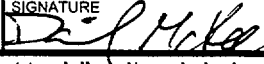



| | | | | | |
|---|-----------------------------|--|---|---|---|
| NRC FORM 241 (7-1999) | | U.S. NUCLEAR REGULATORY COMMISSION | | APPROVED BY OMB: NO. 3150-0013 Estimated burden per response to comply with this mandatory collection request: 15 minutes. This notification is required so that NRC may schedule inspection of the activities to ensure that they are conducted in accordance with requirements for protection of the public health and safety. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (3150-0013), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection. | |
| REPORT OF PROPOSED ACTIVITIES IN NON-AGREEMENT STATES, AREAS OF EXCLUSIVE FEDERAL JURISDICTION, OR OFFSHORE WATERS <i>(Please read the instructions before completing this form)</i> | | | | | |
| 1. NAME OF LICENSEE (Person or firm proposing to conduct the activities described below) Heuft USA | | | 2. TYPE OF REPORT <input checked="" type="checkbox"/> INITIAL <input type="checkbox"/> REVISION <input type="checkbox"/> CLARIFICATION | | |
| 3. ADDRESS OF LICENSEE (Mailing address or other location where licensee may be located) 5157 Thatcher Rd Downers Grove, IL 60515-4029 | | | 4. LICENSEE CONTACT AND TITLE Jack Pluister Vice President Engineering, RSO | | |
| | | | 5. TELEPHONE NUMBER (Include Area Code) 630-968-9011 | | 6. FACSIMILE NUMBER (Include Area Code) 630-968-8767 |
| 7. ACTIVITIES TO BE CONDUCTED UNDER THE GENERAL LICENSE GIVEN IN 10 CFR 150.20 <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> WELL LOGGING <input type="checkbox"/> LEAK TESTING AND/OR CALIBRATIONS <input type="checkbox"/> TELETHERAPY/IRRADIATOR SERVICE <input type="checkbox"/> PORTABLE GAUGES <input checked="" type="checkbox"/> OTHER (Specify) <u>Decommissioning and removal of a radioactive source.</u> <input type="checkbox"/> RADIOGRAPHY <input type="checkbox"/> REGISTERED AS USER OF PACKAGING (CERTIFICATES OF COMPLIANCE NUMBERS) </div> </div> | | | | | |
| 8. CLIENT NAME, ADDRESS, CITY/COUNTY, STATE, ZIP CODE James Soltesz Pepsi Americas 9300 Calumet Ave Munster, IN 46321 | | | 9. ACTUAL PHYSICAL ADDRESS OF WORK LOCATION (Street and Number or other location. Give as complete an address or directions as possible.) Pepsi Americas 9300 Calumet Ave Munster, IN 46321 | | |
| | | | 10. CLIENT TELEPHONE NUMBER (Include Area Code) (219) 836-6330 | | 11. WORK LOCATION TELEPHONE NUMBER (Include Area Code) (219) 836-6330 |
| 12. DATES SCHEDULED | | 13. NUMBER OF WORK DAYS | 14. ADD | 15. DELETE | 16. LOCATION REFERENCE NUMBER |
| FROM March 20, 2002 | TO March 22, 2002 | 13 | | | NUMBER TO BE ASSIGNED BY NRC 000508 |
| LIST ADDITIONAL WORK SITES ON SEPARATE SHEET(S) TO INCLUDE ALL INFORMATION CONTAINED IN ITEMS 9-16 ABOVE. | | | | | |
| 17. LIST RADIOACTIVE MATERIAL, WHICH WILL BE POSSESSED, USED, INSTALLED, SERVICED, OR TESTED (Include description of type and quantity of radioactive material, sealed sources, or devices to be used.) Am-241 100uCi (3.7Gbq) sealed source Amersham Model AMC.P1 Serial # 1140814295 | | | | | |
| 18. AGREEMENT STATE SPECIFIC LICENSE WHICH AUTHORIZES THE UNDERSIGNED TO CONDUCT ACTIVITIES WHICH ARE THE SAME, EXCEPT FOR LOCATION OF USE, AS SPECIFIED IN ITEM 9. ABOVE. (Four copies of the specific license must accompany the initial NRC Form 241.) | | | LICENSE NUMBER IL-01354-22 | STATE IL | EXPIRATION DATE January 31, 2004 |
| 19. CERTIFICATION (MUST BE COMPLETED BY APPLICANT) | | | | | |
| I, THE UNDERSIGNED, HEREBY CERTIFY THAT: <ol style="list-style-type: none"> All information in this report is true and complete. I have read and understand the provision of the general license 10 CFR 150.20 reprinted on the instructions of this form; and I understand that I am required to comply with these provisions as to all byproduct, source, or special nuclear material which I possess and use in non-Agreement States or offshore waters under the general license for which this report is filed with the U.S. Nuclear Regulatory Commission. I understand that activities, including storage, conducted in non-Agreement States under general license 10 CFR 150.20 are limited to a total of 180 days in calendar year. With the exception of work conducted in off-shore waters, which is authorized for an unlimited period of time in the calendar year. I understand that I may be inspected by NRC at the above listed work site locations and at the Licensee home office address for activities performed in non-Agreement States or offshore waters. I understand that conduct of any activities not described above, including conduct of activities on dates or locations different from those described above or without NRC authorization, may subject me to enforcement action, including civil or criminal penalties. | | | | | |
| CERTIFYING OFFICER - RSO or Management Representative (Name and Title) Daniel McKee - Engineering Manager | | | SIGNATURE  | | DATE 3/14/02 |
| WARNING: False statements in this certificate may be subject to civil and/or criminal penalties. NRC regulations require that submissions to the NRC be complete and accurate in all material respects. 18 U.S.C. Section 1001 makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction. | | | | | |
| FOR NRC USE ONLY | | REVIEWING OFFICIAL (Typed/Printed Name and Title) Doris E. Gonzalez/NMPA | | SIGNATURE  | DATE 03/18/02 |
| | | | | TOTAL USAGE -- DAYS TO DATE 3 | |

