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August 30, 1984
TD: 133

DR. PARKER E. MORELAND, JR.
Vice President
Technical Development

US Nuclear Regulatory Commission, Region I
631 Park Avenue
King of Prussia, PA 19406

Attn: Mr. James H. Joyner III, Chief
Materials and Safeguards Branch

Dear Mr. Joyner:

Enclosed are two copies of the remaining survey sheets of Canberra/RMC's radiological Close-out Survey. Please attach these to the report previously sent to you.

Sincerely,

Parker E. Moreland, Jr. Ph.D.
Vice President - Technical Development

PEM/ama

8501090150 841228
NMS LIC30
37-00611-09 PDR

"OFFICIAL RECORD COPY"

15906
ML18

CANBERRA / RMC

CONTAMINATION SURVEY FORM

DATE 8/29/81
TIME 10:10

INST MAKE/MODEL Electron
S/N 4871

PROBE HP-210

CAL DATE 6/11/81 8/29/81

EFFICIENCY 12 %

PROBE AREA 20

SURVEYER George Christensen
LOCATION Cont Room and
Rest Room

Direct CPM
5000 DPM/100cm² 120

Smear CPM
1000 DPM/100cm² 120

APPROVAL [Signature]

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
Grey Storage Cabinet; 2nd from Right; 2nd shelf; Metal Surface	<100	<100	Ditto; 4th shelf Metal Surface	<100	<100
Ditto; 2nd shelf assorted Contents	<100	<100	Ditto; 5th (bottom) shelf Metal surface	<100	<100
Ditto; 3rd shelf Metal surface	<100	<100	Ditto; 5th (bottom) shelf Papers	<100	<100
Ditto; 3rd shelf Radiation signs	<100	<100	East Wall	<100	<100
Ditto; 4th shelf Metal Surface	<100	<100	Window Blind East wall	<100	<100
Ditto; 4th shelf Assorted Contents	<100	<100	Window East Wall	<100	<100
Ditto; 5th shelf Metal Surface	<100	<100	Concrete floor on N. End of Room	<100	<100
Ditto; 5th shelf Counters	<100 Large Contaminated one removed	<100	Concrete Wall and Metal Door on East Side of Hallway	<100	<100
Grey Storage Cabinet Right End; Top shelf Metal Surface	<100	<100	AIRCO Model # 514 Orange Instrument	<100	<100
Ditto; 2nd shelf Metal Surface	<100	<100	West Wall of Hallway	<100	<100
Ditto; 3rd shelf Metal Surface	<100	<100	Microwave Oven on table at South Wall of Hallway	<100	<100

CANBERRA / RMC

CONTAMINATION SURVEY FORM

DATE 8/20/84
TIME 0850

SURVEYER Gorge Christian
LOCATION Count Room and
Rest Room

INST MAKE/MODEL Fluorine
S/N 9042 41871

PROBE HP-210 P-26
CAL DATE 6/11/84 8/20/84
EFFICIENCY 12 %
PROBE AREA 20

APPROVAL [Signature]

Direct CPM
5000 DPM/100cm² 120

Smear CPM
1000 DPM/100 cm² 120

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100 cm ²
Grey Storage Cabinet N. wall; outer side Entire surface	<100	<100	Ditto; Top shelf Boxes & contents	<100	<100
Grey Storage Cabinet Back side ; 3rd shelf metal surface	<100	<100	Ditto; 2nd shelf metal surface	<100	<100
Ditto; 2nd shelf metal surface	<100	<100	Ditto; 2nd shelf contents (boxes & cans)	<100	<100
Ditto; 2nd shelf plastic bags	<100	<100	Ditto 3rd shelf metal surface	<100	<100
Ditto; 3rd shelf metal surface	<100	<100	Ditto; 3rd shelf plastic bags	<100	<100
Ditto; 3rd shelf Round log books	<100	<100	Ditto; 4th shelf metal surface	<100	<100
Round to Ditto; 4th shelf metal surface	<100	<100	Ditto; 4th shelf Boxes & assorted items	<100	<100
Ditto; 4th shelf Paint cans & cardboard boxes	<100	<100	Ditto; 5th (bottom) shelf; metal surface	<100	<100
Ditto; 5th (bottom) shelf; metal surface	<100	<100	Ditto; 5th (bottom) shelf assorted contents	<100	<100
Ditto; 5th (bottom) shelf note books & other contents	<100	<100	Grey Storage Cabinet 2nd from right; top shelf; metal surface	<100	<100
Grey Storage Cabinet; 2nd from right; top shelf; metal surface	<100	<100	Ditto; top shelf Cans & glassware labeled Radioactive	<100	<100

