PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI752322

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ULTRA SAFE NUCLEAR CORPORATION	12/27/2024
ULTRA SAFE NUCLEAR CORPORATION - TECHNOLOGIES	12/27/2024

RECEIVING PARTY DATA

Company Name:	STANDARD NUCLEAR, INC.
Street Address:	100 Park Avenue, Suite 3505
City:	New York
State/Country:	NEW YORK
Postal Code:	10017

PROPERTY NUMBERS Total: 45

Property Type	Number
Patent Number:	9620248
Patent Number:	10475543
Patent Number:	10032528
Patent Number:	9299464
Patent Number:	10109378
Patent Number:	10573416
Patent Number:	11101048
Patent Number:	10643754
Patent Number:	11417437
Patent Number:	10878971
Patent Number:	11557403
Patent Number:	11984232
Patent Number:	11189383
Patent Number:	11728047
Patent Number:	12068084
Application Number:	17868302
Application Number:	63639908
Application Number:	17785313
Application Number:	17785690

Property Type	Number
Application Number:	18010358
Application Number:	18008831
Application Number:	17787764
Application Number:	18278119
Application Number:	18834071
Application Number:	18839813
Application Number:	17887083
Application Number:	17946558
PCT Number:	US1162560
PCT Number:	US1643897
PCT Number:	US1724794
PCT Number:	US1663975
PCT Number:	US1722165
PCT Number:	US1719887
PCT Number:	US2332247
PCT Number:	US2412142
PCT Number:	US2114858
PCT Number:	US2116982
PCT Number:	US2146201
PCT Number:	US2146274
PCT Number:	US2116980
PCT Number:	US2232226
PCT Number:	US2313832
PCT Number:	US2313846
PCT Number:	US2332249
PCT Number:	US2326668

CORRESPONDENCE DATA

Fax Number: 8032559831

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (704)417-3234
Email: nichole.hayden@nelsonmullins.com,christine.plaisted@nelsonmullins.com
Correspondent Name: Nichole Hayden
Address Line 1: Nelson Mullins Riley & Scarborough LLP
Address Line 2: 301 South College Street- 23rd Floor
Address Line 4: Charlotte, NORTH CAROLINA 28202

ATTORNEY DOCKET NUMBER:	Ultra Safe Nuclear Corp
NAME OF SUBMITTER:	CHRISTINE PLAISTED

SIGNATURE:	CHRISTINE PLAISTED
DATE SIGNED:	01/15/2025

Total Attachments: 11
source=10 - Intellectual Property Assignment Agreement (Fully Executed) (002)#page1.tiff
source=10 - Intellectual Property Assignment Agreement (Fully Executed) (002)#page2.tiff
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source=10 - Intellectual Property Assignment Agreement (Fully Executed) (002)#page11.tiff

ASSIGNMENT OF INTELLECTUAL PROPERTY

THIS ASSIGNMENT OF INTELLECTUAL PROPERTY (this "***Assignment***"), effective as of December 27, 2024, is made by and between **ULTRA SAFE NUCLEAR CORPORATION**, a Delaware corporation, **ULTRA SAFE NUCLEAR CORPORATION – TECHNOLOGIES**, a Washington Corporation (each an "***Assignor***" and collectively, the "***Assignors***"), and **STANDARD NUCLEAR, INC.**, a Delaware corporation ("***Assignee***"). Assignor and Assignee are each referred to herein individually as a "***Party***" and collectively, as the "***Parties***."

WHEREAS, Assignors, Assignee and those certain other parties thereto are parties to that certain Asset Purchase Agreement, dated November 21, 2024 (as amended, the "***Purchase Agreement***"), pursuant to which Assignee shall acquire certain assets of Assignors consisting of the Purchased Assets and Assumed Liabilities; and

WHEREAS, in accordance therewith, Assignors desire to transfer and assign to Assignee, and Assignee desires to accept the transfer and assignment of, all of the intellectual property set forth on Schedule A attached hereto (the "***Intellectual Property***").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows.

1. Definitions. Capitalized terms used and not defined herein shall have the meanings ascribed to them in the Purchase Agreement.

