

Hewlett-Packard Company
Little Falls Site
2850 Centerville Rd.
Wilmington, DE 19808



96-19
PR

May 6, 1996

US Nuclear Regulatory Commission
Sealed Source Safety Section
Medical, Academic, & Commercial Use Safety Branch
Attention: Ms. Kimberly Randall
Washington, D.C. 20555-0001

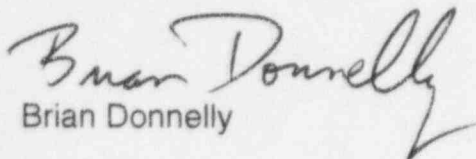
Re: Assignment Number 96-19, Certificate of Registry NR-348-D-111-B.

Dear Ms. Randall,

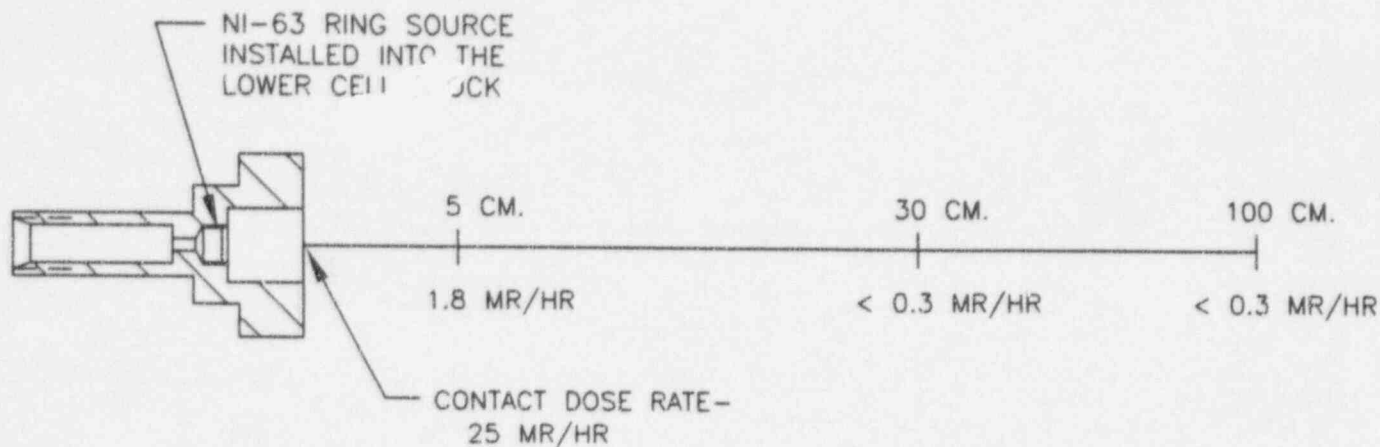
Please find attached a new Isodose survey report for our new Electron Capture Detectors, models: G2397A, G2398A, G2404A, G2405A, my submittal letter dated April 9, 1996, assignment number 96-19.

Thank you for your assistance in these matters. If should you require any additional information, please do not hesitate to contact me at (302)633-8120.

