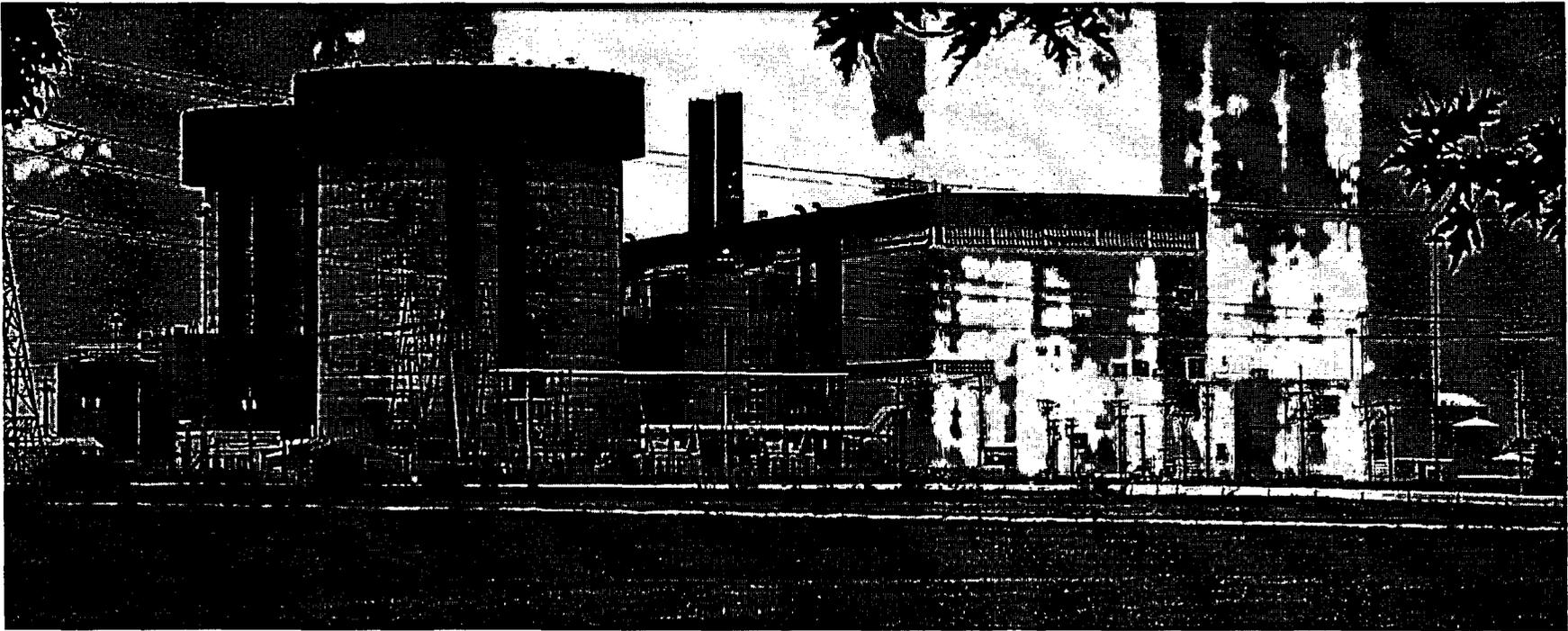


Braidwood Generating Station



Groundwater Update

D-162

Current Condition

- Detected higher than normal concentration of tritium on site property.
- After further investigation we discovered that some tritium had migrated with the groundwater just North of our property line.
- To understand the issue we have drilled over 60 sample wells
- No threat to public health or safety

Background

- Underground pipe used to discharge water with tritium into Kankakee River
- Discharges are permitted under federal regulations and are part of normal plant operations
- Levels never exceeded NRC limit

What is tritium?