2. Assignment. Assignors do hereby assign to Assignee all of its legal and equitable right, title, and interest of whatever nature throughout the world in and to Assignors' Intellectual Property and all registrations and applications for registrations of any of Assignors' Intellectual Property, including the registrations identified on Schedule A attached hereto (collectively, the "***Assigned Property***"), together with the goodwill of the Business symbolized by the Assigned Property, and together with all of such Assignors' right to income, to licensing fees, and to sue and recover for past, present, and future claims or causes of action arising out of or related to any infringements, dilutions, or misappropriations of the Assigned Property, which right, title, and interest is being assigned free and clear of all encumbrances, the same to have and to hold by the Assignee as fully and entirely as the same would have been held by the Assignors had this Assignment not been made.

For all Intellectual Property that comprises a patent or patent application, the assignment includes the entire worldwide right, title, and interest in and to the same, the inventions, improvements, and discoveries disclosed therein, and any and all related patent applications and patents which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, restorations, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents; and all applications for industrial property protection, including without limitation, all applications for patents and utility models, which may hereafter be filed in any country or countries, together with the right to file such applications and the right to claim the priority rights derived from the respective patent application under the patent laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable; and all applications for industrial property protection, including, without limitation, all applications for patents and utility models which may hereafter be filed for said patent or patent application in any country or countries, together with the right to file such applications; and all forms of industrial property protection, including, without limitation, patents, utility models, and inventors' certificates which may be granted for said patent or patent application in any country or countries and all extensions, renewals, and reissues thereof.

Assignors hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States patent, and foreign patent authorities to issue any foreign patent, granted for the Intellectual Property, to Assignee, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by Assignee, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Patent Application and all related patents and applications, to Assignee, its successors, legal representatives, and assigns, whenever reasonably requested by Assignee, its successors, legal representatives, or assigns.

Each such Assignor authorizes and requests Assignee to request the United States Patent and Trademark Office ("***USPTO***") to record Assignee as Assignee or transferee of all Intellectual Property that comprises a Trademark(s) and shall, promptly upon presentation to such Assignor by Assignee, execute, or procure the execution of, such transfer documents and provide such information as required by the USPTO, and each such Assignor hereby covenants that such Assignor has full right to convey such Assignor's entire interest herein assigned, and that such Assignor has not executed, and will not execute, any agreements in conflict herewith.

3. Further Assurances. Each such Assignor hereby agrees to execute, at Assignee's expense, all documents for use in applying for and obtaining patent, trademark, and copyright registrations and other rights and protections relating to the Assigned Property and enforcing the same, as Assignee may reasonably request, together with any assignments thereof to Assignee or persons designated by it. In the event Assignee is unable, after reasonable effort, to secure such Assignor's signature on any document or documents needed to apply for or prosecute any patent, trademark, copyright, or other right or protection relating to any Assigned Property, for any reason whatsoever, each such Assignor hereby irrevocably designates and appoints Assignee and its duly authorized officers and agents as such Assignor's agent and attorney-in-fact to act for and on such Assignor's behalf to execute and file any such application or applications and to do all other lawfully permitted acts to further the prosecution of any patents, trademarks, copyrights, or similar protections thereon with the same legal force and effect as if executed by such Assignor.

4. Validity Disputes; Use. Each such Assignor agrees to assist Assignee, upon Assignee's reasonable request and at Assignee's sole expense, in any pending or threatened suits or actions by third parties challenging the validity or enforceability of any Assigned Property. Further, each such Assignor shall not directly or indirectly, challenge Assignee's ownership of or right to use any of the Assigned Property. Each such Assignor shall not directly or indirectly use, register, or attempt to register or use any domain name, trade name, trademark, or service mark that implies an association between such Assignor and Assignee or is confusingly similar to any of the Assigned Property.

