



Supplementary Information

Presentation from PEACE-NB

In the Matter of the

**New Brunswick Power Corporation,
Point Lepreau Nuclear Generating Station**

Application for the renewal of NB Power's
licence for the Point Lepreau Nuclear
Generating Station

**Commission Public Hearing
Part 2**

May 10 to 12, 2022

Renseignements supplémentaires

Présentation de PEACE-NB

À l'égard de la

**Société d'Énergie du Nouveau-Brunswick,
centrale nucléaire de Point Lepreau**

Demande de renouvellement du permis
d'Énergie NB pour la centrale nucléaire de
Point Lepreau

**Audience publique de la Commission
Partie 2**

10 au 12 mai 2022

Community Concerns Continue

PLNGS Relicensing Comments

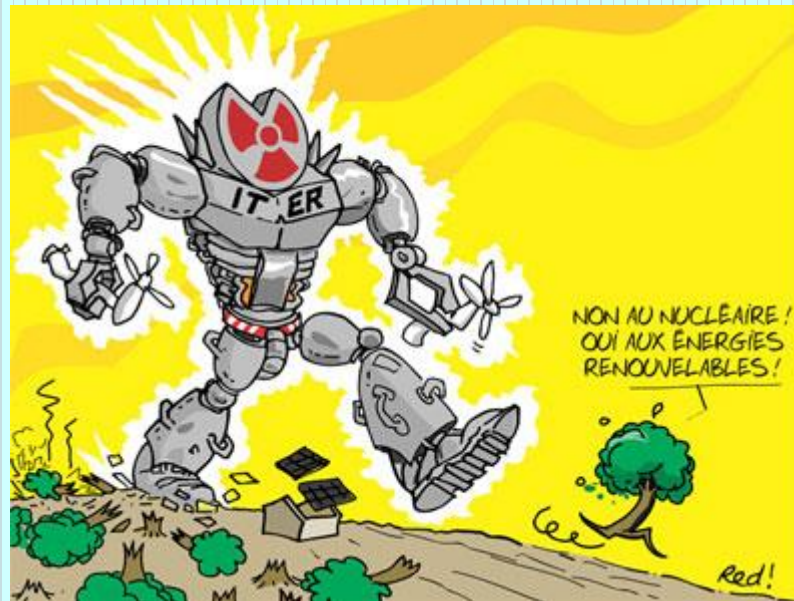
May 11 2022

Presented by Sharon Murphy

PEACE NB chair

General Concern

- **We believe that NB Power's application does NOT meet the requirements of Reg DOC-1.1.3, License Application Guide: License to operate a nuclear power plant**



Historically....not in our name

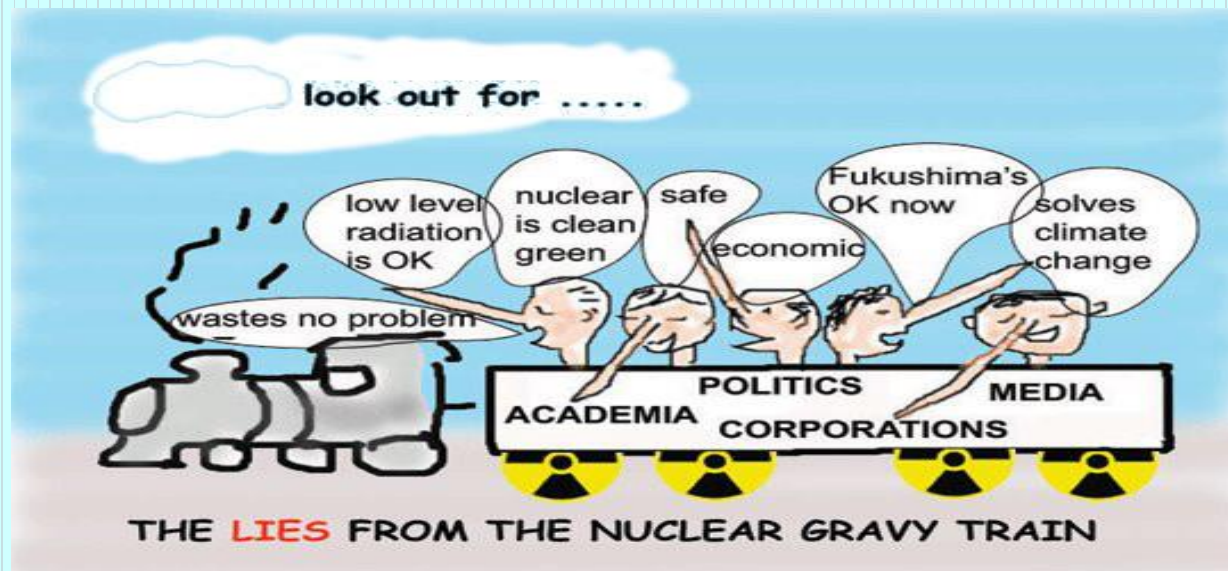
- **PEACE-NB has always been concerned that NB Power is not taking climate change impacts on the PLNGS site seriously**
- **PEACE-NB has brought up the issues surrounding Saint John's lack of awareness of what to do in an emergency many times over the years**
- **PEACE-NB does not believe that the cost and dangers associated with decommissioning have ever been adequately studied**

