



GENERIC DESIGN ASSESSMENT
DESIGN ACCEPTANCE CONFIRMATION
FOR THE UK HPR1000 NUCLEAR REACTOR

The Office for Nuclear Regulation (ONR), in accordance with the document 'New Nuclear Reactors: Generic Design Assessment Guidance to Requesting Parties for the UK HPR1000', ONR-GDA-GD-001 Revision 4, October 2019, hereby gives China General Nuclear Power Corporation, Électricité de France S.A., and General Nuclear International Limited a Design Acceptance Confirmation (DAC) for the UK HPR1000 nuclear reactor.

This DAC:

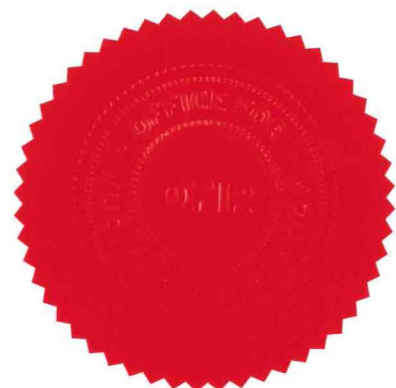
1. is given following the assessment of the material included in the Generic Design Assessment (GDA) submissions described in the Annex;
2. does not guarantee that ONR will grant permission for the construction of a power station based on the UK HPR1000 nuclear reactor design at a particular site in Great Britain. Any organisation intending to build and operate a UK HPR1000 reactor in Great Britain must first obtain from ONR a nuclear site licence, as required under the Nuclear Installations Act 1965; and
3. is valid for a period of ten years beginning on the date on which it is issued.

Signed

Date of Issue

19th JANUARY 2022

Mr Mark Foy
Chief Executive and Chief Nuclear Inspector
Office for Nuclear Regulation



Annex

UK HPR1000 GDA Project – Pre-Construction Safety Report:

1. Pre-Construction Safety Report – Chapter 01 ‘Introduction’.
HPR/GDA/PCSR/0001, Revision 002. GNSL. 29 September 2021
2. Pre-Construction Safety Report – Chapter 02 ‘General Plant Description’.
HPR/GDA/PCSR/0002, Revision 002. GNSL. 29 September 2021
3. Pre-Construction Safety Report – Chapter 03 ‘Generic Site Characteristics’.
HPR/GDA/PCSR/0003, Revision 002. GNSL. 29 September 2021
4. Pre-Construction Safety Report – Chapter 04 ‘General Safety and Design Principles’.
HPR/GDA/PCSR/0004, Revision 002. GNSL. 29 September 2021
5. Pre-Construction Safety Report – Chapter 05 ‘Reactor Core’.
HPR/GDA/PCSR/0005, Revision 002. GNSL. 29 September 2021
6. Pre-Construction Safety Report – Chapter 06 ‘Reactor Coolant System’.
HPR/GDA/PCSR/0006, Revision 002. GNSL. 29 September 2021
7. Pre-Construction Safety Report – Chapter 07 ‘Safety Systems’.
HPR/GDA/PCSR/0007, Revision 002. GNSL. 29 September 2021
8. Pre-Construction Safety Report – Chapter 08 ‘Instrumentation and Control’.
HPR/GDA/PCSR/0008, Revision 002. GNSL. 29 September 2021
9. Pre-Construction Safety Report – Chapter 09 ‘Electric Power’.
HPR/GDA/PCSR/0009, Revision 002. GNSL. 29 September 2021
10. Pre-Construction Safety Report – Chapter 10 ‘Auxiliary Systems’.
HPR/GDA/PCSR/0010, Revision 002. GNSL. 29 September 2021
11. Pre-Construction Safety Report – Chapter 11 ‘Steam and Power Conversion System’.
HPR/GDA/PCSR/0011, Revision 002. GNSL. 29 September 2021
12. Pre-Construction Safety Report – Chapter 12 ‘Design Basis Condition Analysis’.
HPR/GDA/PCSR/0012, Revision 002. GNSL. 29 September 2021
13. Pre-Construction Safety Report – Chapter 13 ‘Design Extension Conditions and Severe Accident Analysis’.
HPR/GDA/PCSR/0013, Revision 002. GNSL. 29 September 2021
14. Pre-Construction Safety Report – Chapter 14 ‘Probabilistic Safety Assessment’.
HPR/GDA/PCSR/0014, Revision 002. GNSL. 29 September 2021
15. Pre-Construction Safety Report – Chapter 15 ‘Human Factors’.
HPR/GDA/PCSR/0015, Revision 002. GNSL. 29 September 2021
16. Pre-Construction Safety Report – Chapter 16 ‘Civil Works & Structures’.
HPR/GDA/PCSR/0016, Revision 002. GNSL. 29 September 2021
17. Pre-Construction Safety Report – Chapter 17 ‘Structural Integrity’.
HPR/GDA/PCSR/0017, Revision 002. GNSL. 29 September 2021
18. Pre-Construction Safety Report – Chapter 18 ‘External Hazards’.
HPR/GDA/PCSR/0018, Revision 002. GNSL. 29 September 2021
19. Pre-Construction Safety Report – Chapter 19 ‘Internal Hazards’.
HPR/GDA/PCSR/0019, Revision 002. GNSL. 29 September 2021
20. Pre-Construction Safety Report – Chapter 20 ‘MSQA and Safety Case Management’.
HPR/GDA/PCSR/0020, Revision 002. GNSL. 29 September 2021