5. No Third-Party Beneficiaries. Nothing in this Assignment, expressed or implied, is intended or shall be construed to confer upon or give to any person, firm, corporation, association, or other entity, other than Assignee, Assignors, and each of their respective successors and assigns, any remedy or claim under or by reason of this Assignment or any agreement, term, covenant, or condition hereof, and all of the agreements, terms, covenants, and conditions contained in this Assignment shall be for the sole and exclusive benefit of Assignee, Assignors, and each of their respective successors and assigns.

6. No Additional Representations. This Assignment is subject in all respects to the provisions of the Purchase Agreement. This Assignment shall not be deemed to defeat, limit, alter, impair, enhance, or enlarge any right, obligation, liability, claim, or remedy created by the Purchase Agreement or any ancillary agreement thereto. In the event of any conflict or inconsistency between the terms and conditions

set forth in this Assignment and the Purchase Agreement, the terms and conditions set forth in the Purchase Agreement shall control.

7. Modification. This Assignment may not be modified except by a writing executed by all the Parties hereto.

8. Assignment. The terms of this Assignment shall be binding upon, inure to the benefit of, and be enforceable by the Parties hereto and each of their respective successors and assigns.

9. Governing Law. This Assignment and the legal relations among the Parties hereto shall be governed by and construed in accordance with the laws of the State of Delaware (without giving effect to principles of conflict of laws) as to all matters.

10. Headings. The paragraph headings in this Assignment are for convenience only and such headings form no part of this Assignment and shall not affect its interpretation.

11. Counterparts. This Assignment may be executed in multiple counterparts, each of which shall be deemed an original, but all of which shall constitute the same agreement, and the execution of a counterpart of the signature page to this Agreement shall be deemed the execution of a counterpart of this Agreement. This Agreement may also be executed through the use of electronic signature, which each Party acknowledges and agrees is a lawful means of obtaining signatures in the United States. The delivery of this Agreement and the Parties' executed counterpart signature pages hereto may be made by e-mail transmission of a PDF document, and such signatures shall be treated as original signatures for all applicable purposes.

12. Filing. Each such Assignor hereby agrees that this Assignment may be recorded with the USPTO, the United States Copyright Office, and any other office deemed applicable by Assignee, and, accordingly, that Assignee will be reflected as the successor in title to the Intellectual Property and all applications and registrations therefore.

[***Signature Page Follows***]

IN WITNESS WHEREOF, this Assignment has been duly executed and delivered by the Parties as of the date first written above.

ASSIGNORS:

ULTRA SAFE NUCLEAR CORPORATION,
a Delaware corporation

By: _____
Name: Kurt Terrani
Title: Interim CEO

ULTRA SAFE NUCLEAR CORPORATION - TECHNOLOGIES,
a Washington corporation

By: Steven Cuevas
Name: Steven J. Cuevas
Title: Director

ASSIGNEE:

STANDARD NUCLEAR, INC.,
a Delaware corporation

By: _____
Name: Thomas Hendrix
Title: CEO

IN WITNESS WHEREOF, this Assignment has been duly executed and delivered by the Parties as of the date first written above.

ASSIGNORS:

ULTRA SAFE NUCLEAR CORPORATION,
a Delaware corporation

By: _____
Name: Kurt Terrani
Title: Interim CEO

ULTRA SAFE NUCLEAR CORPORATION - TECHNOLOGIES,
a Washington corporation

By: _____
Name: Steven J. Cuevas
Title: Director

ASSIGNEE:

STANDARD NUCLEAR, INC.,
a Delaware corporation

By: Signed by: Thomas Hendrix 067BDEADCE1D4D9...
Name: Thomas Hendrix
Title: CEO

SCHEDULE A

Patents and Patent Applications: the Purchased Assets shall include the following patents, patent applications, and any related patents or applications, including continuations, continuations-in-part, divisionals, reissues, reexaminations, extensions, foreign counterparts, and any rights to claim priority, including all rights associated with such patents.

