

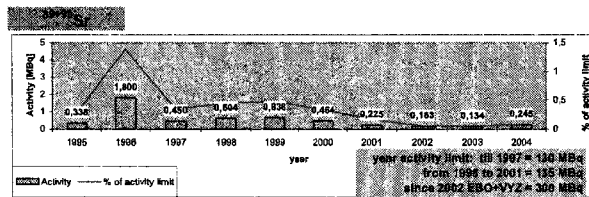
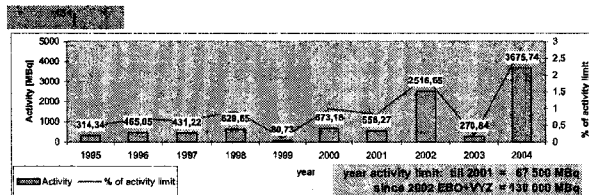
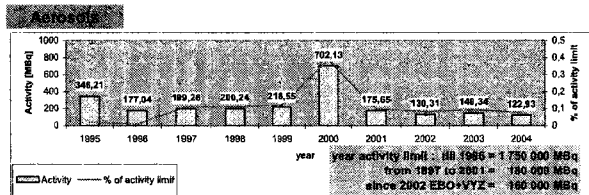
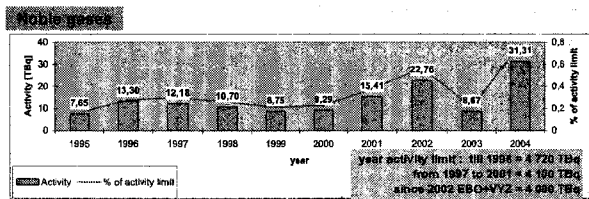
# NPP Bohunice - radiation protection indicators for last 10 years.

*Tibor Rapant, NPP Jaslovské Bohunice*

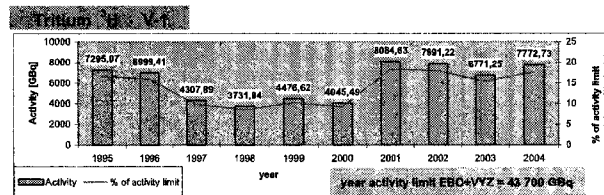
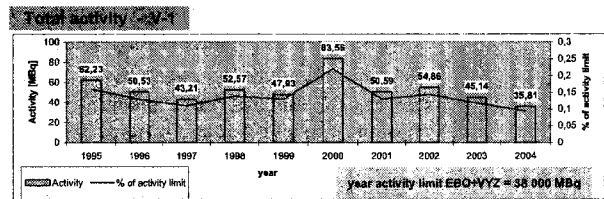
Selected radiation protection indicators of NPP Bohunice operation are published in poster - radioactive discharges to atmosphere and hydrosphere, personal doses, outage doses, maximum environmental doses. Limited parameters are also compared with authorized year limits.

## NPP V-1

### Gaseous discharges



### Liquid effluents



Note:

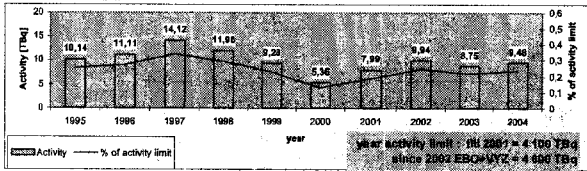
aerosols - 2000 - increase caused by 140-days GO and reconstruction of reactor no.1

noble gases, iodine <sup>131</sup>I - 2002, 2004 - increase caused by fuel element leakage of reactor no.2

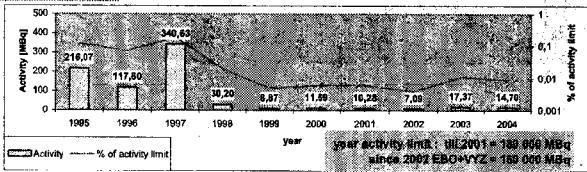
# NPP V-2

## Gaseous discharges

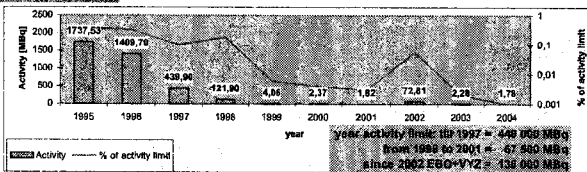
**Radio gases**



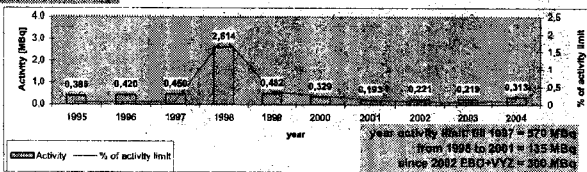
**Aerosols**



**I-131**

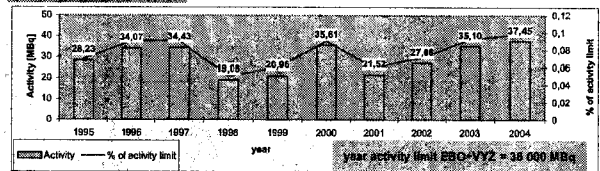


**Strontium**

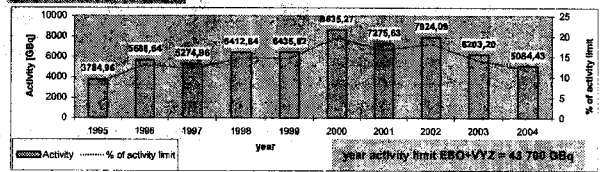


## Liquid effluents

**Radio gases**



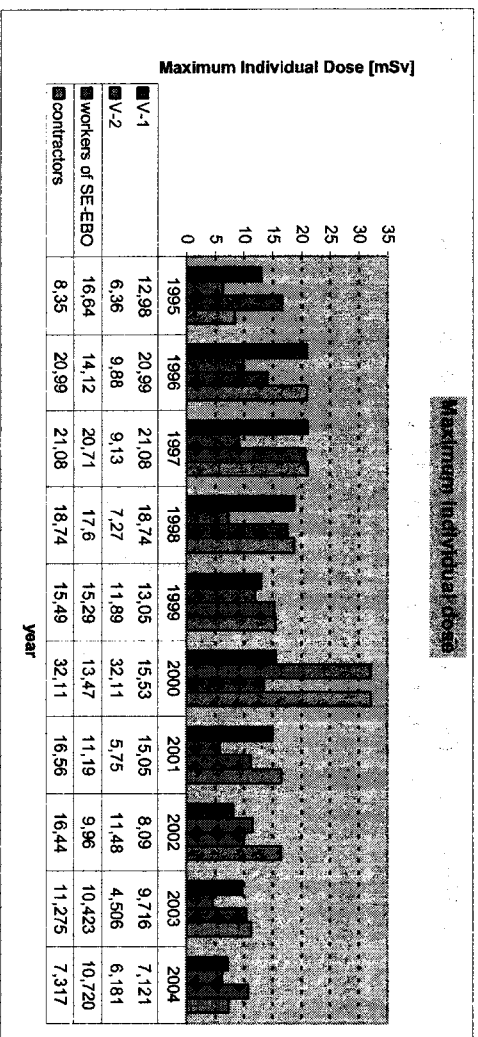
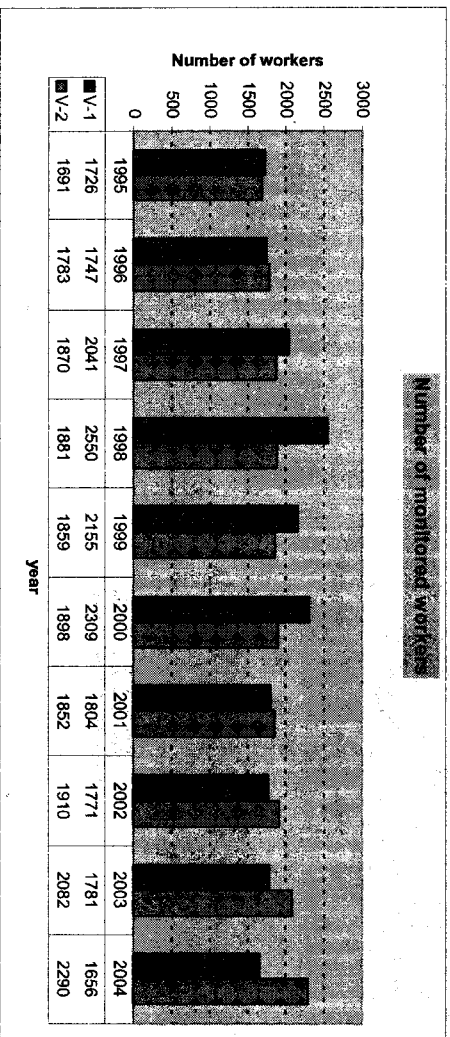
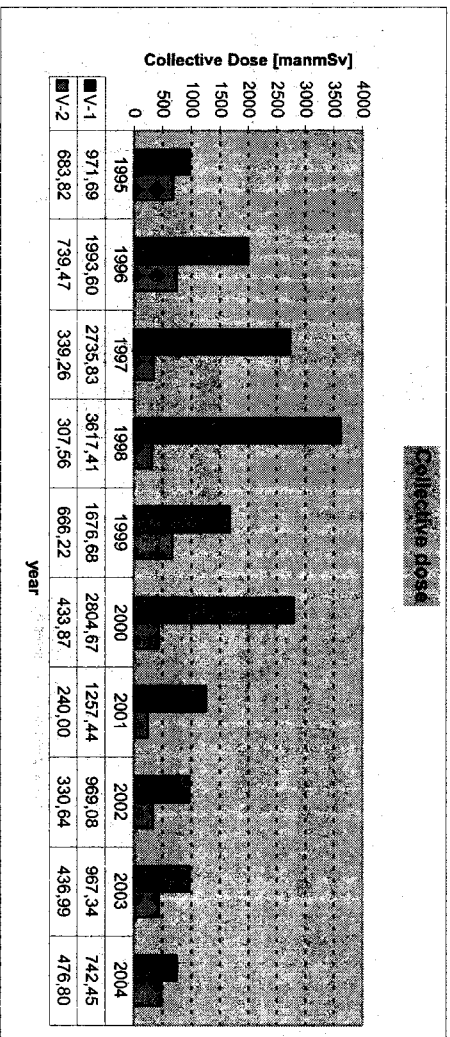
**Aerosols**



