

**ATOMICS INTERNATIONAL**  
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 FROM: G. Borg ADDRESS: 779 88  
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 SUBJECT: Quarterly report of activity released to atmosphere.

The following report is a tabulation of radioactive gases released to the atmosphere from SRE decay hold-up tanks. This report covers the period from July 1, 1959 to October 1, 1959.

Sample date	Activity pc/cc	Release Rate (CF/HR)	Total Activity pc **
7/1/59	$5.0 \times 10^{-6}$	145	$3.8 \times 10^2$
7/1/59	$7.0 \times 10^{-6}$	145	$5.3 \times 10^2$
7/3/59	$2.5 \times 10^{-6}$	145	$1.9 \times 10^2$
7/9/59	$2.0 \times 10^{-6}$	145	$1.5 \times 10^2$
7/10/59	$1.8 \times 10^{-6}$	145	$1.4 \times 10^2$
7/11/59	$2.2 \times 10^{-6}$	145	$1.7 \times 10^2$
7/20/59	$5.0 \times 10^{-2}$	4	$3.8 \times 10^6$
7/25/59	$1.4 \times 10^{-2}$	27	$1.1 \times 10^6$
*7/25/59	$8.0 \times 10^{-2}$	6	$6.3 \times 10^6$
8/22/59	$7.0 \times 10^{-2}$	4	$5.3 \times 10^6$
9/16/59	$6.5 \times 10^{-2}$	4	$4.9 \times 10^6$
9/17/59	$7.0 \times 10^{-2}$	12	$5.3 \times 10^6$
9/18/59	$2.0 \times 10^{-3}$	145	$1.5 \times 10^5$
9/20/59	$5.0 \times 10^{-3}$	145	$3.8 \times 10^5$
9/21/59	$1.3 \times 10^{-3}$	65	$1.0 \times 10^5$
9/21/59	$1.3 \times 10^{-3}$	145	$1.0 \times 10^5$
9/21/59	$1.1 \times 10^{-3}$	145	$8.4 \times 10^4$
9/22/59	$2.0 \times 10^{-3}$	145	$1.5 \times 10^5$
9/27/59	$1.8 \times 10^{-3}$	145	$1.4 \times 10^5$
9/27/59	$1.8 \times 10^{-3}$	145	$1.4 \times 10^5$
9/28/59	$1.8 \times 10^{-3}$	145	$1.4 \times 10^5$
9/30/59	$7.8 \times 10^{-6}$	15	$5.8 \times 10^2$
9/30/59	$6.0 \times 10^{-6}$	15	$4.6 \times 10^2$

\*Reason for gap between 7/25/59 to 8/22/59 to 9/16/59 is due to slow release rate.

\*\*In each instance of venting the total volume released was approximately  $7.6 \times 10^7$  cc.

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