Patent	Description	Number/Note
US Patent	Dispersion Ceramic Micro-Encapsulated Nuclear Fuel and Related Methods	Patent # 9,620,248
US Patent	Dispersion Ceramic Micro-Encapsulated Nuclear Fuel and Related Methods	Patent # 10,475,543
US Patent	Fully Ceramic Micro-Encapsulated Fuel for CANDUs and Other Reactors	Patent # 10,032,528
US Patent	Fully Ceramic Nuclear Fuel and Related Methods	Patent # 9,299,464
PCT Patent Application	Fully Ceramic Nuclear Fuel and Related Methods	WO/2012/075094 PCT/US2011/062560
European Patent	Fully Ceramic Nuclear Fuel and Related Methods	2647012 11813608
Russian Patent	ПОЛНОСТЬЮ КЕРАМИЧЕСКОЕ ЯДЕРНОЕ ТОПЛИВО И СООТВЕТСТВУЮЩИЕ СПОСОБЫ	2013130000 2013130000/07
Korean Patent	완전한 세라믹 핵연료 및 관련된 방법	1017938960000 1020137013776
Polish Patent	Fully Ceramic Nuclear Fuel and Related Methods	2647012 11813608
US Patent	Method for Fabrication of Fully Ceramic Micro-Encapsulated Nuclear Fuel	Patent # 10,109,378
PCT Patent Application	Method for Fabrication of Fully Ceramic Microencapsulated Nuclear Fuel	WO/2017/019620 PCT/US2016/043897
Canadian Patent	Method for Fabrication of Fully Ceramic Micro-Encapsulated Nuclear Fuel	CA Patent # 2,993,794
Spanish Patent	Método para la fabricación de combustible nuclear micro-encapsulado totalmente cerámico	2796367 16831203
Chinese Patent	Method for Fabrication of Fully Ceramic Microencapsulated Nuclear Fuel	108028080 201680043823.X
European Patent	Method for Fabrication of Fully Ceramic Microencapsulated Nuclear Fuel	3326173 16831203
Korean Patent	완전 세라믹 마이크로캡슐화된 핵연료의 제조 방법	1020180043789 1020187005090
Polish Patent	Method for Fabrication of Fully Ceramic Microencapsulated Nuclear Fuel	3326173 16831203
Korean Patent	완전 세라믹 마이크로캡슐화된 핵연료의 제조 방법	1020230148265 1020237034251
US Patent	Nuclear Fuel Particle Having a Pressure Vessel Comprising Layers of Pyrolytic Graphite and Silicon Carbide, also referred to as Enhancing Toughness in Microencapsulated Nuclear Fuel	Patent # 10,573,416
PCT Patent Application	Enhancing Toughness in Microencapsulated Nuclear Fuel	WO/2017/172948 PCT/US2017/024794
Chinese Patent	Enhancing Toughness in Microencapsulated Nuclear Fuel	109074877 201780021853.5
Canadian Patent	Enhancing Toughness in Microencapsulated Nuclear Fuel	3017974
Korean Patent	마이크로캡슐화된 핵 연료의 인성 증진	1023381640000 1020187030786

