

EQUIPMENT LIST

<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
1 +	Vacuum Induction Melting Furnace and air melting stand Manufacturer - Wiley NRC	1000 lb. steel 350 lb. uranium 100 KW Bottom pouring and tilt pouring			
2 *	Vacuum Arc Furnace Manufacturer - NRC	100 lb. steel Consumable and none- consumable 3 molds 2.3" dia. 2.8" dia. 3.8" dia.			
3	Forge Press Manufacturer - Lake Erie	300 Ton			
4 *	Sodium Bonding Equipment Manufacturer - Vacuum Specialties	50 elements $\frac{1}{2}$ " dia. X 6" long			
5	Rolling Mill Manufacturer - Farrel & Onia	18" X 22" 75 H. P.			
6	Punch Press Manufacturer - Niagara	75 ton 6" stroke - $7\frac{1}{2}$ H.P.			
7	Shear Manufacturer - Steelweld	6' long $\frac{3}{8}$ mild steel			
8 +	Vacuum Annealing Horizontal Furnace Manufacturer - Hevi Duty	6" I.D. - 40" hot zone - 1000°C.			
9	Salt Bath Manufacturer - Holden	1700°F. 10" X 20" X 5" Brick Pot 1 Extra Pot			
10	Rolling Mill Manufacturer - Ruesch	8 X 8			

EQUIPMENT LIST

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<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
11	Vapor Degreaser Manufacturer - Remco	36" X 6'			
12*	Rod Straightener Manufacturer - Anderson	10 ton			
13	Horizontal Milling Machine Manufacturer - B & S No. 12	Rise & fall type Table size 12" X 60" Table travel 24"			
14	Horizontal Milling Machine Manufacturer - B & S No. 12	Table size 12" X 60" Table travel 24"			
15	Horizontal Milling Machine Manufacturer - B & S No. 12	Table size 12" X 60" Table travel 24"			
16	Horizontal Milling Machine Manufacturer - B & S No. 12	Table size 12" X 60" Table travel 24"			
17	Horizontal Milling Machine Milwaukee	Table size 12" X 72" Table travel 36"			
18	Zyglo Unit	Type ZA-28			
19	Industrial Clothing Washing Machine - Two (2) Industrial Clothing Drying Machines	50 lb. electric Gas Gas			
20	Industrial Clothing Spinner	50 lbs.			
21	3 Laundry Trucks				
21-A	X-Ray and Film Development Film Dryer	250 KVA			
22	Ultrasonic Test Tank & Scope	Tank 24" X 19" X 12"			
23+	Planer Bed Milling Machine Fitchburg	Table travel 58" Table size 24" X 72"			
24	Autoclave Manufacturer - Erie	3200 PSI 750°F. 10" I.D. X 72" long			

EQUIPMENT LIST

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<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
25	Autoclave Manufacturer - Erie	1 gallon 3200 PSI 750°F. 5" I.D. 10" deep			
26	Vacuum Glove Box Manufacturer - Venco	42" I.D. X 6½"			
27	Alligator Shear Manufacturer - Canton No. 00	½ X 6" plate			
28	Mass Spectro Leak Detector	Veeco MS-9			
29	Mass Spectro Leak Detector	Veeco MS-9			
30	Level Roller Manufacturer - Waterbury	9 roll - 30 H.P. 15" wide ½" thick			
31*	Ingot Arc Surface Conditioner Manufacturer - Vacuum Specialties	6" dia. X 24" long Ingot			
32**	Vacuum & Atmosphere Weld Box Manufacturer - Vacuum Specialties	6' capacity 20" swing			
33*	Cone Blender Manufacturer - Gemco	2 cubic ft. approx.			
34	Oven - circulating hot air Manufacturer - Despatch	800°F. 7.6 KW 24" X 36" X 20"			
35+	Hot Oil Bath Furnace	For rolling uranium 10' long			
36	Con Evacuation Station - 4" Vacuum Pumps Manufacturer - Kinney	10 nipples			
37	Oven for Con Evacuation Manufacturer - Despatch	800°F. 7.6 KW 24" X 26" X 6"			

