

RIO ALGOM CORPORATION
LA SAL ROUTE
MOAB, UTAH 84532

NRC License Number: SUA-1119
Docket Number: 40-8084
Specific Reference: 10CFR 40.65 (a)(1)

Report of Radioactive Effluents Discharged to the Unrestricted Atmosphere

DOWNWIND GROUND LEVEL

CONCENTRATIONS AND QUANTITIES FROM STACK DISCHARGES

LOCATIONS	DATE	DISCHARGE VOLUME (m ³ /day)	^u Nat (Ci/m ³)	^u Nat (Ci/month)	Ra-226 (Ci/m ³)	Ra-226 (Ci/month)	Th-230 (Ci/m ³)	Th-230 (Ci/month)
Y.C. Filter	1/1980	42600.01	2.89 E-13	2.95 E-7				
	2/1980	42600.01	2.32 E-13	2.46 E-7				
	3/1980	42615.10	4.58 E-13	4.68 E-7				
	4/1980	42600.01	2.56 E-13	2.16 E-7				
	5/1980	42600.01	1.19 E-13	1.13 E-7				
	6/1980	52149.87	1.43 E-13	1.52 E-7	5.64 E-16	6.01 E-10	2.76 E-16	2.94 E-10
Y.C. Scrubber	1/1980	49868.64	1.10 E-13	1.32 E-7				
	2/1980	46874.16	2.18 E-14	2.54 E-8				
	3/1980	52076.06	2.77 E-14	3.46 E-8				
	4/1980	42914.83	2.12 E-14	1.80 E-8				
	5/1980	49868.64	2.09 E-14	2.32 E-8				
	6/1980	45114.51	1.15 E-14	1.06 E-8	1.43 E-16	1.32 E-10	2.01 E-17	1.85 E-11
Crusher	1/1980	278536.78	1.11 E-13	4.47 E-7				
	2/1980	278536.78	5.29 E-14	2.16 E-7				
	3/1980	272818.20	7.80 E-14	3.33 E-7				
	4/1980	299951.99	8.10 E-14	3.45 E-7				
	5/1980	334160.70	2.81 E-14	1.24 E-7				
	6/1980	294667.72	1.43 E-13	5.65 E-7	1.64 E-15	6.48 E-9	1.94 E-15	7.67 E-9
Transfer Tower	1/1980	105021.96	4.14 E-16	6.29 E-10				
	2/1980	102619.61	2.20 E-16	3.31 E-10				
	3/1980	101827.66	1.76 E-15	2.81 E-9				
	4/1980	101819.10	6.52 E-16	9.43 E-10				
	5/1980	101819.10	2.36 E-16	3.18 E-10				
	6/1980	99352.72	5.63 E-15	7.51 E-9	4.61 E-16	6.15 E-10	1.08 E-17	1.44 E-11
Headframe	1/1980	303397.08	5.25 E-15	2.30 E-8				
	2/1980	354255.86	3.68 E-15	1.91 E-8				
	3/1980	351931.40	1.09 E-15	6.01 E-9				
	4/1980	356619.47	1.00 E-15	5.07 E-9				
	5/1980	347118.95	3.93 E-16	1.81 E-9				
	6/1980	337414.54	3.24 E-15	1.47 E-8	1.60 E-16	4.02 E-12	7.17 E-17	3.25 E-10

8008080346

M. D. Lawton 7/29/80
M. D. Lawton

RJO ALGOM CORPORATION
P. O. BOX 610
MOAB, UTAH 84532

REPORT OF AMBIENT AIR SAMPLES

U-NAT X 10⁻¹² uc/ml

DATE	NORTH POINT	SOUTH POINT	LASAL TOWN	LASAL JUNCTION	REDD RANCH	WILCOX RANCH
January 1980	.025	.031				
February 1980	.033	.025				
March 1980	.054	.045	.0053	.0040	.0083	.0053
April 1980	.259	.084				
May 1980	.075	.060				
June 1980	.109	.069	.008	.007	.013	.009

RADIUM-226 (pCi/m³)

DATE	NORTH POINT	SOUTH POINT
June 1980	.005	.007

THORIUM-230 (pCi/m³)

DATE	NORTH POINT	SOUTH POINT
June 1980	.007	.007

Walter