21. Pre-Construction Safety Report – Chapter 21 ‘Reactor Chemistry’. HPR/GDA/PCSR/0021, Revision 002. GNSL. 29 September 2021
22. Pre-Construction Safety Report – Chapter 22 ‘Radiological Protection’. HPR/GDA/PCSR/0022, Revision 002. GNSL. 29 September 2021
23. Pre-Construction Safety Report – Chapter 23 ‘Radioactive Waste Management’. HPR/GDA/PCSR/0023, Revision 002. GNSL. 29 September 2021
24. Pre-Construction Safety Report – Chapter 24 ‘Decommissioning’. HPR/GDA/PCSR/0024, Revision 002. GNSL. 29 September 2021
25. Pre-Construction Safety Report – Chapter 25 ‘Conventional Safety and Fire Safety’. HPR/GDA/PCSR/0025, Revision 002. GNSL. 29 September 2021
26. Pre-Construction Safety Report – Chapter 26 ‘Environment’. HPR/GDA/PCSR/0026, Revision 002. GNSL. 29 September 2021
27. Pre-Construction Safety Report – Chapter 27 ‘Security’. HPR/GDA/PCSR/0027, Revision 002. GNSL. 29 September 2021
28. Pre-Construction Safety Report – Chapter 28 ‘Fuel Route and Storage’. HPR/GDA/PCSR/0028, Revision 002. GNSL. 29 September 2021
29. Pre-Construction Safety Report – Chapter 29 ‘Interim Storage of Spent Fuel’. HPR/GDA/PCSR/0029, Revision 002. GNSL. 29 September 2021
30. Pre-Construction Safety Report – Chapter 30 ‘Commissioning’. HPR/GDA/PCSR/0030, Revision 002. GNSL. 29 September 2021
31. Pre-Construction Safety Report – Chapter 31 ‘Operational Management’. HPR/GDA/PCSR/0031, Revision 002. GNSL. 29 September 2021
32. Pre-Construction Safety Report – Chapter 32 ‘Emergency Preparedness’. HPR/GDA/PCSR/0032, Revision 002. GNSL. 29 September 2021
33. Pre-Construction Safety Report – Chapter 33 ‘ALARP Evaluation’. HPR/GDA/PCSR/0033, Revision 002. GNSL. 29 September 2021

UK HPR1000 GDA Project – Generic Security Report:

Generic Security Report. HPR/GDA/GSR/0001, Revision 002. GNSL. 29 September 2021.

UK HPR1000 GDA Project - Design Reference Report:

UK HPR1000 Design Reference Report. NE15BW-X-GL-0000-000047, Revision I. CGN. 10 September 2021

UK HPR1000 GDA Project – Master Document Submission List:

Master Document Submission List. HPR/GDA/REPO/0197, Revision 001. GNSL. 19 November 2021