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CONTAMINATION SURVEY FORM

DATE 8/20/84
TIME 14:45

INST MAKE/MODEL Eberline

S/N 4871

PROBE HP-210

CAL DATE 12

	EFFICIENCY	%
1	80	80
2	75	75
3	70	70
4	65	65
5	60	60
6	55	55
7	50	50
8	45	45
9	40	40
10	35	35
11	30	30
12	25	25
13	20	20
14	15	15
15	10	10
16	5	5
17	0	0

PROBE AREA 20

Direct $\frac{\text{CPM}}{5000 \text{ DPM}/100\text{cm}^2}$ 120

Smear $\frac{\text{CPM}}{1000 \text{ DPM} / 100 \text{ cm}^2}$ 120

APPROVAL

[illegible]

CANBERRA / RMC

CONTAMINATION SURVEY FORM

DATE 8/20/84
TIME 13:05

INST MAKE/MODEL Electron
S/N 4571

SURVEYER Graeme Christie
LOCATION Count Room and
Rest Room

PROBE HP-210
CAL DATE 6/11/84 8/20/84
EFFICIENCY 12 %
PROBE AREA 20

APPROVAL [Signature]

Direct CPM
5000 DPM/100cm² 120

Smear CPM
1000 DPM/100cm² 120

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
Excellence Refrigerator	<100	<100	South Wall of Bathroom	<100	<100
Coffee Sack on table at N. End of Hallway	<100	<100	Sink in Bathroom	<100	<100
Storage Drawers on N. End of Hallway	<100	<100	Door to bathroom & Entranceway	<100	<100
Storage Shelf on Table on N. End of Hallway; Metal surface	<100	<100	Outer & Inner metal surface Foot locker in Bathroom	<100	<100
Ditto; Assorted Contents on shelves	<100	<100	Mirror on East Wall of Bathroom	<100	<100
East Wall of Hallway	<100	<100	Contents of foot locker in Bathroom	<100	<100
North Wall of Hallway	<100	<100	Shelf in bathroom outer & inner metal surface	<100	<100
Table on N. End of Hallway	<100	<100	Paper towel dispenser in Bathroom	<100	<100
East Wall of Bath Room	<100	<100	Toilet in Bathroom	<100	<100
North Wall of Bath Room	<100	<100	Waste Basket and Plunger in Bathroom	<100	<100
West Wall of Bath Room including Overway to ant room	<100	<100	Floor in Bathroom	<100	<100

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CONTAMINATION SURVEY FORM

DATE 8/20/84
TIME _____

SURVEYER Neal Lamer
LOCATION COUNT ROOM
South Wall and But
Room

INST MAKE/MODEL 444/487
S/N _____

PROBE _____
CAL DATE 6-11-84 / 8/20/84
EFFICIENCY 10 %
PROBE AREA 20

APPROVAL [Signature]

Direct CPM
5000 DPM/100cm² 100

Smear CPM
1000 DPM/100cm² 100

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
INSIDE GREEN CABINET SOUTH side INSIDE	<100	<100	UNDER DESK SOUTH side	<100	<100
GREEN CABINET SOUTH side INSIDE	<100	<100	GRAY DESK INSIDE	<100	<100
BROWN CABINET SOUTH side INSIDE	<100	<100	GRAY DESK ON TOP	<100	<100
GREEN CABINET OUTSIDE	<100	<100	SOUTH WALL	<100	<100
GREEN CABINET OUTSIDE	<100	<100	FLOOR	<100	<100
BROWN CABINET OUTSIDE	<100	<100	WEST WALL	<100	<100
NMC COUNTING RATEMETER	<100	<100	STAIRS SOUTH EAST MISA	<100	<100
LADDER	<100	<100	Manipulators	<100	<100
HON GREEN CABINET INSIDE	<100	<100			
HON GREEN CABINET OUTSIDE	<100	<100			
DESKTOP SOUTH side	<100	<100			

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CONTAMINATION SURVEY FORM

DATE 8/20/84
TIME 0240SURVEYER NGA1 Raines
LOCATION MessengersINST MAKE/MODEL 4871
S/N _____PROBE 6-11-84CAL DATE 12-11-84EFFICIENCY 102 %PROBE AREA 20APPROVAL [Signature]Direct CPM
5000 DPM/100cm² 100Smear CPM
1000 DPM/100cm² 100

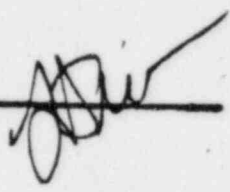
Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
AIR COMPRESSOR	<100	<100	Safe Box	<100	<100
AIR VENT System	<100	<100	Boxest Box of metal	<100	<100
Shelf's Southside	<100	<100	Central eye Beam	<100	<100
EAST SHELF'S	<100	<100	East Wall	<100	<100
South Wall	<100	<100	North Wall	<100	<100
Grey Filr Cabinet over Stairs	<100	<100	Floor	<100	<100
DESK And chairs	<100	<100			
STAIRSWAY	<100	<100			
W-WALL	<100	<100			
Shelf's on wall	<100	<100			
Nozian Fouling cabinet	<100	<100			

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CONTAMINATION SURVEY FORM

DATE 8/20/84TIME 0120SURVEYER Neal RainerLOCATION Supervisor OfficeINST MAKE/MODEL 4871

S/N _____

PROBE 6-11-80 HP-210CAL DATE 12-11-80 8/20/84EFFICIENCY 10% %PROBE AREA 20APPROVAL FR Direct CPM
5000 DPM/100cm² 100Smear CPM
1000 DPM/100cm² 100

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
Supervisor Office			TELETYPE Telecopy	<100	<100
EAST WALL SUPERVISOR OFFICE	<100	<100	Heater 5 SUPERVISOR OFFICE	<100	<100
EAST SIDE GLASS GREEN CABINETS	<100	<100	WATER COOLER SUPERVISOR OFFICE	<100	<100
SOUTH SIDE PANEL WALL	<100	<100	FLOOR IN SUPERVISOR OFFICE	<100	<100
SUPERVISOR DESK	<100	<100	DOOR IN SUPER VISOR OFFICE	<100	<100
WEST WALL SUPERVISOR OFFICE	<100	<100	CHAIRS IN SUPERVISOR OFFICE	<100	<100
NORTH WALL GLASS WINDOW SUPERVISOR OFFICE	<100	<100	BATH ROOM FLOOR	<100	<100
CABINET N.W. CORNER SUPERVISOR OFFICE	<100	<100			
NORTH WALL SUPERVISOR	<100	<100			
WASTE BASKET SUP	<100	<100			
BOOK SHELF COFFEE TABLE NORTH WALL SUPERVISOR	<100	<100			

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CONTAMINATION SURVEY FORM

DATE 8/20/84
 TIME 848 AM

INST MAKE/MODEL 32618
 S/N

SURVEYER FRANK Henry
 LOCATION Secretary's Office

PROBE HP210
 CAL DATE 1/17/84 8/20/84
 EFFICIENCY 13 %
 PROBE AREA 2B

APPROVAL [Signature]

Direct CPM
5000 DPM/100cm² 130
 Smear CPM
1000 DPM/100cm² 130

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
EAST wall near the HOT cell box	<100	<100	SECRETARY'S <u>mister</u>		
Floor Right by the HOT cell box	<100	<100	Film Badge Box	<100	<100
W Wall of office	<100	<100	Weather maker S wall	<100	<100
E - wall of office	<100	<100	Floor in The Secretary's OFFICE	<100	<100
N - wall of office	<100	<100	Heater in The Sec office	<100	<100
S - wall of office	<100	<100	trash Can	<100	<100
W - wall DESK and everything with it	<100	<100			
N - W - wall Desk and everything with it	<100	<100			
SECRETARY'S CABINET	<100	<100			
S - wall CABINETS	<100	<100			
Chairs in office	<100	<100			

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CONTAMINATION SURVEY FORM

DATE 8/21/74
TIME 0845

INST MAKE/MODEL Lectron
S/N 52618

PROBE HP-210

CAL DATE 5/1/74 6/21/74

EFFICIENCY 17 %

PROBE AREA 70

SURVEYER L. H. Adams
LOCATION Parkside Lot
Shipping Containers

Direct CPM
5000 DPM/100cm² 18

Smear CPM
1000 DPM/100cm² 11

APPROVAL 

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
Multitron Model 53 (4)	<100	<100	Round Wood (Red) Containers SC-225	<100	<100
Model 151 (2)	<100	<100	SC-219	<100	<100
Model 110A		ALL	Multitron model 1563 (Black)	4000 - 6000	<100
Model 110A (4)	<100	<100	Multitron model 53 on wheels	<100	<100
Model 51 (3)	<100	<100	Model 110 AB on wheels	<100	<100
Model 52B (1)	<100	<100			
Model 10 (3)	<100	<100			
Camera Boxes (7)	<100	<100			
Round Green Source Holders (2)	<100	<100			
Round Yellow Source Holder (1)	<100	<100			
Container #1680	<100	<100			
#1718	<100	<100			
#1719	<100	<100			

CONTAMINATION SURVEY FORM

Smear $\frac{\text{CPM}}{1000 \text{ DPM} / 100 \text{ cm}^2}$ 140

[illegible]

CANBERRA / RMC

CONTAMINATION SURVEY FORM

DATE 8/2/84
TIME 08.45

INST MAKE/MODEL RMU-14

S/N 4871

PROBE HP-210

CAL DATE 6/11/84 8/2/84

EFFICIENCY 14 %

PROBE AREA 20

SURVEYER George Christy

LOCATION Machine Shop

Direct CPM
5000 DPM/100cm² 140

APPROVAL [Signature]

Smear CPM
1000 DPM/100cm² 140

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
Part from on East End of Room	<100	<100	Door to Mezzanine	<100	<100
NE Door Cto Counting Room	<100	<100	Waste Basket by Mezzanine Door	<100	<100
Table E. End of Room incl contents	<100	<100	Desk & Rolling system Table N.W. Corner	<100	<100
Boxes under slat Table; inside & out	<100	<100	Storage Cabinet N.W. Corner of room inside & out	<100	<100
Waste Baskets by Table; E. End of room	<100	<100	N.W. Entrance Door	<100	<100
Time Clock on S Wall Near NW Entrance	<100	<100	Metal Object N.W. Corner of room	<100	<100
Fire Box SW Corner of Room	<100	<100	N. Wall from entrance to Gymnasium to N.W. Entrance	<100	<100
Alarm Box SW Corner of Room	<100	<100	Communication Locker Against W. Wall	<100	<100
Entrance Door SW corner of room	<100	<100	West Wall and Garage Door	<100	<100
North Wall to Entrance To Mezzanine	<100	<100	Mobile cart and Parts at West End of room	<100	<100
Table in N.E. Corner of Room including Contents on top	<100	<100	Metal Table SW Corner of Room including contents	<100	<100

CANBERRA / RMC

CONTAMINATION SURVEY FORM

DATE 8/21/84TIME 11:50SURVEYER Neg / RainesLOCATION Machine RoomINST MAKE/MODEL LudlumS/N 32178 4164PROBE HP-210CAL DATE 3-27-84 8/21/84EFFICIENCY 18 %PROBE AREA 20Direct CPM
5000 DPM/100cm² 180Smear CPM
1000 DPM/100cm² 180APPROVAL [Signature] [Signature]

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
Boxes on Table next to vice South wall	<100	<100	Machine Room Floor	<100	<100
Sand paper on top of weights	<100	<100			
Machine on Table next to gas tank	<100	<100			
gas tank South side of room	<100	<100			
Table top near weights are South side Room	<100	<100			
Cycling Lamp on Table next to weights	<100	<100			
Welding Machine South side of Room	<100	<100			
Probin Tank South side of Room	<100	<100			
Signode South side of Room	<100	<100			
Shedding Machine South side Room	<100	<100			
South Side Brick Walls	<100	<100			

CANBERRA / RMC

CONTAMINATION SURVEY FORM

DATE 8/21/84TIME 0840SURVEYER Neal RainesLOCATION Machine RoomINST MAKE/MODEL LudlumS/N 32618PROBE HP-210CAL DATE 5/1/84 8/21/84EFFICIENCY 18 %PROBE AREA 20APPROVAL [Signature]Direct CPM
5000 DPM/100cm² 180Smear CPM
1000 DPM/100cm² 180

CR = Count Room

Discrip Item/Area	Direct CPM	Removable cpm/100cm ²	Discrip Item/Area	Direct CPM	Removable cpm/100cm ²
WEST WALL CR DOWN IN THE DIS.	<100	<100	DO ALL machine	<100	<100
FRITITION EAST END ROOM MR	<100	<100	AIRCO Machine	<100	<100
Machine Room BOX ON TOP ES FILING CABINET	<100	<100	SOUTH WALL BRICK	<100	<100
PRECISION LATHE MACHINE ON EAST SIDE	<100	<100	Light GRAY CABINET	<100	<100
BILL BOARD IN Machine Room	<100	<100	NORTH WALL DARK GRAY CABINET	<100	<100
KENT MACHINE GREEN TOOL CAB	<100	<100	NORTH WALL 2 TIRE By Airco Machine	<100	<100
BLACK Bucket ON TOP OF GREEN CAB	<100	<100	BOX 8 BOX STAT UP	<100	<100
GRAY Table NORTH Side of Wall	<100	<100	GRAY CART WIRE ON TOP	<100	<100
CINCINATI GRAY Machine	<100	<100	DELTA Machine	<100	<100
DELTA Power Tool Machine	<100	<100	South Side of Room	<100	<100
OVERSEA CLAISING	<100	<100	20 POUND NIGHT SOUTH Side of Room	<100	<100
			Vice Grippers HAND SAW South Wall	<100	<100

CANBERRA / RMC

DATE 8/21/84
TIME 1730

SURVEYER L. Umbaugh
LOCATION Hot Cell

INST MAKE/MODEL Ludlum
S/N 32618
PROBE HP-210
CAL DATE 8/21/84
EFFICIENCY 18 %
PROBE AREA 20

APPROVAL *[Signature]*

Direct $\frac{\text{CPM}}{5000 \text{ DPM}/100 \text{ cm}^2}$ 180

Smear $\frac{\text{CPM}}{1000 \text{ DPM}/100 \text{ cm}^2}$ 180

[illegible]