EQUIPMENT LIST

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<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
38	Hot Air Furnace Manufacturer - Grieve-Kendry	1100° F.			
39	Swager Manufacturer - Torrington	3/8" dia. max.			
40	Induction Heater	2.5 KW			
41	Sieve Shaker				
42 +	Bending Brake Manufacturer - Cyril-Bath	80 ton - 6"			
43	Ceramic Spray Gun & Lathe Manufacturer - Metco	For spraying graphite crucibles with ZrO ₂			
44 *	Sintering Furnace H ₂ Atmos- phere. Manufacturer - C. I. Hayes	2050° F. 3" dia. X 12"			
45 *	H ₂ Manifold for above furnace				
46 +	Electro-Magnet				
47	Four-point Temperature Recorder	M-H Brown 1200°C.			
48 **	Stokes Vacuum Pump	32 CFM Mechanical			
49 **	Air Marking Press	For very small number stamping			
50 +	6" Vacuum Pump System	For use on vacuum annealing			
51 **	Water Demineralizer Manufacturer - Pennfield	Model M-200 200 gals./min.			

EQUIPMENT LIST

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<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
52 ***	Large Circumferential Welding Machine Manufacturer - Airco	7" swing 24" long Automatic wire feeder			
53 ***	Small Circumferential Welding Machine	$\frac{1}{2}$ " swing for welding .010 tubing			
54	Dye Check Hood	Equipped with ducts and blower			
55 ***	Centerless Grinding Machine	Grind uranium rods .400 dia. $\pm$.002			
56	Baitograph Portable X-Ray	300 KVA			
57 ***	X-Ray Viewing Screen in X-Ray Room	14 X 18			
58 +	Ball Mill	2 stone lugs 10" I.D. 10" deep			
59	Two crucible cleaning hoods (ONE *) (ONE +)	Approx. 3' X 3' X 3'			
60	Two general purpose hoods	Approx. 3' X 3' X 3'			
61 *	Leak Test Pressure Chamber	8" I.D. 7' long 2 atmospheres			
62 *	Felker Di-Met Cutoff Saw Precision cutting	$\frac{1}{2}$ " uranium			
63	Level Roll	8" width			
64 ***	X-Ray Viewer Manufacturer - Keloket	High Intensity			

EQUIPMENT LIST

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<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
65	Radiation Survey Meter				
66	CP3 Cutiepie Survey Meter				
67	Two air Samplers				
68	Count Rate Meter				
69	Gas Proportional Counter				
70	NMC Model PC-3 Proportional Counter				
71	Alnor Velometer				
72	Three (3) Laboratory Monitors & Three (3) Alpha Sintilation Probes				
73	Portable Count Rate Meter				
74	Portable Alpha Probe				
75	Four (4) RM-2 Radiation Monitors				
76	Two (2) Portable Air Samplers				
77	Survey Meter				
78	NMC Radiation Monitor & Alarm				
79	Fairbanks - Morse Scale	50 kg.			

EQUIPMENT LIST

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<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
80	Mettler Micro-Balance	Precision balance			
81	Mettler Balance	800 gms.			
82	Torsion Balance (competegram)	500 gms.			
83 *	Toledo Platform Scale	5 kg.			
84 **	<u>Cleaning Room Equipment</u>				
	(a) 2 stainless steel tanks	10" X 10" X 9"			
	(b) 2 stainless steel tanks with heaters	10" X 10" X 9"			
	(c) 1 stainless steel tank	11" X 10" X 42"			
	(d) 1 filtered hot air dryer	5" X 6" X 8"			
	(e) 1 filtered hot air dryer	8" X 8" X 5"			
85	<u>Large Pickle Room Equipment</u>				
	(a) 4 PVC pickling tanks with hoods & blowers	6" wide 12" deep 14" long			
	(b) 7 stainless steel tanks	12" X 12" X 7"			
	1 stainless steel tank with heater	10" X 19" X 9"			
	2 stainless steel hoods, blower & stacks				
86	Three (3) vacuum cleaners (Two *) (One +)	15 gal.			
87	Three (3) Scott Air Pock Masks				
88 **	Two (2) Gas Masks				
89 **	Granite Surface Plate & Stand				
90 **	Granite Surface Plate & Stand				

EQUIPMENT LIST

Page 8

<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
91**	#763 Bench Centers - Inspection				
92*	Double Jar Blender	For SS-UO ₂			
93*	Powder Metal Die	For SS-UO ₂			
94	UO₂ Powder 9.3 kg.	Depleted spheroidal			
95+	Racks for storage of enriched scrap material				
96	Oil Fume Exhaust System	Exhaust vacuum pumps			
97**	Pulvett Pulverizer	For powder metal			
98*	South Bend Lathe & Turnomat	For machining $\frac{1}{2}$ " dia. Ur-moly rack			
99	Fluoroscope (home built)				
100**	Welder Power Source	300 amps			
101**	Drawboard	10 ft.			
102**	M I G Welder	400 amp.			
103	T I G Welder	400 amp.			
104	Curtis Fender and Dust Box	6" wide			