- Tritium is an isotope of hydrogen that occurs in small quantities in nature and is also produced during reactor operations
- It is a part of water and emits very low levels of radiation
 - Higher concentration in water used in nuclear reactors
 - Tritium is also used to manufacture exit signs, aircraft dials, luminous paints, wristwatches and home smoke detectors

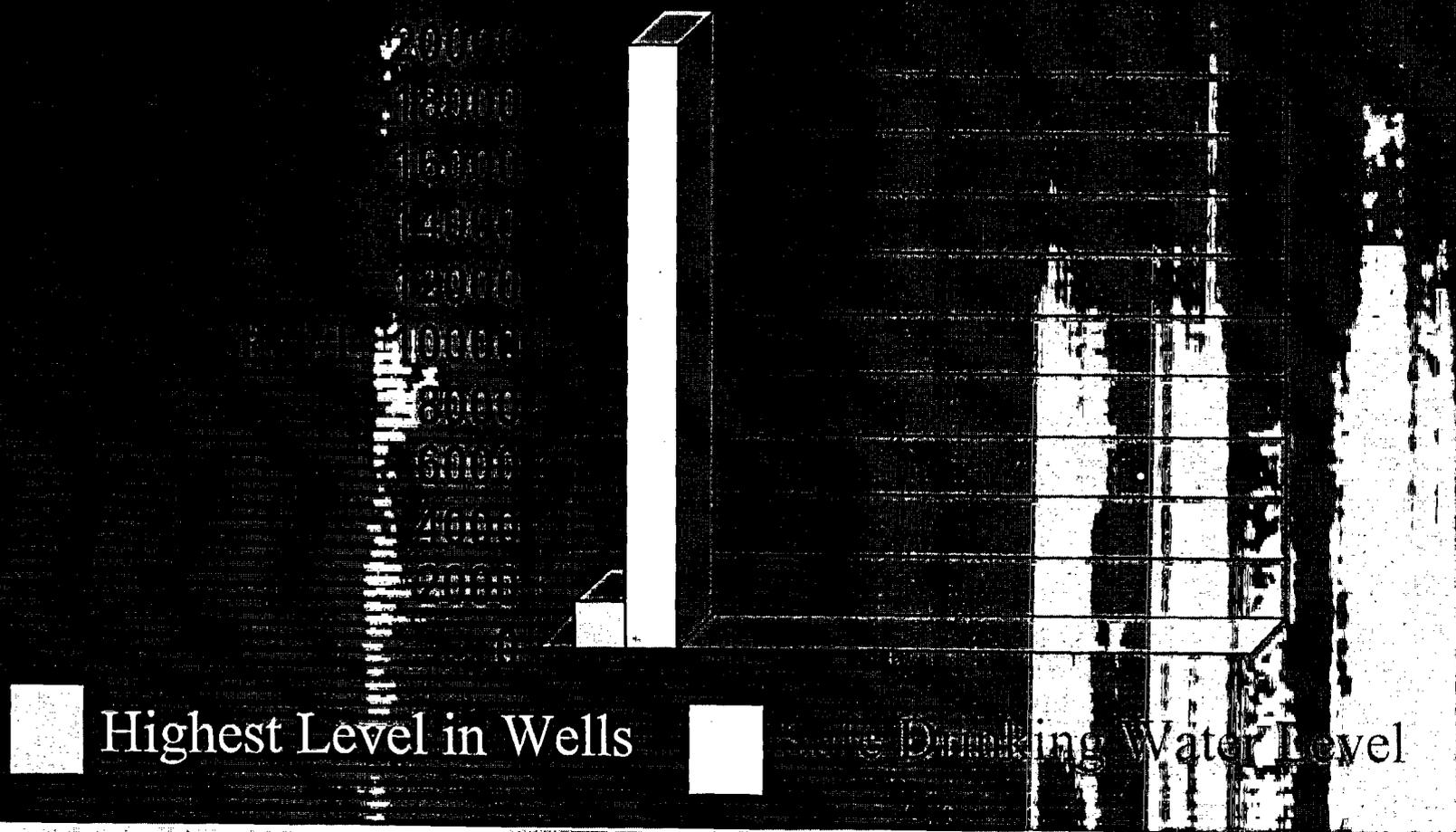
How It Was Discovered

- Enhanced monitoring program
 - test wells drilled along path of underground pipe
 - found in shallow ground water on north side of plant boundary
- Elevated levels forced extended sampling
- Potential Causes:
 - broken valve leaked tritiated water in 1998 and 2000
 - leaked from underground pipe (no tritium in pipe today)