STATE OF ILLINOIS
DEPARTMENT OF NUCLEAR SAFETY

RADIOACTIVE MATERIAL LICENSE

DIVISION OF RADIOACTIVE MATERIALS
1035 OUTER PARK DRIVE
SPRINGFIELD, ILLINOIS 62704

Pursuant to the Illinois Radiation Protection Act and the rules and regulations in 32 Illinois Administrative Code promulgated thereunder, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, own, possess and transfer radioactive material(s) listed herein; and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Illinois Department of Nuclear Safety now or hereafter in effect and to any conditions specified in the license. This document confirms that the licensee has registered the sources of radiation listed below in accordance with Section 2 of the Radiation Installations Act.

| | | |
|-----------------|-----------------------|------------------------|
| <u>LICENSEE</u> | <u>LICENSE NUMBER</u> | <u>EXPIRATION DATE</u> |
| Heuft USA, Inc. | IL-01354-22 | January 31, 2004 |

5157 Thatcher Road
Downers Grove, IL 60515-4029

AMENDMENT NUMBER
10

Attention: Jack W. Pluister
Radiation Safety Officer

In accordance with letters dated July 6, 2001 and August 23, 2001, License Number IL-01354-22 is amended in its entirety. Previous amendments are void.

| ITEM | RADIONUCLIDE | CHEMICAL and/or PHYSICAL FORM | MAXIMUM ACTIVITY* PER SOURCE | MAXIMUM POSSESSION LIMIT |
|------|--------------------------------|---|--|-----------------------------|
| A. | Am-241 | Sealed Source - Amersham Model AMC.16 | 120 mCi | Any |
| B. | Am-241 | Sealed Source - Amersham Model AMC.P1 (Formerly AMC.25) | 60 mCi | Any |
| C. | Am-241 | Sealed Source - Amersham Model AMC.16 | 100 mCi | Any |
| D. | Am-241 | Sealed Source - Amersham Model AMC.P1 (Formerly AMC.25) | 100 mCi | Any |
| E. | Any radioactive material | Sealed Sources which have been evaluated and approved by the U.S. NRC, an Agreement State or Licensing State | As restricted in the sealed source evaluation sheet contained in the U.S. NRC Registry of Radioactive Sealed Source and Devices | Any |

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

APPROVED BY:



Charles G. Vinson, Head of Materials Licensing

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| <u>ITEM</u> | <u>RADIONUCLIDE</u> | <u>CHEMICAL and/or PHYSICAL FORM</u> | <u>MAXIMUM ACTIVITY* PER SOURCE</u> | <u>MAXIMUM POSSESSION LIMIT</u> |
|-------------|--------------------------------|--------------------------------------|---|-------------------------------------|
| F. | Any radioactive material | Leak Test Sample | | Any |

