

U. S. ATOMIC ENERGY COMMISSION
BYPRODUCT MATERIAL LICENSE

Page 1 of 1 Pages

Supplementary Sheet

License Number 34-5338-1
(764)

Amendment No. 12

The Harshaw Chemical Company
1943 East 97th Street
Cleveland 6, Ohio

Attention: W. W. Mangum
G. Corvin
Lawrence B. Davis
Jay M. Monahan

In accordance with application dated March 19, 1964, License No. 34-5338-1 is amended as follows:

Condition 12. is amended to read as follows:

12. Byproduct material shall be used by, or under the supervision of, W. W. Mangum, G. Corvin, Lawrence B. Davis, or Jay M. Monahan.

B/58

DUPLICATED
FOR DIV. OF COMPLIANCE

For the U. S. Atomic Energy Commission

Original Signed by
Robert E. Brinkman

Date APR 22 1964

by Isotopes Branch
Division of Material Licensing
Division of Licensing and Regulation

1 BWC/mt

9702260434 970218
PDR FOIA
BABCOCK96-529 PDR

RES 4/21/64

no del Mar 19, 1964

DATE RECEIVED MAR 23 1964	EXPIRATION DATE	ISSUE DATE	REVIEWER <i>Give</i>
CONTROL NO. 58466	REFERENCE NO.	LICENSE NO. 34-6558-1	AMENDMENT NO. 12
ISOTOPE	FORM	POSSESSION LIMIT	
A.	A.	A.	
B.	B.	B.	
C.	C.	C.	
D.	D.	D.	
E.	E.	E.	
F.	F.	F.	
G.	G.	G.	
H.	H.	H.	

AUTHORIZED USE

REMARKS: letters, Phone calls, Visits, Exemptions, Etc. (Use reverse side if necessary)

Card 12: delete C.T. Schmidt

MAIL TO:	DATE MAILED APR 22 1964	REVIEWER <i>RGB</i>	DATE <i>1/8/64</i>
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EXPERT SYSTEM LICENSE EVALUATION
EVALUATION REPORT FOR LICENSE 34-06558-01

Licensee: HARSHAW CHEMICAL COMPANY

Site of operation: 1945 EAST 97TH STREET, CLEVELAND, O

INFORMATION ON EXACT AMOUNTS OF MATL WAS NOT NEEDED TO EVALUATE

1. License is nonsuspect because it was superceded by another license

THIS LICENSE WAS ELIMINATED FROM CONSIDERATION

The reason for elimination was: SUPERCEDED BY NEW LICENSE

EXPERT SYSTEM EVALUATION WAS BASED ON THE
INVENTORY RECORD IN JOB 0319, BOX 25

Docket

Licensee: HARSHAW CHEMICAL COMPANY

Address: CLEVELAND, OH

Zip:

This license was listed as SUPERCEDED BY ANOTHER LICENSE

Contents of the new license field 34-06558-05

State of operation: OH

Site used: 1945 EAST 97TH STREET, CLEVELAND, O

Disposition information present: NO DISPOSITION INFORMATION GIVEN

Remarks: FRONT FOLDER: RENEWED AS 34-6558-5

JOB NUMBER: 0319 BOX NUMBER: 25

Date of last evaluation/revision: 10/13/92

Reviewer: SSC

B/S9

100

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1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

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79 ~~solid nouns~~ plural

88. 50, me [150, me]

1. A-E L 4N to be made into 100% of
cum. all 42.5% of
100% of

H-K 7 m 2 K 6 m to 10 m Study of
molecular particle detectors

A 2140

B/60

no 50
File
9-6-56 (CRB)

Visitor: Mr. Temple Love, ORNL and Mr. Elmer C. Steward, Harshaw Chemical Co., to discuss filing of application for license for Harshaw for some small sources of Cs 137, Co 60 and other gamma emitting radioisotopes used in checking experimental scintillation crystals which Harshaw manufactures under contract with ORNL. Explained our licensing procedures and requirements in detail and told Mr. Steward that we would need information on the basic training or radiation experience of the individual who would be in charge of the work along with the facilities and instrumentation available. Reviewed each item of the application with them during the visit.

They explained that sources would be fabricated at ORNL since the laboratory wanted crystals tested against sources whose characteristics are known. At the present time, they foresee utilizing small sources encapsulated in capsules routinely furnished by ORNL. ORNL would be the supplier and do all the encapsulation work. Mr. Steward will submit their completed application within the next week or so.

B/H

RETIREMENT RECORD

DATE: 8-21-57

FILE IN:
LICENSE NO: _____

LICENSEE: Harsco Chemical Co.

INSTITUTION: _____

ADDRESS: _____

CITY: Cleveland

STATE: Ohio

AUTHORIZATION FOLDERS RETIRED:

23412

23413

23411

B162

Form FC-842 (Revised)
(1-12-56)U.S. DEPARTMENT OF COMMERCE
BUREAU OF FOREIGN COMMERCE**SINGLE TRANSACTION STATEMENT
BY CONSIGNEE AND PURCHASER**

1. Ultimate consignee name and address

Name Harshaw-Coiffe S.A.Street boite postale 208
and number 80, rue de la VialoubeCity Limoges (Haute-Vienne)Country France

Reference (if desired) _____

This statement must be presented within 90 days from the date appearing in Item 9 or Item 10, whichever is later.