Exelon Action

- Tested 12 personal drinking wells
 - 11 were at background. One contained very low levels of tritium.
 - Samples analyzed by independent lab (Environmental Inc.). Samples also given to the state, Nuclear Regulatory Commission and Illinois Environmental Protection Agency
- Safe drinking water standard is $\leq 20,000$ pCi/L
 - Highest level detected in drinking wells was 1524 pCi/L

Tritium Levels



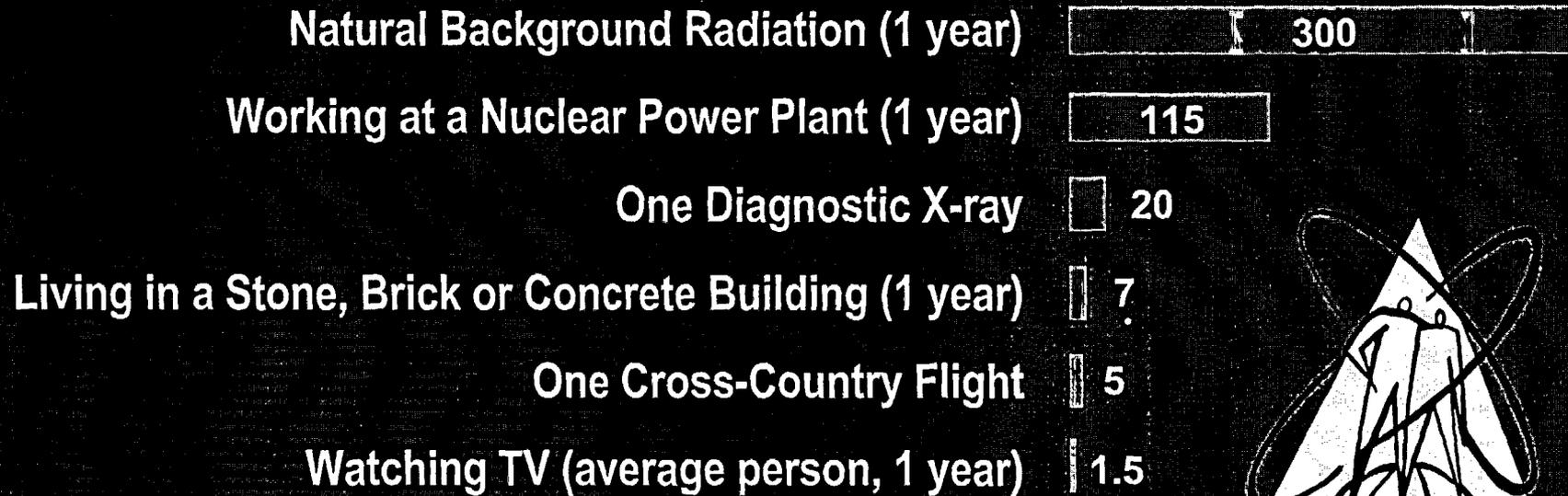
Highest Level in Wells

Drinking Water Level

12/12/05

Groundwater Update

Radiation Exposure From Different Activities (in millirem)



To Further Put These Numbers in Context:

- The Environmental Protection Agency equates 20,000 pCi/L to 4 mrem of radiation in a year
- The highest well result would be less than 0.3 mrem over a year
- The EPA estimates the average person receives 1.5 mrem a year watching TV

Forward Actions

- Continue well sampling to fully characterize elevated tritium levels
- Work with state agencies to formulate a remediation plan
- Conduct pipe integrity tests to ensure there are no current leaks
- Pipe integrity: acoustical testing

Conclusions

- **These tritium levels are a tiny fraction of any health/safety limits.**
- **We are committed to the health and safety of the public, and our ongoing monitoring program will ensure no future effects from additional tritium migration.**
- **We are committed to keeping you informed and addressing your concerns**

Questions?