European Patent	Enhancing Toughness in Microencapsulated Nuclear Fuel	3437106 17776569
Polish Patent	Enhancing Toughness in Microencapsulated Nuclear Fuel	3437106 17776569
South African Patent	Enhancing Toughness in Microencapsulated Nuclear Fuel	ZA2018/06361 2018/06361
US Patent	Fully Ceramic Microencapsulated Fuel Fabricated with Burnable Poison as Sintering Aid	Patent # 11,101,048
PCT Patent Application	Fully Ceramic Microencapsulated Fuel Fabricated with Burnable Poison as Sintering Aid	WO/2017/171937 PCT/US2016/063975
Canadian Patent	Fully Ceramic Microencapsulated Fuel Fabricated with Burnable Poison as Sintering Aid	3017939
European Patent	Fully Ceramic Microencapsulated Fuel Fabricated with Burnable Poison as Sintering Aid	3437107 16897455
Korean Patent	소결 조제로서 가연성 독물질로 제조된 완전 세라믹 마이크로캡슐화된 연료	1020180121787 1020187030784
Chinese Patent	Fully Ceramic Microencapsulated Fuel Fabricated with Burnable Poison as Sintering Aid	108885907 201680084259.6
Spanish Patent	Combustible microencapsulado totalmente cerámico fabricado con veneno susceptible de quemarse como ayuda a la sinterización	2835778 16897455
Polish Patent	Fully Ceramic Microencapsulated Fuel Fabricated with Burnable Poison as Sintering Aid	3437107 16897455
South African Patent	Fully Ceramic Microencapsulated Fuel Fabricated with Burnable Poison as Sintering Aid	ZA2018/06360
US Patent	Passive Reactivity Control of Nuclear Thermal Propulsion Reactors	Patent # 10,643,754
PCT Patent Application	Passive Reactivity Control of Nuclear Thermal Propulsion Reactors	WO/2017/222614 PCT/US2017/022165
US Patent	Variable propellant density for passive reactivity control of nuclear thermal propulsion reactors	Patent # 11,417,437
US Patent Application	Adjusting Wait Time Between Burn Cycles or Merging Burn Cycles	Application # 17/868,302 Publication No. 2022/0375641
US Patent	Process for Rapid Processing of Silicon Carbide and Graphitic Matrix TRISO-Bearing Pebble Fuels	Patent # 10,878,971
US Patent	Process for Rapid Processing of Silicon Carbide and Graphitic Matrix TRISO-Bearing Pebble Fuels	Patent # 11,557,403
US Patent	Process for rapid processing of SiC and graphitic matrix TRISO-bearing pebble fuels	Patent # 11,984,232
PCT Patent Application	Process for rapid processing of SiC and graphitic matrix TRISO-bearing pebble fuels	WO/2017/172177 PCT/US2017/019887
Canadian Patent	Process for rapid processing of SiC and graphitic matrix TRISO-bearing pebble fuels	3017896
European Patent	Process For Rapid Processing of Pebble Fuels	3437108 17776183
Korean Patent	SiC 및 흑연 매트릭스 TRISO-포함 페블 연료의 신속한 처리를 위한 공정	1026262430000 1020187030785
US Patent	Processing Ultra High Temperature Zirconium Carbide Microencapsulated Nuclear Fuel	Patent # 11,189,383
US Patent	Processing Ultra High Temperature Zirconium Carbide Microencapsulated Nuclear Fuel	Patent # 11,728,047
US Patent	Processing Ultra High Temperature Zirconium Carbide Microencapsulated Nuclear Fuel	Patent # 12,068,084
US Patent	Method For Manufacture of Coated Uranium-Bearing Fuel Particles for Ultra-High Temperature Energy Applications	Provisional Patent Application # 63/639,908
PCT International Application	Ordered Particle Fuel	International Application No. PCT/US2023/032247, filed on Sept. 8, 2023, published as WO 2024/054601 on March 14, 2024.