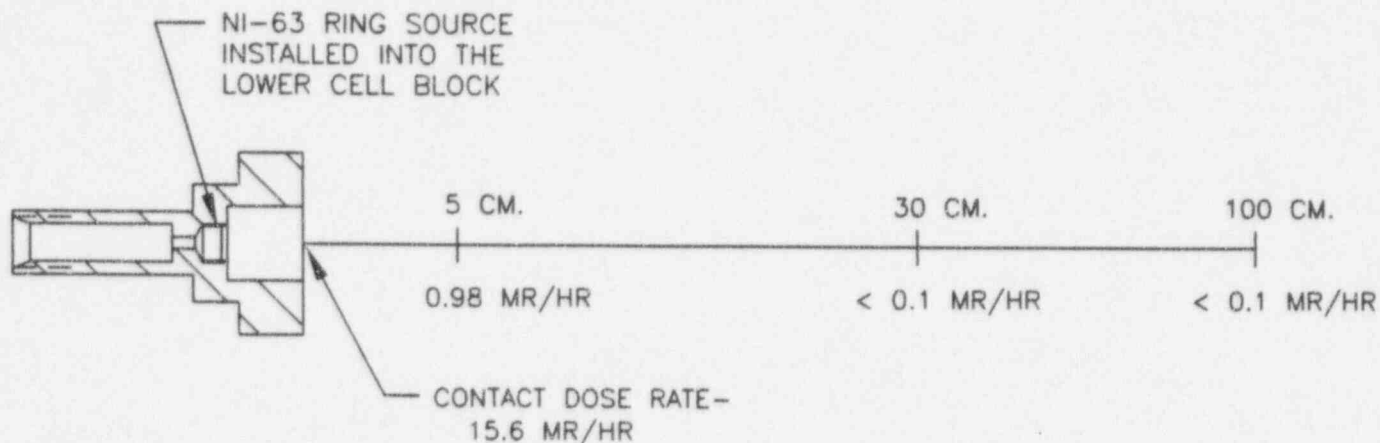
Sincerely yours,


Brian Donnelly

NER-004P NI-63 RING SOURCE DOSE RATE REPORT



BETA (SHALLOW) DOSE RATES



GAMMA (DEEP) DOSE RATES

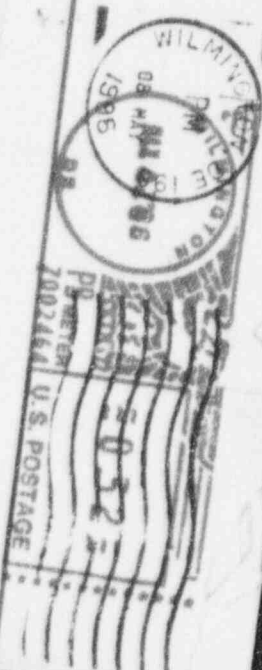
NOTES

1. Source used: NER-004P 15 mCi Ni-63 on 4/96.
2. Beta dose rate measurements are performed with 'Landauer' Type G film badges having 7 milligrams/square centimeter filter. Minimum detectable dose rate is 0.3 mR/hour.
3. Gamma dose rate measurements are performed with 'Landauer' Type G film badges having 300 milligrams/square centimeter filter. Minimum detectable dose rate is 0.1 mR/hour.

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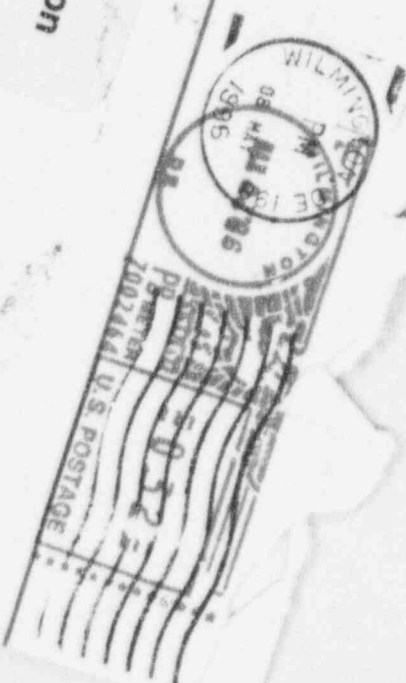
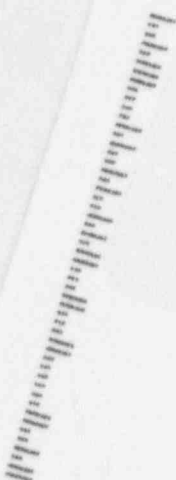
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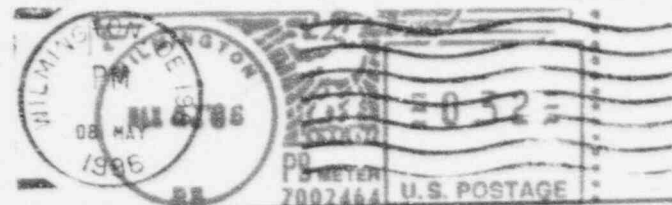
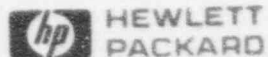


