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MATERIAL BALANCE REPORT

| | | |
|---|--|---|
| 1. NAME AND ADDRESS David C. Daugherty RSO Hope College 27 Graves Place Physics Dept. VanderWerf Hall Holland MI 49422 | 2. LICENSE NUMBER(S) 21-13583-01 | 3. REPORTING IDENTIFICATION SYMBOL (RIS) ZJF |
| | 4. REPORT PERIOD (MM/DD/YYYY) FROM 01/01/2017 TO 12/31/2017 | 5. MATERIAL TYPE (Submit separate report for each type) Sealed Source MRC-PuBe291 |

SECTION A MATERIAL ACCOUNTABILITY

| PC | SEQ | | A. ELEMENT WEIGHT | B. ISOTOPE WEIGHT |
|-----------------|-----|---|-------------------|-------------------|
| A | 1 | 8. BEGINNING INVENTORY – U.S. GOVT-OWNED | | |
| | | 9. BEGINNING INVENTORY – NOT U.S. GOVT-OWNED | 32g | 29g |
| RECEIPTS | | | | |
| | | 11. PROCUREMENT FROM DOE RIS | | |
| | | FROM: | | |
| | | 13. PROCUREMENT – FOR THE ACCOUNT OF DOE | | |
| | | 14. DOD RETURNS – USE A | | |
| | | 15. DOD RETURNS – USE B | | |
| | | 16. DOD RETURNS – OTHER USES | | |
| | | 21. PRODUCTION | | |
| | | 22. FROM OTHER MATERIALS a. ICT | | |
| | | b. ICT | | |
| | | c. ICT | | |
| | | 30. RECEIPTS REPORTED TO DOE/NRC ON DOE/NRC 741 (not listed elsewhere) | | |
| | | FROM: RIS | | |
| | | 34. RECEIPTS – MISC | | |
| | | 37. PROCUREMENT BY OTHERS | | |
| | | 38. DONATED MATERIAL – FROM U.S. GOVT TO OTHERS | | |
| | | 39. DONATED MATERIAL – FROM OTHERS TO U.S. GOVT | | |
| A | 2 | 40. TOTAL (Lines 8-39) | 32g | 29g |
| REMOVALS | | | | |
| | | 41. EXPENDED IN SPACE PROGRAMS | | |
| | | 42. SALES TO U.S. GOVT RIS TO: RIS | | |
| | | TO: | | |
| | | 43. SALES TO OTHERS FOR THE ACCOUNT OF U.S. GOVT RIS | | |
| | | TO: | | |
| | | 44. DOD – USE A | | |
| | | 45. DOD – USE B | | |
| | | 46. DOD – OTHER USES | | |
| | | 47. EXPENDED IN U.S. GOVT TESTS | | |
| | | 48. ROUTINE TESTS | | |
| | | 49. SHIPPER – RECEIVER DIFFERENCE | | |
| | | 51. SHIPMENTS REPORTED TO NRC/DOE ON NRC/DOE 741 (not listed elsewhere) | | |
| | | TO: RIS | | |

NMMSS D-3

NRC DIRECTORY OF REPORTING IDENTIFICATION SYMBOLS

Last Update

FACILITY: HOPE COLLEGE
DEPARTMENT OF PHYSICS

RIS: ZJF

CONTACTS

BUSINESS: DAVID C DAUGHERTY
TECHNICAL: No Contact
TECHNICAL: No Contact

TELEPHONE: 616-395-7519
TELEPHONE:
TELEPHONE:

ADDRESS(ES)

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MAILING/BUSINESS ADDRESS

HOPE COLLEGE
DEPARTMENT OF PHYSICS
ATTN: DAVID C DAUGHERTY
27 GRAVES PLACE
HOLLAND, MI 49423-9000

MAILING/BUSINESS ADDRESS

HOPE COLLEGE
DEPARTMENT OF PHYSICS

NO Address

NO CHANGE

1/2/18

David C Daugherty RSO