AUTHORIZED USE:

- A. and B. For use in Heuft 45US and 100US fill level detector bridges for the following purposes:
1. Instruction and training;
 2. Field testing;
 3. Demonstration;
 4. Installation, initial radiation survey, relocation, removal from service, maintenance and repair of devices; and
 5. The licensee is authorized to distribute devices to persons generally licensed pursuant to Section 330.220(d) of 32 Ill. Adm. Code or equivalent NRC or other Agreement State regulations.
- C. and D. For use in Heuft Model Maxi-100 gamma fill level gauges for the following purposes:
1. Instruction and training;
 2. Field testing;
 3. Demonstration;
 4. Installation, initial radiation survey, relocation, removal from service, maintenance and repair of devices; and
 5. The licensee is authorized to distribute devices to persons generally licensed pursuant to Section 330.220(d) of 32 Ill. Adm. Code or equivalent NRC or other Agreement State regulations.
- E. For possession incident to the relocation, shutter testing, testing of safety devices, and radiation surveys of fixed gauges that have been evaluated and approved by the USNRC, an Agreement State or a Licensing State for possession and use by specific or general licensees.
- F. For possession incident to the collection, but not analysis, of tests for leakage and/or contamination on customer sources and devices at temporary job sites.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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CONDITIONS

1. A. Radioactive material listed in License Schedule Items A. through E. shall be used at the licensee's facilities located at 5157 Thatcher Road, Downers Grove, Illinois and at temporary job sites of the licensee in areas not under exclusive Federal jurisdiction throughout the State of Illinois in accordance with statements, representations and procedures listed in other conditions of this license.
- B. Radioactive material listed in License Schedule Item F. shall be used only at temporary job sites of the licensee in areas not under exclusive Federal jurisdiction throughout the State of Illinois in accordance with statements, representations and procedures listed in other conditions of this license.
2. Radioactive material shall be used by, or under the supervision and in the physical presence of, the Radiation Safety Officer or individuals who have successfully completed the in-house training course as described in application dated December 18, 1998 and letter, with attachments, dated April 14, 2000. The licensee shall maintain training records of all designated users.
3. The Radiation Safety Officer for this license is Jack W. Pluister.
4. A. Each sealed source possessed under this license shall be tested for leakage and/or contamination as specified in 32 Ill. Adm. Code 340.410. Tests for leakage and/or contamination shall be performed by persons specifically licensed to provide such services.
- B. This license does not authorize analysis of leak test samples. However, the licensee is authorized to collect leak test samples for analysis by persons specifically authorized by the Department, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.
- C. The records of tests for leakage and/or contamination shall contain the manufacturer, model and serial number, if assigned, of each source tested, the identity of each source radionuclide, the results for each test sample expressed in Bq or mCi, the date the sample was collected, the date the sample was analyzed, the identity of the individual who collected the sample(s) and the identity of the individual who analyzed the sample(s).
5. A. Installation, initial radiation monitoring, relocation, removal from service, maintenance and repair of devices containing radioactive material shall be performed by, or under the supervision of, the licensee or performed by other persons specifically authorized by the Department, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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(Condition 5. continued)