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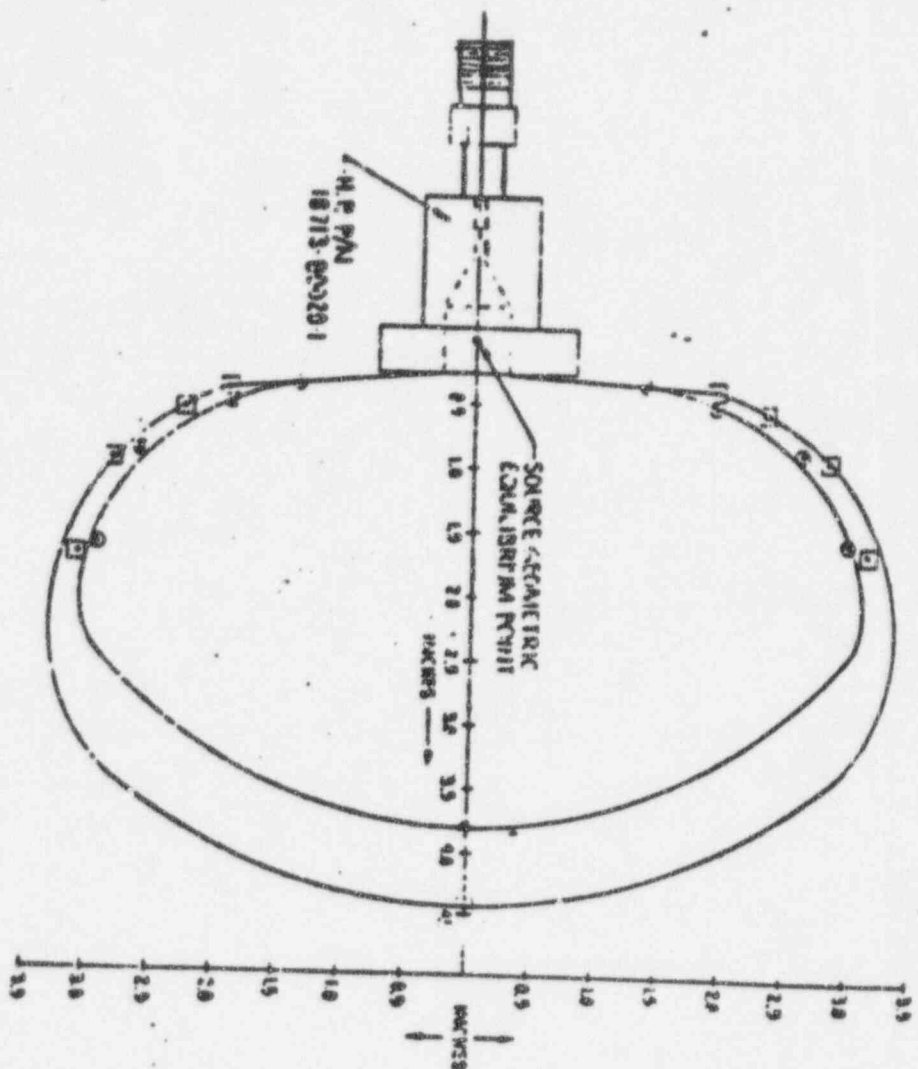


Printed on recycled paper.
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2.66 DIA
FLARE DIA
2.36 I.D.
2.62 DIA
(Ø CELL)
1.67

TUBE FLARING DETAIL

[illegible]



LEGEND

- PENETRATING RADIATION ($\sim 28 \text{ MG./CM}^2$)
2 MR/HR ISODOSE
- PENETRATING AND HIGH PENETRATING
RADIATION 2 MR/HR ISODOSE

NOTES

1. DOSE MEASUREMENTS TAKEN WITH LIF TLD CHIPS 1.25 CM^2 ($\frac{1}{2}$ " DIA.).
2. PENETRATING RADIATION ON IS BREMSSTRAHLUNG AND IN K X RAYS HAVING MEAN ENERGY $\sim 20 \text{ KEV}$.
3. TEST DATA IS MEAN OF TWO UNITS TESTED EACH CONTAINING INITIAL IS MCL NI-63.
4. AT 0 DISTANCE (CONTACT):
PENETRATING RADIATION 354019 MR/HR
NON-PENETRATING RADIATION 226019 MR/HR

DRAWING NO. 18713-000201		REV. 1		REV. 2		REV. 3	
DATE 8-1-77		BY 18713-000201		CHECKED 18713-000201		APPROVED 18713-000201	
DO NOT SCALE DRAWING		NEW ENGLAND NUCLEAR CORP.		BOSTON, MASS.		63Ni EC CHAMBER ISODOSE	
5K8017J5							