INSTRUCTIONS

This form must be submitted by the importer (ultimate consignee shown in Item 1) and by the overseas buyer or purchaser, to the U.S. exporter or seller with whom the order for the commodities described in Item 3 has been placed. This completed statement will be submitted in support of an export license application to the U.S. Department of Commerce. All items on this form must be completed. Where the information required is unknown or the item does not

apply, write in the appropriate words "UNKNOWN" or "NOT APPLICABLE." The signatures required in Items 9 and 10 must be those of responsible officials who are authorized to bind the firms of the ultimate consignee and purchaser to the commitments in this statement. If more space is needed, attach an additional copy of this form or sheet of paper signed as in Items 9 and 10.

2. Request

We request that this statement be considered a part of the application for export license filed by The Harshaw Chemical Company, Cleveland, Ohio

U.S. exporter or U.S. person with whom we have placed our order (order party)

for export to us of the commodities described in Item 3.

3. Commodities

We have placed an order with the person named in Item 2 for the following commodities in the quantity and value indicated below:

| Quantity | Commodity description | Value |
|----------|--|----------|
| 200# | Uranium Oxide "Black" Technical-Depleted | \$660.00 |

4. Nature of business (Complete the following sentences using the appropriate term.) (For example: Broker, distributor, fabricator, manufacturer, wholesaler, retailer, etc.)

a. The nature of our usual business is manufacture of ceramic colors

b. (If the commodities are for resale) The nature of our customer's usual business is _____

5. Disposition of commodities (Check and complete the appropriate box)

We certify that the commodity or commodities listed in Item 3

a. ☐ will not be sold for use outside the country named in Item 1.

b. ☐ may be reexported in the form received to _____
Name of country or countries

Nothing shown on this form is to be construed as an authorization by the U.S. Department of Commerce to reexport the commodities listed in Item 3 prior to written authorization from the U.S. Department of Commerce.

(Reproduction of this form is permissible; providing that content, format, size and color of paper are the same.)

Please continue form and sign certification on reverse side

Comm-DC 37372

B/63

6. Specific end use (Check and state all boxes. If unknown, enter the "UNKNOWN.")

a. We will use the commodities listed in Item 3 for:

(1) ☐ Resale in the form received.

(2) ☐ Production or manufacture of ceramic stains

Name of final products

in France
Name of country or countries

and distribution in France and United States
Name of country or countries

b. Our customers will use the commodities for:

(1) ☐ Resale in the form received from us.

(2) ☐ Production or manufacture of _____

Name of final products

in _____
Name of country or countries

and distribution in _____
Name of country or countries

c. Other end use by us or by our customers _____

7. Additional information (Any other material facts which will be of value in considering applications for licenses covered by this statement)

none

8. Assistance in preparing statement (Names of persons other than employees of consignee or purchaser who assisted in the preparation of this statement. If none, state "NONE.")

none

9. CERTIFICATION OF ULTIMATE CONSIGNEE (This item is to be completed by the ultimate consignee only.)

We certify that all of the facts contained in this statement are true and correct to the best of our knowledge and belief and we do not know of any additional facts which are inconsistent with the above statement. We shall promptly send a supplemental statement to the person named in Item 2, disclosing any change of facts or intentions set forth in this statement which occurs after the statement has been prepared and forwarded. With respect to any shipment covered by this statement which we propose to dispose of contrary to the representations made in this statement, or contrary to the list of countries approved on the export license and brought to our attention on the bill of lading, commercial invoice, or by any other means, we will notify the person named in Item 2 and will secure U.S. Government approval through him prior to such disposition.

Sign here

in ink

November 3, 1959

Date of signing

Signature of official of firm named in Item 1. (See instructions on front of form.)

Type or

print

Paul COFFE President, General Manager

Name and title of person signing this document

10. CERTIFICATION OF PURCHASER (This item is to be completed only where (1) the purchaser is not the same as the ultimate consignee or (2) where the ultimate consignee is unknown.)

We certify that all of the facts contained in this statement are true and correct to the best of our knowledge and belief, and we do not know of any additional facts which are inconsistent with the above statement. We also certify that with respect to any shipment which we propose to dispose of contrary to the representations made in this statement, or contrary to the list of countries approved on the export license and brought to our attention on the bill of lading, commercial invoice, or by any other means, we will notify the person named in Item 2 and will secure U.S. Government approval through him prior to such disposition.

Type or
print

Name of purchaser firm, if different than name in Item 1

Sign here

in ink

Signature of official of firm. (See instructions on front of form.)

Type or
print

Date of signing

Name and title of person signing this document

The making of any false statement or the concealment of any material fact in connection with this exportation, or failure to file required supplemental statements by the consignee and purchaser, is punishable by denial of participation in U.S. exports. Notarial or Governmental certification is not required.