EQUIPMENT LIST

<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
105	Shoe Sander	14" wide			
106	LeBlond Lathe	13" Swing 28" Centers			
107**	Warner & Swasey Turret Lathe				
108**	Bench Saw				
109	DeWalt Saw				
110	Lathe	10" swing 36" centers			
111	$\frac{1}{2}$ Ton Trolley System				
112	Forge Press Furnace	18" X 20" X 40"			
113**	Pako Temp. Refrigerator Unit				
114**	Wire Wrap Machine				
115**	XRay Film Cabinet				
200	Contaminated Water Disposal System	3 - 2500 gal. setting tanks 6 - filters 1 - deionizer Misc. pumps, etc. to handle approx. 5000 gal. per shift.			

EQUIPMENT LIST

<u>Item No.</u>	<u>Item</u>	<u>Capacity</u>	<u>Dimensions</u>	<u>Weight</u>	<u>Price</u>
201	Air Filtration System - 3 Large Blowers & Filter Boxes	Sufficient for 25,000 sq. ft. shop			
202 **	Oil fired Hot Air Make-Up System	3,750,000 BTU			
203	Steam heated hot air make-up blowers (2 units) Manufacturer - Nesbitt	1,190,000 BTU ea.			
204	Kinney Vacuum Pump - figured with furnace				
205	Fire Extinguisher				
206	5 KW H.F. Set				
207	2 inch Belt Sander				
208	Beading Machine				
209	Three (3) lines of internal air ducts				
210 **	Hot Wax Bath				
211	Small Pickle Room				
212 **	W.T.R. Assembly Fixture				
213 **	Tooling as shown - including WTR Bend Brake Dies and Draw Board Dies				
214 **	400 amp. Welder				
215	Pearless Saw				
216	Internal Storage Racks				
217 **	Bridgeport Milling Machine				
218	Rolling Mill Furnace				

99

CC

CONVEYOR.

SOPRIM
BOX

LAKE
ERIE
FORGE

R

SECRET

CONFIDENTIAL

WORK BENCH	PAB.	PAB.
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LEWIS TO

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BLANKET
ROD
STORAGE

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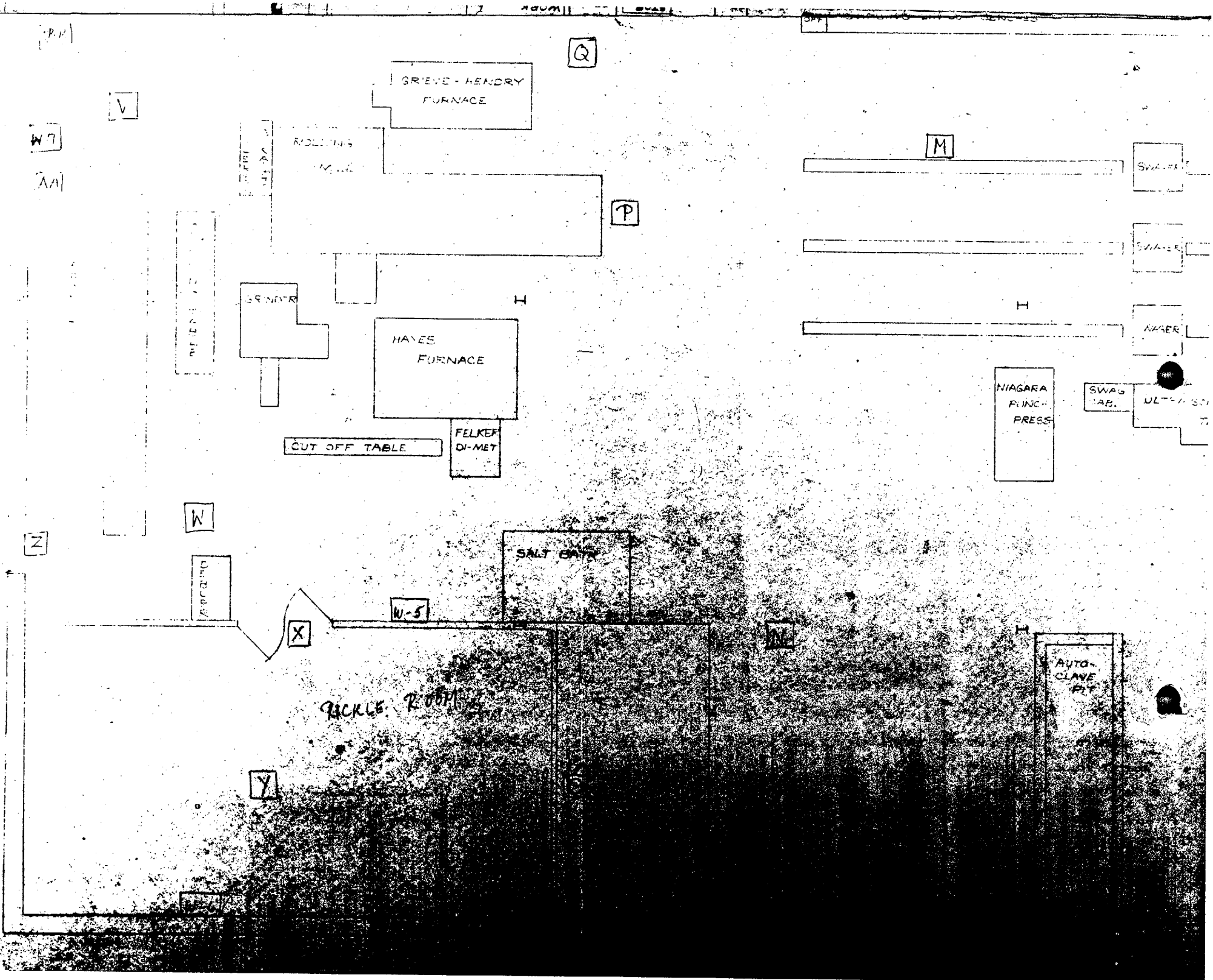
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VEHICLES ENTR.

PRODUCTION OFFICE

ACCOUNTS OFFICE

STORAGE

SHIPPING & RECEIVING

J

BRIDGE PORT
RISE & FALL
MILLER

BROWN & SHARP
#12 MILLER

BROWN & SHARP
#12 MILLER

THOMAS & LOWE
16" LATHE

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ROLLING
MILL

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9" LOSAN
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LE BOND
16" LATHE

W-1

CHEMISTRY LAB

TOOL
CAB.

PEW
WELDER

BROWN & SHARP
#12 MILLER

B&S RISE & FALL
#12 MILLER

HENDRY
16" LATHE

W-2

PHYSICS LAB

WORK TABLE

CAB.

WATERBURY
FARREL
LEVEL ROLL

LEVEL

K

WATERBURY
FARREL
LEVEL ROLL

LEVEL

WATERBURY
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WATERBURY
FARREL
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LOCKER ROOM

WATERBURY
FARREL
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WATERBURY
FARREL
LEVEL ROLL

WATERBURY
FARREL
LEVEL ROLL

SHOWER ROOM

L

CONTROL
CENTER

WATERBURY
FARREL
LEVEL ROLL

STATION

DARK ROOM

X-RAY ROOM

DIRTY CLOTH ROOM

WATERBURY
FARREL
LEVEL ROLL

EXHIBIT "C"

<u>Item No.</u>	<u>Direct Survey Results</u>				<u>Smear Survey Results</u>		<u>Remarks</u>
	<u>Alpha D/M</u>	<u>Beta Gamma MR/HR</u>	<u>Maximum</u>	<u>Average</u>	<u>Alpha D/M</u>	<u>Beta Gamma D/M</u>	
1	<u>> 25,000</u>	<u>> 25,000</u>	.05	.05	<u>4,500</u>	52	Inside
	4,500	1,000	.05	.05	<u>1,400</u>	34	Outside
2	400	< 400	.05	.05	20	15	
3	1,500	1,000	.05	.05	230	130	
4	1,500	800	.05	.05	19	12	
5	1,500	800	.05	.05	35	14	
6	200	< 200	.05	.05	58	53	
7	800	500	.05	.05	190	47	
8	4,000	1,000	.05	.05	230	37	
9	800	800	.5	.1	210	56	Beta gamma measured from Brick Pot
10	300	< 300	.05	.05	33	26	
11	14,000	<u>8,000</u>	.1	.1	<u>1,100</u>	330	
		5,000					5,000 on degreaser coils
	8,000	1,000			63	5.3	1,000 on inside surface