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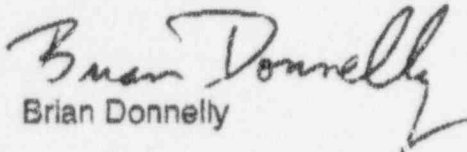
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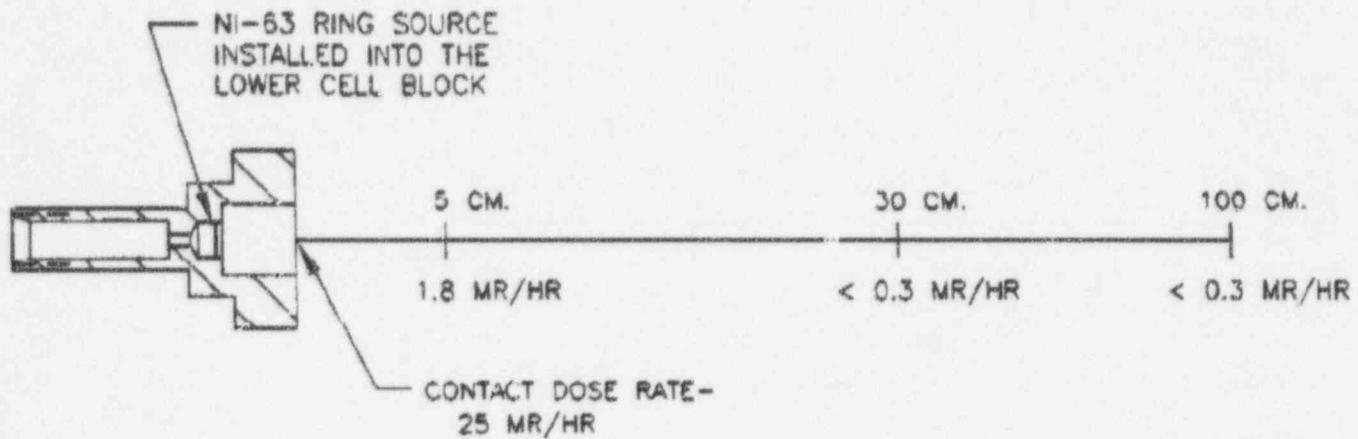
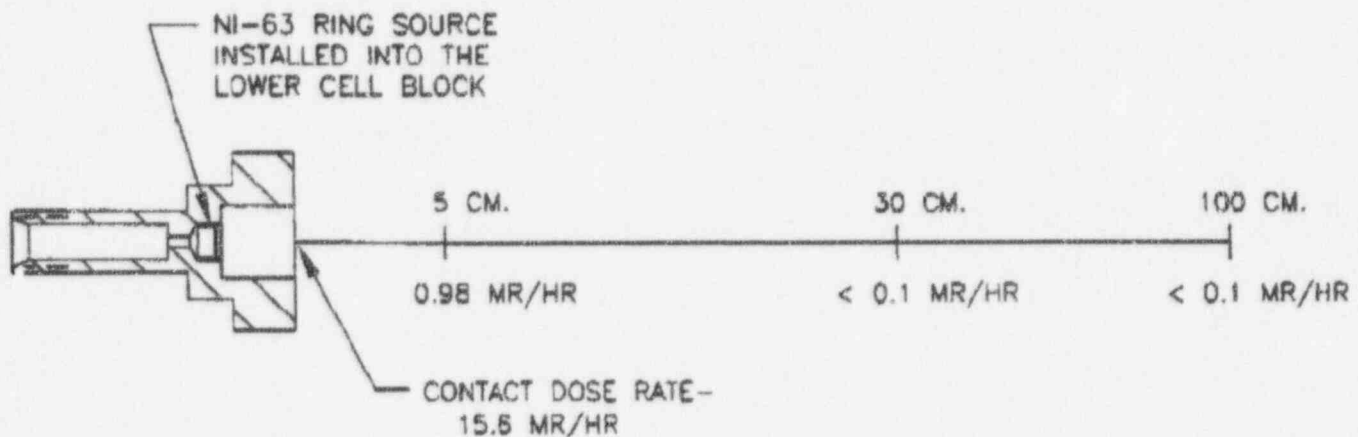
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Sincerely yours,


Brian Donnelly

NER-004P NI-63 RING SOURCE DOSE RATE REPORTBETA (SHALLOW) DOSE RATESGAMMA (DEEP) DOSE RATESNOTES

1. Source used: NER-004P 15 mCi Ni-63 on 4/96.
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3. Gamma dose rate measurements are performed with 'Landauer' Type C film badges having 300 milligrams/square centimeter filter. Minimum detectable dose rate is 0.1 mR/hour.

Hewlett-Packard Company
Little Falls Operation
2850 Centerville Road
Wilmington, DE 19808-1610
302/633-8000
Fax 302/633-8913



Fax

Cover Sheet

To: US NRC - Kim Randall

Company:

Telephone Number:

Fax Number:

From: Brian Donnelly

Date: 5/7/96

Number of pages to
follow: 2

If you have problems
with this fax transmission
please contact: