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TITLE  
**HISTORICAL ANNUAL PRODUCTION QUANTITIES**

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# UNC NUCLEAR INDUSTRIES



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January 7, 1985

Department of Energy  
Richland Operations Office  
Richland, Washington

Gentlemen:

Attention: Mr. R. J. Light, Director  
Financial Management Division

## HISTORICAL ANNUAL REACTOR PRODUCTION QUANTITIES

Attached you will find the historical annual reactor production quantities for the Hanford Site as requested by Mr. M. J. Wicks of your staff. This data was obtained from old monthly production reports stored at the Battelle Technical Library. The quantities for defense and non-defense plutonium and for tritium are shown in Table 1 for calendar years 1945 - 1971, and in Table 2 for fiscal years 1972 - 1981.

This information was summarized in graphical form in UNI-1993, "Hanford Production Levels from 1945 to Present", (Secret). A copy of this document can be obtained through UNC's document control center.

Questions concerning the production costs for this period should be directed to Messrs G. F. Bailey or W. G. Hoogendoorn of my staff.

We trust that this information will assist you in responding to the request from DOE-HQ.

Very truly yours,

Phillip G. Harms  
Director, Planning and Communications  
Operations Division

AMN:jen

### Attachments

cc: DOE-RL PE Rasmussen (w/o attachment)  
GJ Miskho (w/o attachment)  
MJ Wicks (w/attachment)

RHQ JO Honeyman (w/attachment)

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Table 1: ANNUAL PRODUCTION QUANTITIES FOR THE HANFORD SITE  
CALENDAR YEARS 1945 - 1971

<u>Calendar Year</u>	<u>Plutonium Production, kg</u>		<u>Tritium Production, gms</u>
	<u>Defense</u>	<u>Non-Defense</u>	
1945	98	0	0
1946	171	0	0
1947	109	0	0
1948	156	0	0
1949	170	0	2.5
1950	317	0	40
1951	455	0	161
1952	678	0	260
1953	975	0	518
1954	929	0	991
1955	1371	0	145
1956	2539	0	81
1957	2990	0	76
1958	3284	0	41
1959	4045	0	212
1960	4265	0	382
1961	4347	0	293
1962	4136	0	398
1963	4671	0	1895
1964	4983	0	2318
1965	4120	0	796
1966	3147	0	0
1967	2652	1285	1662
1968	1394	1646	2336
1969	756	1599	135
1970	880	644	0
1971	93	262	90

- Note: 1. From 1945 through 1949, the plutonium production is the quantity that has been through the final chemical processing. After that, the values reflect the plutonium discharged from the reactors (but not yet processed).
2. From 1949 through 1957, the tritium production is the quantity extracted from the exposed targets. After that time, the value is the tritium discharged from the reactors (but not yet extracted).

Table 2: ANNUAL PRODUCTION QUANTITIES FOR THE HANFORD SITEFISCAL YEARS 1972 - 1981

<u>Fiscal Year</u>	<u>Non-Defense Plutonium Production kg</u>
1972	414
1973	- 673
1974	607
1975	557
1976	429
1977	560
1978	559
1979	544
1980	412
1981	196

Note: During this time, neither defense plutonium or tritium was produced at Hanford.