Historically....not in our name

- **NB Power has heard our real life concerns surrounding nuclear power and external (or internal) political instability in previous hearings yet done nothing**
- **Seismic dangers in the immediate vicinity have been shown to be a scientific possibility for years**
- **Study methodology is questionable, at best**
- **Environmental monitoring shows years of tritium and other radioactive substances in our ecosystem**

Historical Concerns

- PEACE-NB are not content that any of our concerns have been adequately addressed over the years - and therefore are again participating in the relicensing hearing



We do NOT conclude the following:

From the Technical assessment to the CNSC staff committee member Doc:

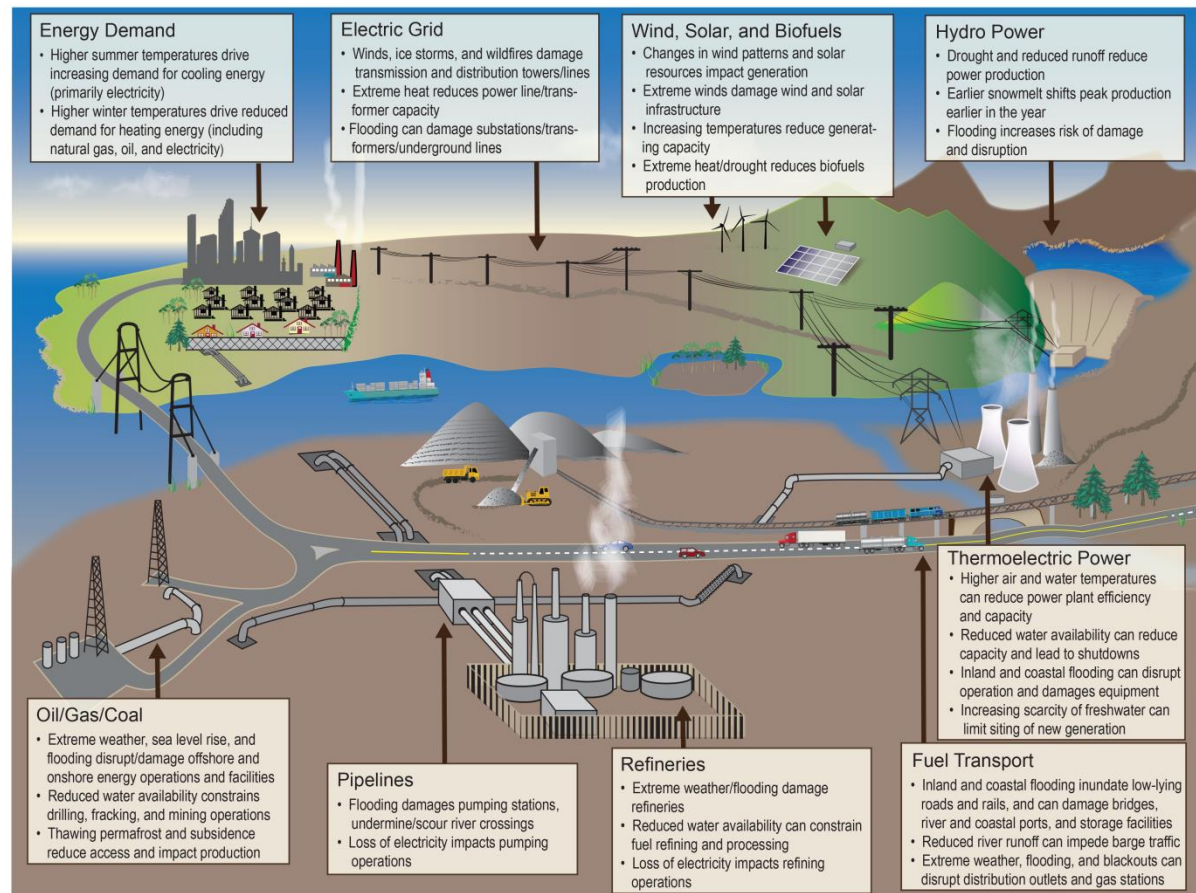
- **Impact of Covid 19 continues to be minimal-(the community is aware that nonvaccinated operators and staff were fired)**
- **Sufficient number of qualified staff are maintained (see above)**
- **Safety analyses were updated and considered aging (see below)**
- **Components, structures and systems remain fit for service (not without doing the studies)**
- **Provisions were made to protect workers, the public and the environment (minimally using opinion not science)**
- **Above and beyond our historical concerns which we have new and relevant questions about, we have new issues, including the ridiculous length of the license requested**