PCT International Application	Additive Manufacturing of Fiber-Reinforced Composites with Refractory Matrix Materials	International Application No. PCT/US2024/12142, filed on January 19, 2024, published as WO/2024/155880 on July 25, 2024.
Canadian Patent	SKEWED-PIN (SPIN) MODERATOR BLOCKS FOR NUCLEAR REACTOR	Application # 3,165,139
Korean Patent	SKEWED-PIN (SPIN) MODERATOR BLOCKS FOR NUCLEAR REACTOR	Application # 10-2022-7029118
US Patent	SKEWED-PIN (SPIN) MODERATOR BLOCKS FOR NUCLEAR REACTOR	Application # 17/785,313 Publication # US 2023-0024338 A1
PCT International Application	SKEWED-PIN (SPIN) MODERATOR BLOCKS FOR NUCLEAR REACTOR	Application # PCT/US2021/014858 Publication # WO2021/151055
Canadian Patent	CHARGEABLE ATOMIC BATTERY AND ACTIVATION CHARGING PRODUCTION METHOD	Application # 3,165,395
Korean Patent	CHARGEABLE ATOMIC BATTERY AND ACTIVATION CHARGING PRODUCTION METHOD	Application # 10-2022-7030705
US Patent	CHARGEABLE ATOMIC BATTERY AND ACTIVATION CHARGING PRODUCTION METHOD	Application # 17/785,690 Publication # US 2023-0051201 A1
PCT International Application	CHARGEABLE ATOMIC BATTERY AND ACTIVATION CHARGING PRODUCTION METHOD	Application # PCT/US2021/016982 Publication # WO2021/159043
Canadian Patent	CONTROL DRUM CONTROLLER FOR NUCLEAR REACTOR SYSTEM	Application # 3,189,128
European Patent	CONTROL DRUM CONTROLLER FOR NUCLEAR REACTOR SYSTEM	Application # 21858921.6 Publication # 4197001
US Patent	CONTROL DRUM CONTROLLER FOR NUCLEAR REACTOR SYSTEM	Application # 18/010,358 Publication # US 2023-0230714 A1
PCT International Application	CONTROL DRUM CONTROLLER FOR NUCLEAR REACTOR SYSTEM	Application # PCT/US2021/046201 Publication # WO2022/040116
Canadian Patent	COMBINED AMMONIA-BASED MODERATOR AND PROPELLANT FOR NUCLEAR THERMAL PROPULSION STAGES	Application # 3,189,136
European Patent	COMBINED AMMONIA-BASED MODERATOR AND PROPELLANT FOR NUCLEAR THERMAL PROPULSION STAGES	Application # 21878176.3 Publication # 4197009
US Patent	COMBINED AMMONIA-BASED MODERATOR AND PROPELLANT FOR NUCLEAR THERMAL PROPULSION STAGES	Application # 18/008,831 Publication # US-2023-0211898-A1
PCT International Application	COMBINED AMMONIA-BASED MODERATOR AND PROPELLANT FOR NUCLEAR THERMAL PROPULSION STAGES	Application # PCT/US2021/046274 Publication # WO2022/076084
Canadian Patent	CHARGEABLE ATOMIC BATTERY WITH PRE-ACTIVATION ENCAPSULATION MANUFACTURING	Application # 3,165,403
Korean Patent	CHARGEABLE ATOMIC BATTERY WITH PRE-ACTIVATION ENCAPSULATION MANUFACTURING	Application # 10-2022-7030706
US Patent	CHARGEABLE ATOMIC BATTERY WITH PRE-ACTIVATION ENCAPSULATION MANUFACTURING	Application # 17/787,764
PCT International Application	CHARGEABLE ATOMIC BATTERY WITH PRE-ACTIVATION ENCAPSULATION MANUFACTURING	Application # PCT/US2021/016980 Publication # WO2021/159041
Canadian Patent	FUEL-MODERATOR INVERSION FOR SAFER NUCLEAR REACTORS	Application # 3,220,042
European Patent	FUEL-MODERATOR INVERSION FOR SAFER NUCLEAR REACTORS	Application # 22828992.2 Publication # EP4348684A1
Japanese Patent	FUEL-MODERATOR INVERSION FOR SAFER NUCLEAR REACTORS	Application # 2023-570223 Publication # 2024-521660
Korean Patent	FUEL-MODERATOR INVERSION FOR SAFER NUCLEAR REACTORS	Application # 10-2023-7045406
US Patent	FUEL-MODERATOR INVERSION FOR SAFER NUCLEAR REACTORS	Application # 18/278,119
PCT International Application	FUEL-MODERATOR INVERSION FOR SAFER NUCLEAR REACTORS	Application # PCT/US2022/032226 Publication # WO 2022/271433
US Patent	RADIATION SHIELDING FOR RADIOISOTOPE BATTERY-POWERED VEHICLE	Application # 18/834,071
PCT International Application	RADIATION SHIELDING FOR RADIOISOTOPE BATTERY-POWERED VEHICLE	Application # PCT/US2023/013832