- B. Installation, replacement and disposal of sealed sources containing radioactive material used in the devices, shall be performed only by the manufacturer or by other persons specifically authorized by the Department, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.
6. The licensee is authorized to demonstrate, install, relocate, maintain and test gauging devices manufactured by Heuft Systemtechnik GmbH under the provision of 32 Ill. Adm. Code 330.280(d), for distribution to persons generally licensed pursuant to 32 Ill. Adm. Code 330.220(d), or equivalent provisions of the regulations of an Agreement State, Licensing State, or the U.S. Nuclear Regulatory Commission.
7. A. The source holder shall be locked in the "off" or closed position:
- (1) During any manipulation of a density or level device, including the source holder or the detector, that involves physical movement of the device and/or separation from equipment such as a pipe or vessel, including installation, relocation, or storage; and
 - (2) When individuals are working on or adjacent to a density or level device during periods of shutdown; and
 - (3) Whenever an individual enters a vessel in which such a device is located; and
 - (4) Whenever a vessel with such a device is empty and an individual is working around the exterior of the vessel.
- B. Records of each installation or relocation shall be maintained which provide certification that the source holder has been locked in the "off" or closed position, a description of each location and the dates of the installation and removal.
- C. Sealed sources containing radioactive material shall not be opened or removed from their respective source holders by the licensee.
8. A. The source holder shall be locked in the "off" or closed position when the device is not in use.
- B. Sealed sources shall not be opened or removed from their source holders by the licensee.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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9. When performing tests at temporary job sites, the authorized user shall not leave the device unattended. Upon completion of tests, the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss, or theft.
10. At any time the licensee is engaged in making measurements by authority of this license at a temporary job site, the licensee shall have a current copy of each of the following documents available at the temporary job site for inspection by the Department:
 - A. The license, including all active amendments;
 - B. The manufacturer's instruction manual for the sealed sources and devices at the temporary job site;
 - C. The licensee's emergency procedures; and
 - D. The results of the latest test for leakage and/or contamination performed on the sealed source.
11. The licensee shall conduct a physical inventory at intervals not to exceed six months to account for each sealed source received and possessed under the license and shall maintain a record of such inventories. The inventory records shall include the radionuclide, activity, activity assay date, manufacturer, model and serial number, the location of the sealed source, date of the inventory and the identity of the individual(s) performing the inventory. Records of inventories shall be maintained for five years from the date of each inventory.
12. The licensee shall instruct all users that any maintenance or repair on the devices involving the removal of the source holders shall be performed only by the device manufacturer or by other persons specifically authorized by the Department, an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to perform such services.
13. No generally licensed device shall be installed by the licensee in such a manner or in such location that any person could receive more than 1 mSv (0.1 rem) in a year under ordinary circumstances of use.
14. Prior to distribution of devices and after installation of each generally licensed device, the licensee shall conduct radiation monitoring to ensure that radiation levels do not exceed those specified in the license authorizing the manufacture or distribution of the installed device. Records of the monitoring conducted prior to distribution shall be maintained by the manufacturer/distributor. The licensee shall furnish the customer a copy of a radiation monitoring report showing results of monitoring conducted at the time of installation.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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15. The licensee shall test each device installed under this license for radioactive material leakage or contamination and for proper operation of the "on/off" mechanism and indicator, if any, at the time of installation of the device.
16. The licensee shall furnish to each general licensee to whom it transfers a generally licensed device a copy of 32 Ill. Adm. Code 330.220(b), 330.310, 330.400, 330.500, 340.1210 and 340.1220.
17. The licensee shall:
 - A. Furnish a copy of the general license contained in 32 Ill. Adm. Code 330.220(b) to each person to whom he directly or through an intermediate person transfers radioactive material in a device for use pursuant to the general license contained in 32 Ill. Adm. Code 330.220(b).
 - B. Furnish a copy of the general license contained in an Agreement State's or a Licensing State's regulation equivalent to 32 Ill. Adm. Code 330.220(b) or alternatively, furnish a copy of the general license contained in 32 Ill. Adm. Code 330.220(b) to each person to whom he directly or through an intermediate person transfers radioactive material in a device for use pursuant to the general license of the Agreement State or Licensing State. If a copy of the general license in 32 Ill. Adm. Code 330.220(b) is furnished to such a person, it shall be accompanied by a note explaining that the use of the device is regulated by the Agreement State or Licensing State under requirements substantially the same as those in 32 Ill. Adm. Code 330.220(b).
 - C. Copies of 32 Ill. Adm. Code 330.220(b) which are distributed shall be prefaced by words substantially as follows: "Excerpts from the Illinois Department of Nuclear Safety's Regulations for Radiation Protection."
18. A. Each device distributed under this license shall bear a durable, clearly visible and legible label or labels containing the statements:
 - (1) "Receipt, possession, use and transfer of this device are subject to a general license or equivalent and regulations of an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission."
 - (2) "Abandonment or disposal is prohibited unless transferred to a person specifically licensed by an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission to possess such material."
 - (3) "Operation is prohibited if there is indication of failure or damage to shielding, source containment, or on/off mechanism."