EXHIBIT "C"

- 2 -

Item No.	Direct Survey Results				Smear Survey Results		Remarks
	Alpha D/M	Beta Gamma MR/HR	Maximum	Average	Alpha D/M	Beta Gamma D/M	
12	500	300	.06	.06	54	72	
13	500	300	.05	.05	48	45	Serial No. 502-12-93
14	1,000	300	.05	.05	8.2	16	Property No. 367
15	3,500	500	.1	.05	62	14	No. 4172
18	200	200	.05	.05	8.6	6.0	
19	4,000	1,000	.1	.05	98	44	
20	100	100	.05	.05	34	19	
21							In use
21A	< 100	< 100	.05	.05	62	18	
22	1,000	400	.05	.05	320	71	
23	< 100	< 100	.05	.05	2.9	7.9	
24	150	150	.05	.05	8.6	3.7	
25	800	400	.05	.05	68	31	

EXHIBIT "C"

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Item No.	Direct Survey Results				Smear Survey Results		Remarks
	Alpha D/M		Beta Gamma MR/HR		Alpha D/M	Beta Gamma D/M	
	Maximum	Average	Maximum	Average			
26	200	100	.05	.05	18	8.5	
27	1,000	600	.15	.05	100	77	
28	500	100	.05	.05	190	330	
30	5,000	1,000	.05	.05	51	99	
31	100	100	.05	.05	60	43	
33	100	100	.05	.05	7.7	6.7	
34	1,000	500	.05	.05	1,000	260	
35	1,500 400	1,500 200	.05	.05	69	83	1,500 on oil filters (will not be shipped)
36	100	100	.05	.05	55	12	
37	4,500	1,000	.05	.05	82	29	
38	<u>>25,000</u>	<u>10,000</u>	.05	.05	160	16	> 25,000 on inside steel lip
					260	8.1	
39	900	100	.05	.05	240	37	

EXHIBIT "C"

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Item No.	Direct Survey Results				Smear Survey Results		Remarks
	Alpha D/M		Beta Gamma MR/HR		Alpha D/M	Beta Gamma D/M	
	Maximum	Average	Maximum	Average			
40	2,000	900	.05	.05	97	56	
41	5,000	1,000	.05	.05	960	64	
42	100	100	.05	.05	20	13	
43	5,000	1,500	.05	.05	<u>3,100</u>	460	
44	1,000	400	.05	.05	180	30	
45	3,000	1,500	.05	.05	800	130	
46	1,500	300	.05	.05	4.1	8.8	
47							Out for repair
50	3,000	1,000	.05	.05	340	140	
54	100	100	.05	.05	140	32	
56	100	100	.05	.05	13	12	
58	>25,000	3,000	.1	.05			
	5,000	1,000					Rubber rollers >25,000, will replace
59	5,000	1,500	.3	.1	43	0	

EXHIBIT "C"

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Item No.	Direct Survey Results				Smear Survey Results		Remarks
	Alpha D/M		Beta Gamma MR/HR		Alpha D/M	Beta Gamma D/M	
	Maximum	Average	Maximum	Average			
60	5,000	3,000	.15	.1	126	64	
61	300	150	.05	.05	170	43	
62	1,000	1,000	.3	.1	700	430	
63	100	< 100	.05	.05	33	38	
65							Nuclear Safety Instrumentation
66							"
67							"
68							"
69							"
70							"
71							"
72							"
73							"
74							"

EXHIBIT "C"

- 6 -

Item No.	Direct Survey Results				Smear Survey Results		Remarks
	Alpha D/M		Beta Gamma MR/HR		Alpha D/M	Beta Gamma D/M	
	Maximum	Average	Maximum	Average			
75							Nuclear Safety Instrumentation
76							"
77							"
78							"
79	7,000	5,000	.1	.05	180	2.4	
	100	100	.05	.05			After painting
80	200	200	.05	.05	5.8	1.2	
81	400	200	.05	.05	110	24	
82	200	200	.05	.05	13	9.5	
83							Not decontaminated
					500	45	
85 (a)	4,000	3,000	.05	.05	95	27	After decontamination
(b) 7	800	600	.05	.05	170	39	
(b) 1	>25,000	25,000	.05	.05	3,600	230	
	400	200	.05	.05			After painting
(b) 2	4,000	2,000	.05	.05	1,200	150	

EXHIBIT "C"

