

SUMMARY OF MERCURY IN URINE AND MERCURY IN AIR
DATA OBTAINED DURING THE YEARS 1970 AND 1971
FOR EMPLOYEES WORKING IN THE MERCURY CELL AREA

JOB CLASS	# OF EMPLOYEES IN JOB CLASS WHO HAVE BEEN EXAMINED	# OF EMPLOYEES SHOWING URINE MERCURY VALUES (MICROGRAMS PER LITER)		# OF EMPLOYEES EXPOSED TO MERCURY IN AIR LEVELS GREATER THAN 50 MICROGRAMS PER CUBIC METER OF AIR
		<u>LESS THAN</u> 250	<u>GREATER THAN</u> 250	
1	9	9	0	0
2	8	8	0	0
3	12	12	0	9
4	5	5	0	3
5	6	6	0	0
6	17	10	7	15
7	19	16	3	5
8	13	13	0	0
9	3	3	0	0
TOTAL	- 92	82	10	32

1 BB 0000091 1

MERCURY CELL AREA JOB CLASS DESIGNATIONS

The following descriptions were used to designate job classes for personnel assigned to perform work in the Mercury Cell Area. Job classes, based on these definitions, were used in the Mercury Physical Examination and the Mercury in Urine Surveys completed in January 1972.

<u>Job Class</u>	<u>Description</u>
1 <i>OFFICE</i>	Supervision - Personnel associated with the operation and maintenance of the Mercury Cell Plant. Primary areas of exposure were considered to be offices, control room, lab and locker room. However, some duties do require working in the other areas of the plant.
2 <i>OFFICE</i>	Lead Operator - Normally performs duties in the Mercury Cell control room. Other duties do require work to be performed in the cell room and outside areas (minor).
3 <i>CELL ROOM</i>	Cell Operator - (Includes No. 2 Cell Auxiliary Operator) Primary area of exposure is the cell room with minor exposure in control room.
4 <i>OUTSIDE</i>	No. 1 Cell Auxiliary Operator - Performs approximately half of duties in cell room and the other half in outside areas.
5 <i>OUTSIDE</i>	Outside Operators - (Brine and Area Utility Operators) Basically performs duties in outside areas with minor duties in control room and lab.
6 <i>CELL REPAIR</i>	Cell Renewal - Performs maintenance type work on mercury cells within cell room with minor duties in the cell repair shop.
7 <i>CELL REPAIR</i>	Cell Builders - Performs maintenance type work on mercury cells in the cell repair shop with minor duties in outside areas.
8 <i>OUTSIDE</i>	Maintenance Personnel - Performs maintenance work primarily in outside areas with minor duties in the cell room.
9	Transfers - Indicates that the individual was working in another department at the time the tests were conducted.

MERCURY IN AIR DATA

(Monthly Averages of Air Analyses in mg/m³)

<u>Date</u>	<u>Cell Repair Shop</u>	<u>Cell Room</u>	<u>Offices*</u>	<u>Outside Area</u>
January 1970	.050	.033	.049	.010
February	.020	.015	.013	.010
March	.021	.020	.011	.013
April	.032	.016	.010	.010
May	.011	.015	.010	.010
June	.026	.035	.010	.015
July	.071	.059	.010	.010
August	.102	.086	.010	.012
September	.138	.056	.019	.020
October	.189	.049	.015	.017
November	.048	.041	.013	.010
December	.035	.052	.015	.010
January 1971	.023	.032	.010	.010
February	.042	.033	.039	.010
March	.048	.050	.012	.010
April	.044	.056	.013	.013
May	.048	.069	.011	.010
June	.045	.070	.014	.015
July	.041	.064	.013	.010
August	No test	No test	No test	No test
September	.028	.043	.009	.005
October	.035	.039	.012	.006
November	.028	.040	.009	.007
December	.023	.027	.012	.010

56.54 - Aug 1036

2.7.017

* Includes control room, lab, locker room and offices.

Note: Data used to compile mercury cell area's personnel exposure to mercury in air. Based on the urine analysis date the previous three month's average of mercury in air concentrations for the specific area of work was used to determine the exposure indicated in the survey.

AV - ALL VALUES SINCE
LAST URINE EXAM:

BB 0000093