Note:

- aerosols, iodine <sup>131</sup>I - 1995-1997 - aerosols and iodine discharges were measured by device Kalina with high MDA
- 1998 - from february 1998 discharges were laboratory gamaspectrometry analyzed which gave rise to very low MDA
- iodine <sup>131</sup>I - 2002 - increase caused by fuel element leakage of reactor no.3
- strontium - 1998 - increase measured during GO of reactor no.4

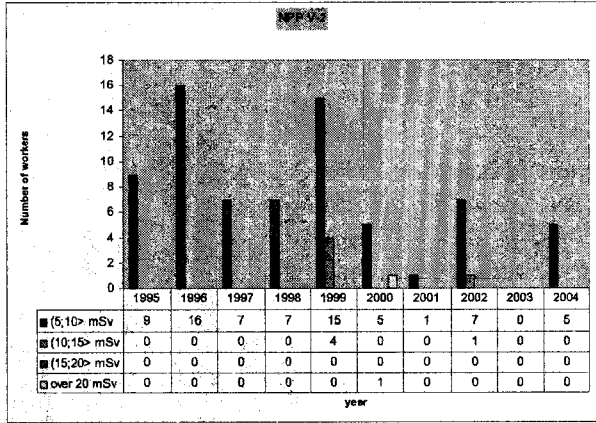
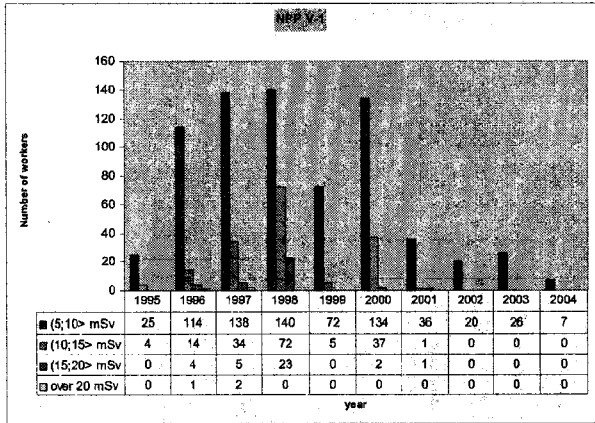
## Doses at NPP Bohunice



