sup> 110 <sup>3</sup>	70 <sup>1</sup> 100 <sup>2</sup>

<sup>1</sup> Measured at HD video resolutions

<sup>2</sup> Measured at HD and UHD video resolutions

<sup>3</sup> Measured at UHD video resolutions

### Auto-Power Down

Title	Requirement
Navigation Mode	APD to trigger within 60 minutes to the power limits for applicable low power mode
Active Gaming	APD to trigger within 60 minutes to the power limits for applicable low power mode
Disc-Based Media Playback	APD to trigger within 4 hours of starting any audio or video media playback or within 1 hour or less of user inactivity after termination of video media content to the power limits for applicable low power mode
Media Streaming Playback	APD to trigger within 4 hours of starting any audio or video media playback or within 1 hour or less of user inactivity after termination of video media content to the power limits for applicable low power mode