



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

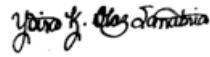
PACIFIC GAS AND ELECTRIC COMPANY
DOCKET NO. 72-27
HUMBOLDT BAY INDEPENDENT SPENT FUEL STORAGE INSTALLATION
AMENDMENT TO MATERIALS LICENSE

Amendment No. 5
License No. SNM-2514

1. The U.S. Nuclear Regulatory Commission (the Commission) has found that:
 - A. The amendment application dated December 14, 2021, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter 1;
 - B. The Humboldt Bay Independent Spent Fuel Storage Installation will continue to operate in conformity with the application, as amended, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance that (i) the activities authorized by this amendment can be conducted without endangering public health and safety, and (ii) such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to public health and safety; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by the enclosed changes to Materials License No. SNM-2514, indicated by margin notations.

3. This license amendment is effective as of the date of issuance and shall be implemented within 90 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Signed by Diaz-Sanabria, Yaira
on 10/11/22

Yaira K. Diaz-Sanabria, Chief
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards

Enclosed: Revised License Pages

Date of Issuance: See digital signature



LICENSE FOR INDEPENDENT STORAGE OF SPENT NUCLEAR FUEL AND HIGH-LEVEL RADIOACTIVE WASTE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, *Code of Federal Regulations*, Chapter 1, Part 72, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, and possess the power reactor spent fuel and other radioactive materials associated with spent fuel storage designated below; to use such material for the purpose(s) and at the place(s) designated below; and to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified herein.

Licensee 1. Pacific Gas and Electric Company	3. License No. SNM-2514 Amendment No. 5 Renewed on June 10, 2020
2. Humboldt Bay Independent Spent Fuel Storage Installation 1000 King Salmon Avenue Eureka, CA 95503	4. Expiration Date November 17, 2065 5. Docket or Reference No. 72-27

6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical or Physical Form	8. Maximum Amount That Licensee May Possess at Any One Time Under This License
A. Spent nuclear fuel from the Humboldt Bay Power Plant, Unit 3, and associated radioactive materials related to receipt, transfer and storage of the fuel assemblies.	A. Spent fuel assemblies as UO ₂ , clad with zirconium alloy. Damaged fuel assemblies, or fuel debris as UO ₂ , zirconium alloy cladding or stainless steel cladding contained in Damaged Fuel Containers.	A. 31 MTU of intact spent fuel assemblies, damaged fuel assemblies and fuel debris.
B. Greater Than Class C Waste; non-fuel related radioactive material generated as a result of reactor operation and decommissioning, where radionuclide concentrations exceed the limits of 10 CFR 61.55 for Class C Waste.	B. Greater Than Class C Waste, as activated metals and process wastes comprised of miscellaneous solid waste resulting from reactor operation and decommissioning.	B. 11 MT of Greater Than Class C Waste
9. Authorized Use: The material identified in 6.A., 6.B., 7.A. and 7.B., above is authorized for receipt, possession, storage and transfer using the HI-STAR HB dry cask storage system design as described in the Humboldt Bay ISFSI Safety Analysis Report dated December 15, 2003, as revised or supplemented on October 1, 2004, October 4, 2012 and as further supplemented and amended in accordance with 10 CFR 72.70 and 10 CFR 72.48.		
10. Authorized Place of Use: The licensed material is to be received, possessed, transferred and stored at the Humboldt Bay ISFSI located in Humboldt County, California, near Eureka, California.		

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LICENSE FOR INDEPENDENT STORAGE OF SPENT NUCLEAR FUEL AND HIGH-LEVEL RADIOACTIVE WASTE SUPPLEMENTARY SHEET		<table border="1"> <tr> <td data-bbox="938 111 1263 174"> License No. SNM-2514 </td> <td data-bbox="1271 111 1572 174"> Amendment No. 5 </td> </tr> <tr> <td colspan="2" data-bbox="938 174 1572 237"> Docket or Reference No. 72-27 </td> </tr> </table>	License No. SNM-2514	Amendment No. 5	Docket or Reference No. 72-27	
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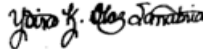
11. The Technical Specifications contained in the Appendix attached hereto are incorporated into the license. The licensee shall operate the installation in accordance with the Technical Specifications in the Appendix. The Appendix contains Technical Specifications related to environmental protection to satisfy the requirements of 10 CFR 72.44(d)(2).
12. The licensee shall follow the physical protection plan entitled, "Humboldt Bay Independent Spent Fuel Storage Installation Physical Security Plan," the "Humboldt Bay Independent Spent Fuel Storage Installation Safeguards Contingency Plan," and the "Humboldt Bay Independent Spent Fuel Storage Installation Security Training and Qualification Plan," dated December 9, 2003, as revised July 11, 2005, and as they may be further amended under the provisions of 10 CFR 72.44(e) and 10 CFR 72.180.
13. Deleted
14. Deleted
15. Deleted
16. Pursuant to 10 CFR 72.7 the licensee is hereby exempted from the provisions of 10 CFR 72.72(d), with respect to maintaining a duplicate set of spent fuel storage records. The licensee may maintain records of spent fuel and high level radioactive waste in storage either in duplicate, as required by 10 CFR 72.72(d), or, alternatively, a single set of records may be maintained at a records storage facility that satisfies the standards of ANSI N45.2.9-1974. All other requirements of 10 CFR 72.72(d) must be met.
17. Deleted
18. Deleted
19. At least one year prior to the period of extended operation, PG&E shall create, update, or revise procedures for implementing the activities in the Aging Management Programs (AMPs) summarized in Appendix D of the license renewal application, and maintained in the updated FSAR. PG&E shall maintain procedures that implement the AMPs throughout the term of this license.

Each procedure for implementing the AMPs shall contain a reference to the specific AMP provision the procedure is intended to implement. The reference shall be maintained if procedures are modified.

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		Docket or Reference No. 72-27	

20. This license is effective as of the date of issuance shown below.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION



Signed by Diaz-Sanabria, Yaira
on 10/11/22

Yaira K. Diaz-Sanabria, Chief
Storage and Transportation Licensing Branch
Division of Fuel Management
Office of Nuclear Material Safety
and Safeguards
Washington, DC 20555

Date of Issuance: See digital signature

As amended by

Amendment 1, dated: August 6, 2008

Amendment 2, dated: August 28, 2009

Amendment 3, dated: September 17, 2013

Amendment 4, dated: September 22, 2015

Renewed License dated: June 10, 2020

Amendment 5, dated: October 11, 2022

Attachment: Appendix - Technical Specifications



HB ISFSI Amendment 5 Issuance Package DATE October 11, 2022

DISTRIBUTION:

JWoodfield, NMSS/DFM/IOB

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JSolis, NMSS/DFM/CTCFB

ADAMS Accession No.: ML22214A115; ML22214A117*** via email**

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DATE	Aug 8, 2022	Aug 10, 2022	Aug 15, 2022	Aug 17, 2022
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DATE	Aug 17, 2022	Oct 7, 2022	Oct 11, 2022	

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