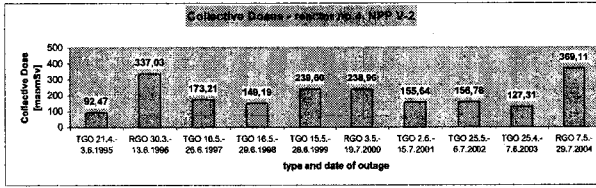
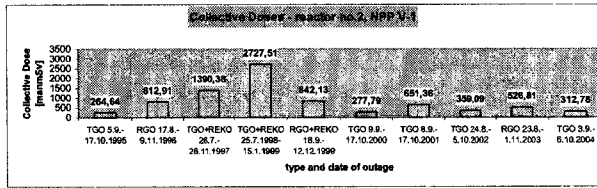
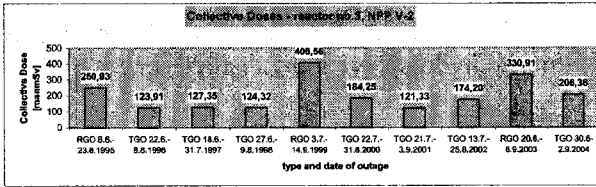
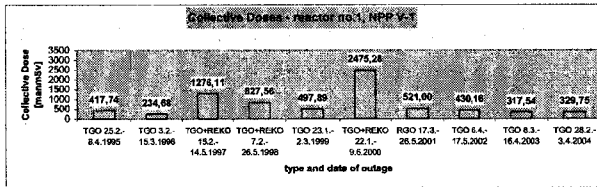
Note:

1997 - 2000 - reconstruction of reactors no.1 and no.2 gave rise to increase of number of monitored workers and collective dose on NPP V-1.

### Dose distribution at NPP Bohunice



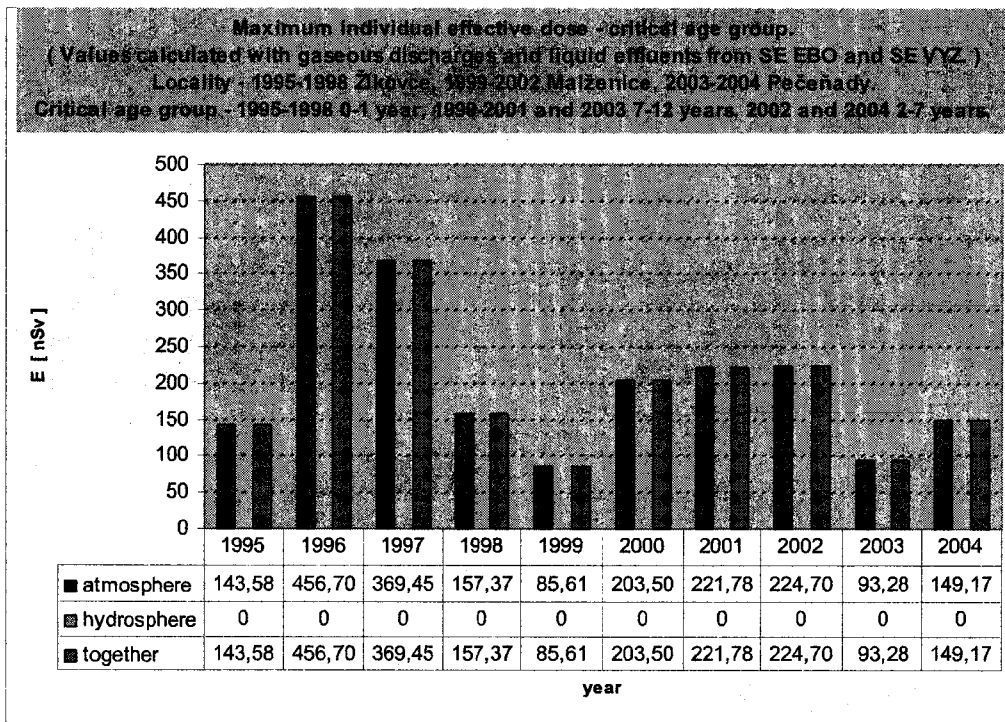
### Doses at NPP Bohunice - outages



Note:

- TGO - standard outage
- RGO - extended outage
- REKO - reconstruction

## Environmental doses at NPP Bohunice



Note:

Since 1995 all liquid effluents from NPP are released by pipe system Sokoman to river Váh which gave rise to zero hydrosphere individual dose near NPP.