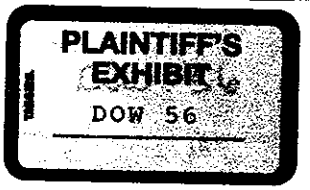
F. H. SZCZEPANSKI

ASBESTOS



THE CANCER HAZARD POSED BY ASBESTOS IS NO LONGER DISPUTED BY ANYONE.

ST0291233

ASBESTOS IS ONE OF THE 18 CHEMICALS SPECIFICALLY REGULATED BY O.S.H.A. VINYL CHLORIDE IS ANOTHER ONE THAT DOW HAS CONCERN FOR. WE MANUFACTURE VINYL CHLORIDE, BUT WE USE ASBESTO. WE DO NOT MANUFACTURE IT.

THERE ARE 3000 ASBESTOS PRODUCTS MANUFACTURED, AND OF COURSE THEY ARE VERY USEFUL BUT THEY PRESENT A HEALTH HAZARD. THE DANGER VARIES DEPENDING UPON :

① HOW MANY FIBERS ARE IN THE AIR.

② SOME PEOPLE ARE MORE LIKELY TO DEVELOP ASBESTOS - RELATED DISEASES THAN OTHERS.

③ THE VERY FINE, SHORT FIBERS ARE MOST HIGHLY CANCER CAUSING.

④ OTHER POLLUTANTS SUCH AS CIGARETTE SMOKE CAN INCREASE THE RISK OF DISEASE.

ASBESTOS-RELATED DISEASES DEVELOPE OVER A LONG PERIOD OF TIME - SYMPTOMS MAY FIRST APPEAR 30 YRS AFTER EXPOSURE.

ST0291234

HERE ARE THE OSHA STANDARDS FOR AREAS CONTAINING CERTAIN LEVELS OF ASBESTOS DUST

① THE AVERAGE CONCENTRATION LEVELS FOR AN 8 HR DAY SHALL NOT EXCEED 2 ASBESTOS FIBERS PER CUBIC CENTIMETER OF AIR.

(2) PEAK CONCENTRATION LEVEL ALLOWED SHALL BE 10 FIBERS PER CUBIC CENTIMETER OF AIR FOR NO MORE THAN 15 MINUTES AN HOUR.

HOW BIG ARE THESE FIBERS ?

THE DEFINATION " THEY HAVE TO BE 5 MICRONS LONG " & THE STANDARD SAYS THE LEVEL MUST BE BELOW 2 FIBERS IN A CUBIC CENTIMETER.

HOW BIG IS A MICRON ?

HOW BIG IS A CUBIC CENTIMETER?:

IT WOULD TAKE 25,400 MICRONS TO EQUAL AN INCH — AND WE ARE TALKIN ABOUT THESE ASBESTOS FIBERS BEING 5 MICRONS LONG AND THEY ARE FROM 1 TO 2 MICRONS THICK. (EXAMPLE)

DUST PARTICLES IN THE DESERT SAND IS FROM 2 TO 12 MICRONS

ST0291235

NO HUMAN HAIR VARIES BETWEEN 60 & 80 MICRONS IN DIAMETER.]

AND HOW BIG IS A CUBIC CENTIMETER? THERE ARE 16 CUBIC CENTIMETERS IN A CUBIC INCH (1" x 1" x 1")

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SAMPLING

THE SAMPLING WE HAVE DONE HAS BEEN IN 2040 BUILDING ABOVE THE CEILING. THE READING WAS .34/C.C.

IN 2020 BLDG IN THE CONSTRUCTION AREA OF LABS 5+6 THE READINGS WERE:

1. A SAMPLE ON A MAN ABOVE THE CEILING VACUUMING - 1.5 FIBERS PER C/C.
2. THE AREA 1 FOOT BELOW THE CEILING TILE WHILE THE MAN WAS VACUUMING. WAS 1.3 FIBERS PER C/C.

3. IN THE NORTH AREA SEPERATED BY FILM SHEATING FROM THE VACUUM AREA, WHILE VACUUMING WAS .25 FIBERS/C.C.

4. IN THE AREA OF THE VACUUM CLEANER THE READING WAS .8 FIBERS/C.C.

THESE ARE THE RULES WE HAVE ESTABLISHED AT THE DOW CENTER FOR DOW EMPLOYEES & CONTRACTOR:

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