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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(Condition 18.A. continued)

- (4) "Only persons specifically licensed by an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission may install, dismantle, relocate, repair, or test this device."
- (5) "Device shall be tested for radioactive leakage and proper functioning of on/off mechanism and indicator, if any, at installation, at source replacement, and thereafter at intervals not to exceed 36 months."
- (6) "Loss, theft, or transfer of this device to another licensee, and failure or damage to shielding, source containment, or on/off mechanism must be reported to an Agreement State, a Licensing State, or the U.S. Nuclear Regulatory Commission."

B. Each device distributed under this license shall bear a durable, clearly visible and legible label or labels containing the device model and serial number, the radiation symbol in colors magenta, purple, or black on a yellow background, the words, "CAUTION - RADIOACTIVE MATERIAL" or "DANGER RADIOACTIVE MATERIAL", the radionuclide, activity, activity assay date of each sealed source contained in the device and the name of the distributor of the device.

C. Each label required by this condition shall bear the statement "Removal of this label is prohibited."

19. A. The licensee shall only distribute those sealed sources and/or devices for which a Sealed Source and Device Registry (SS&D) Evaluation Sheet has been issued by the Department, the U.S. Nuclear Regulatory Commission, an Agreement State, or a Licensing State. Sealed sources and/or devices must be manufactured and/or distributed in accordance with all statements and representations, including the description of the quality assurance program that provided the basis for issuance of the SS&D Evaluation Sheet. Prior to distribution, any changes in the design, production process, specifications of a product, sealed source or device shall be approved by the Department.

B. The licensee shall maintain an active and valid SS&D Evaluation Sheet for each product, sealed source or device which it distributes. The licensee may repair, maintain and service products, sealed sources or devices previously distributed which are part of an inactive SS&D evaluation issued to the licensee. However, the licensee may not continue to manufacture or distribute such products, sealed sources or devices.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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(Condition 19. continued)

C. These requirements shall not apply to the following:

- 1) Calibration and references sources not exceeding:
 - a. For beta/gamma emitting material, 3.7 MBq (100 uCi) or ten times the quantity specified in 32 Ill. Adm. Code 330. Appendix B, whichever is greater; or
 - b. For alpha emitting materials, 370 kBq (10 mCi).
- 2) Sealed sources and devices distributed to specific licensees of broad scope.
- 3) Sealed sources and devices distributed to licensees authorized for "research and development" as defined in 32 Ill. Adm. Code 310.20 provided the licensee is authorized for the radionuclide and quantity in an unsealed or unshielded form.

D. Sealed sources and devices as described in C(2) and (3) above shall not be subsequently transferred to other licensees, except to licensed waste brokers or licensed disposal facilities.

20. The licensee shall notify the Department in writing within 24 hours of receipt of information regarding any defect, deviation or operation affecting the integrity of a sealed source or device such that a substantial safety hazard exists or could exist. The written report shall include: the name of the individual making the report; identification of the facility where the problem occurred; identification of the defect, deviation or operation (including the make and model of the source and/or device; activity and activity assay date of the source); date of the event; date of initial notification; identification of other potentially affected facilities; and a description of corrective actions.
21. In addition to the possession limits stated in License Schedule Items A. through E., the licensee shall further restrict the possession of licensed material to quantities not to exceed the applicable limits referenced in Appendix A to 32 Ill. Adm. Code 326. For combinations of nuclides, the licensee must maintain a record for Department inspection demonstrating for all possessed nuclides that the sum of the ratios of the quantity authorized and the limit established in Appendix A is not greater than one.

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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22. Except as specifically provided otherwise by the license, the licensee shall possess and use radioactive material described in all schedules of this license in accordance with statements, representations and procedures contained in, referenced in, or enclosed with the documents listed below. The regulations contained in 32 Ill. Adm. Code: Chapter II, Subchapters b and d shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations. The most recent statements, representations and procedures listed below shall govern if they conflict with previously submitted documents.

- A. Application dated December 18, 1998.
- B. Letters, with attachments, dated March 12, 1999 and April 14, 2000.
- C. Quality Assurance Manual dated December 27, 1994.
- D. Letters dated December 13, 2000, March 12, 2001, July 6, 2001 and August 23, 2001.

CGV:DMP:kig

* μ Ci-microcurie; mCi-millicurie; Ci-Curie; MBq-Megabecquerel; GBq-Gigabecquerel; TBq-Terabecquerel; g-gram; μ g-microgram; kg-kilogram

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