		Publication # WO 2024/072479
US Patent	RADIOISOTOPE POWER SYSTEM FOR VEHICLE	Application # 18/839,813
PCT International Application	RADIOISOTOPE POWER SYSTEM FOR VEHICLE	Application # PCT/US2023/013846 Publication # WO2023/164149
PCT International Application	SPIRAL NTP FUEL FOR POWER FLATTENING	Application # PCT/US2023/032249 Publication # WO 2024/118125
PCT International Application	HIGH-POROSITY CERAMIC BURNABLE ABSORBERS	Application # PCT/US2023/026668
US Patent	FULLY CERAMIC ENCAPSULATED RADIOACTIVE HEAT SOURCE	Application # 17/887,083 Publication # US 2023-0023052 A1
US Patent	FULLY CERAMIC ENCAPSULATED RADIOACTIVE HEAT SOURCE	Application # 17/946,558 Publication # US 2023-0197306 A1

Registered Trademarks:

Mark	Goods/ Services	Filing Date	Serial Number	Registration Date	Registration Number	Owner	Country
3DCARBIDE	040	May 25, 2023	98013560	April 02, 2024	7349219	Ultra Safe Nuclear Corporation	US
3DCARBIDE	1, 40	22-11-2023	1770531	22-11-2023	1770531	Ultra Safe Nuclear Corporation	DE, FI, BE, PT, BG, JP, DK, LT, LU, HR, LV, FR, HU, SE, BX, SI, SK, IE, CA, EE, KR, MT, EM, GR, IT, ES, AT, CY, CZ, PL, RO, NL
3DCARBIDE	1, 40	22-11-2023	2303716-00	22-11-2023	1770531	Ultra Safe Nuclear Corporation	CA
FCM	001	August 11, 2017	87565787	June 15, 2021	6389549	Ultra Safe Nuclear Corporation	US
FCM	1	09-02-2018	29228132	07-01-2019	29228132	超安全核能公司 ULTRA SAFE NUCLEAR CORPORATION	CN
FCM	1	19-12-2017	1873909-00	02-09-2022	TMA1140848	Ultra Safe Nuclear Corporation	CA
FCM	1	27-12-2017	017637042	30-04-2018	017637042	Ultra Safe Nuclear Corporation	DE, BE, FI, PT, BG, DK, LT, LU, HR, LV, FR, HU, SE, SI, BX, SK, IE, EE, MT, EM, GR, IT, ES, AT, CY, CZ, PL, RO, NL
FCM	1	27-12-2017	UK00917637042	30-04-2018	UK00917637042	Ultra Safe Nuclear Corporation	GB
FCM	1	12/20/2017	2017/37425	N/A	N/A	Ultra Safe Nuclear Corporation	ZA
FCM	01	2017.12.21	4020170164342	2018.09.10	4013957150000	Ultra Safe Nuclear Corporation	KR
EMBER	001, 010	Mar. 15, 2022	97313131	pending	pending	Ultra Safe Nuclear Corporation	US
MAKE THE MOST OF THE DARK	011	Mar. 15, 2022	97313177	Oct. 24, 2023	7203225	Ultra Safe Nuclear Corporation	US
EMBERPOWER	007, 009	Mar. 15, 2022	97313140	pending	pending	Ultra Safe Nuclear Corporation	US
EMBERCORE	011	Mar. 15, 2022	97313158	Oct. 24, 2023	7203224	Ultra Safe Nuclear Corporation	US
EMBER	1	14-09-2022	1713420	14-09-2022	1713420	Ultra Safe Nuclear Corporation	DE, FI, BE, PT, BG, JP, DK, LT, LU, HR, LV, FR, HU, SE, BX, SI, SK, IE, CA, EE, IN, KR, MT, EM, CN, GR, IT, ES, AT, CY, CZ, PL, RO, NL
EMBERCORE	11	14-09-2022	1689526	14-09-2022	1689526	Ultra Safe Nuclear Corporation	DE, FI, BE, PT, BG, JP, DK, LT, LU, HR, LV, FR, HU, SE, BX, SI, SK, IE, CA, EE, IN, KR, MT, EM, CN, GR, IT, ES, AT, CY, CZ, PL, RO, NL
EMBERPOWER	7, 9	14-09-2022	1690071	14-09-2022	1690071	Ultra Safe Nuclear Corporation	DE, FI, BE, PT, BG, JP, DK, LT, LU, HR, LV, FR, HU, SE, BX, SI, SK, IE, CA, EE, IN, KR, MT, EM, CN, GR, IT, ES, AT, CY, CZ, PL, RO, NL
EMBERSOURCE	9, 10	14-09-2022	1730600	14-09-2022	1730600	Ultra Safe Nuclear Corporation	DE, FI, BE, PT, BG, JP, DK, LT, LU, HR, LV, FR, HU, SE, BX, SI, SK, IE, CA, EE, IN, KR, MT, EM, CN, GR, IT, ES, AT, CY, CZ, PL, RO, NL
MAKE THE MOST OF THE DARK	11	14-09-2022	1690070	14-09-2022	1690070	Ultra Safe Nuclear Corporation	DE, FI, BE, PT, BG, JP, DK, LT, LU, HR, LV, FR, HU, SE, BX, SI, SK, IE, CA, EE, IN, KR, MT, EM, CN, GR, IT, ES, AT, CY, CZ, PL, RO, NL
EMBERCORE	11	2022.09.14	5675390	n/a	1689526	Ultra Safe Nuclear Corporation	IN
MAKE THE MOST OF THE DARK	11	2022.09.14	5681995	n/a	1690070	Ultra Safe Nuclear Corporation	IN