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Item No.	Direct Survey Results				Smear Survey Results		Remarks
	Alpha D/M	Beta Gamma MR/HR	Maximum	Average	Alpha D/M	Beta Gamma D/M	
86							In use
87	400	200	.05	.05	340	44	
92	600	200	.05	.05	210	35	
93	800	400	.05	.05	290	210	
95/200/201/203 216 A.	400	100	.1	.05	280	64	Items crated and stored in fenced yard
95/200/201/203 216 B.	5,000	3,000	.05	.05			"
200/201 C.	1,000	600	.05	.05	290	350	"
200/201 D.	1,500	1,000	.05	.05	500	280	"
200/201 E.	1,200	300	.05	.05	150	41	"
201 F.	15,000	8,000	.05	.05	710	680	"
	5,000	2,500	.05	.05	5.9	0	After painting

EXHIBIT "C"

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Item No.	Direct Survey Results				Smear Survey Results		Remarks
	Alpha D/M		Beta Gamma MR/HR		Alpha D/M	Beta Gamma D/M	
	Maximum	Average	Maximum	Average			
201 G.	25,000	9,000	.05	.05	1,200	150	Item crated and stored in fenced yard
	1,000	500	.05	.05	7.0	0	After painting
201 H.	15,000	3,000	.05	.05	160	65	Item crated and stored in fenced yard
	5,000	1,000	.05	.05	4.7	0	After painting
200 I.	1,500	900	.05	.05	210	240	Item crated and stored in fenced yard
200 J.	300	200	.05	.05	29	6.7	"
200 K.	300	200	.05	.05	32	8.3	"
200 L.	300	200	.05	.05	8.4	2.8	"
96	600	200	.05	.05	130	68	
98	1,000	400	.05	.05	600	160	
99	200	100	.05	.05	85	11	

EXHIBIT "C"

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Item No.	Direct Survey Results				Smear Survey Results		Remarks
	Alpha D/M		Beta Gamma MR/HR		Alpha D/M	Beta Gamma D/M	
	Maximum	Average	Maximum	Average			
103	600	600	.05	.05	1,600	10	
111	1,000	700	.05	.05	71	30	
112	5,000	1,000	.05	.05	220	43	
204	700	450	.05	.05	1,200	140	
205	5,000	3,000	.05	.05	1,400	200	
209	1,500	1,000	.05	.05	89	22	Duct work in place hung from ceiling
215	3,000	2,000	.05	.05	320	100	

EXHIBIT "D"FLOOR AND WALL SURVEY

<u>Location</u>	<u>Direct Survey Results</u>			<u>Smear Survey Results</u>	
	<u>Alpha D/M</u>	<u>Beta Gamma</u>	<u>MR/HR</u>	<u>Alpha D/M</u>	<u>Beta Gamma D/M</u>
A	400	.05		140	35
B	600	.05		100	26
C	300	.05		380	25
D	450	.05		120	25
E	600	.05		480	35
F	500	.05		210	42
G	600	.05		150	36
H	550	.05		290	40
I Sheet Metal Floor	1000	.05		460	120
J	1000	.05		110	25
K	700	.05		120	28
L	350	.05		59	12
M	350	.05		78	15
N	600	.05		190	42
O	1000	.05		390	75
P	2000	.05		520	64
Q	3000	.05		310	59
R	1000	.05		130	37
S	1000	.05		120	34
T	1200	.05		150	24
U	1000	.05		220	51
V	900	.05		210	45
W	4000	.05		2000	240
X	5000	.05		3100	180
Y	7000	.05		950	93
Z	2500	.05		610	120
AA	1000	.05		280	83
BB	2000	.05		330	150

EXHIBIT "D"

FLOOR AND WALL SURVEY (CONT'D)

<u>Location</u>	<u>Direct Survey Results</u>		<u>Smear Survey Results</u>	
	<u>Alpha D/M</u>	<u>Beta Gamma MR/HR</u>	<u>Alpha D/M</u>	<u>Beta Gamma D/M</u>
CC	400	.05	200	41
DD	1000	.05	250	29
W-1	< 100	.05	17	0
W-2	< 100	.05	15	4.7
W-3	< 100	.05	20	11
W-4	< 100	.05	30	5.3
W-5	100	.05	34	0
W-6	150	.05	43	15
W-7	< 100	.05	2.3	0
W-8	< 100	.05	32	7.5
W-9	200	.05	5.5	0