CLIMATE CHANGE

Climate change is real. NB Power must now foresee that the climate is changing. Where are the studies proving that severe wind, ice, flooding and sea level rise will not impede plant operations? This is Turkey Point in 2014.



From the 4th American Climate Assessment The *Climate Science Special Report* (2017)



More science, Less opinion

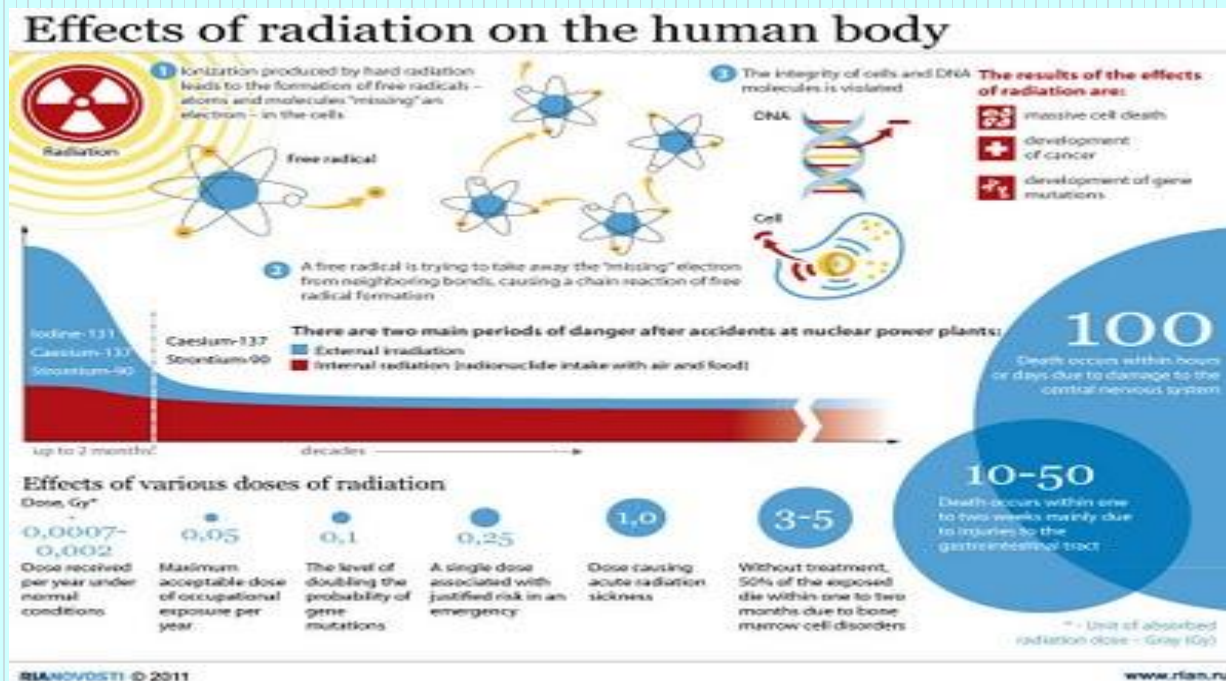
- We want an updated full environmental risk assessment, including the full impact of climate change, be ordered of NB Power
- Is climate even dealt with in a small way in the probabilistic safety review?
- How else will we get the answers to our questions and concerns in this regard?
- Without such an assessment, we are left with "judgement" and "opinion" which is not science based

