

GIANT STACK FLOW RATES

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was question
this data.

WESTERN RESEARCH 1990 1.3 to $1.5 \times 10^6 \text{ m}^3/\text{day}$
GIANT 1981 $1.44 \text{ m}^3/\text{day}$
GIANT 1991 $0.9 \text{ m}^3/\text{day}$
GIANT 1985 $1.9 \times 10^6 \text{ m}^3/\text{day}$

More rationale
for more
stack
samples
per year
in order
to confirm
this

AVERAGE USE $1.5 \times 10^6 \text{ m}^3/\text{day}$

1979 GAZETTE I REGULATION
WAS $20 \text{ ~~kg/m}^3~~ \text{ mg/m}^3$

AT REGULATED CONCENTRATION
AND AVERAGE FLOW RATE, LOADING IS

$$20 \times 1.5 = 30 \text{ kg/day} \\ = 11,000 \text{ kg/year}$$

IN NPRI, GIANT CLAIMED 3000 kg/year .
ASSUMING THE FLOW RATE HASN'T CHANGED, THAT
TRANSLATES TO A CONCENTRATION OF

$$\frac{3000 \text{ kg}}{\text{yr}} \times \frac{1 \text{ day}}{365 \text{ day}}$$

$$3000 \div 365 = 8.2 \text{ kg/day} \\ = 5.5 \text{ ~~kg/m}^3~~ \text{ mg/m}^3$$

DILCON REPORT GAVE 1993 EMISSIONS
AT $0.306 \text{ g/sec} = 26.4 \text{ kg/day}$
 $= 9650 \text{ kg/year}$