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Trade Secrets:

Trade Secret	P&IDs (Piping and Instrumentation Diagrams)	Detailed designs of proprietary equipment USNC has designed to fabricate fuel
Trade Secret	Hazards and Operability Studies	Detailed assessments of safety hazards and mitigation strategies for each component and stop of operations
Trade Secret	Procedures	Detailed procedures on how to operate equipment and process
Trade Secret	Work Instructions: Same as above	Detailed procedures on how to operate equipment and process
Trade Secret	Various detailed designs, CAD files, drawings; detailed documentation of various in-house designed items such a graphite cones for TRISO coating)	Detailed documentation of various in-house designed items, for example, graphite cones for TRISO coating
Trade Secret	Coated Particle Fuel (TRISO and other variants)	TRISO fuel architecture and the manufacturing process for TRISO fuel particles; includes development of other advanced coated particle variants, including larger kernels, altered kernel compositions, and altered coating layers.
Trade Secret	Additive Manufacturing (AM) and CVI process (AM/CVI) SiC and FCM Fuel	Manufacturing methods; bonding methods.
Trade Secret	High Temperature Carbide Deposition (ZrC and other carbides)	Manufacturing methods; infiltration and deposition of ZrC
Trade Secret	Ordered particle fuel element production	Manufacturing methods
Trade Secret	Production of metal hydrides	Manufacturing methods; metal hydrides of ZrH and YH using the bulk hydriding methods
Trade Secret	Encapsulation of metal hydrides in SiC	Manufacturing methods

Proprietary Software:

Software Name	Description
Fuel manufacturing module I&C software	Custom developed software and associated hardware for various fuel manufacturing processes. *Developed in-house by USNC staff.*
TP3	TRISO particle fuel performance and radionuclide transport and release. Underpins MMR regulatory approach to offsite dose calculations. *Developed in-house by USNC staff.*
Source Term Transport and Release	Proprietary Python-based tool to model source term transport, holdup, cleanup, and release for gas-cooled reactor systems. This tool uses the output from TP3 and combines this source of activity with activation sources throughout the system which further underpins USNC's regulatory approach to source term release. *Developed in-house by USNC staff.*
Fuel labeling and recognition	Collection of tools to uniquely label USNC's FCM fuel for MMR + machine-learning tools to read the labels through various states of the FCM manufacturing process. *Developed in-house by USNC staff.*

Websites:

Name	Registrar	Registrant	Expiration Date
usnc.com	GoDaddy Online Services Cayman Islands Ltd.	USNC	2027-03-12
3dcarbide.com	Squarespace Domains II LLC	USNC	2027-05-17

Social Media Accounts:

Platform	*Link*
X	https://x.com/UltraSafeNuke
YouTube	https://www.youtube.com/channel/UCqgfxstJUW4LBOSlJmeN8xw
LinkedIn	https://www.linkedin.com/company/usnc/