Environmental Monitoring

- Our IEMP results ...are consistent with the results submitted by NB Power, supporting our assessment that the licensee's environmental protection program is effective. The results add to the body of evidence that people and the environment in the vicinity of the Point Lepreau nuclear generating site are protected and that there are **no anticipated health impacts**.
- No Health impact assessments would be proven with community studies of human health

Monitor us please.

- Prolonged exposure to fog?
- Plume fallout near Red Head?
- 30 plus years of humans living in the PLNGS vicinity of no health studies. Why?

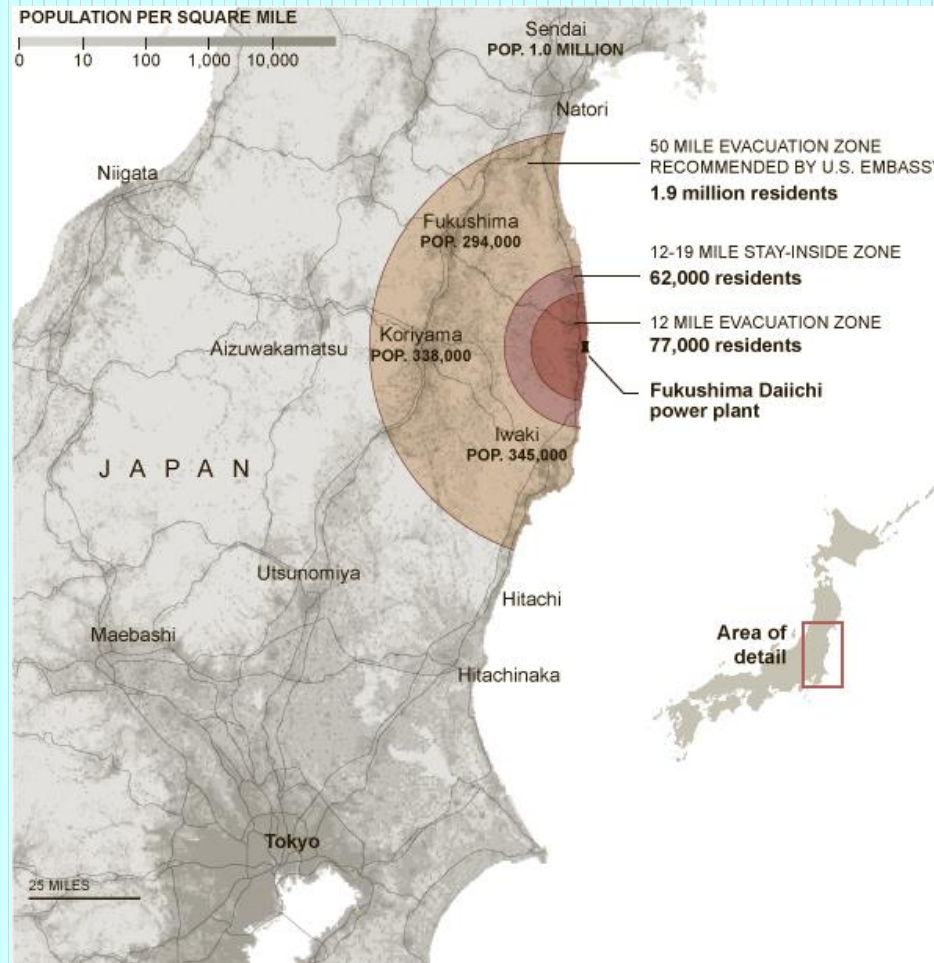


Emergency?

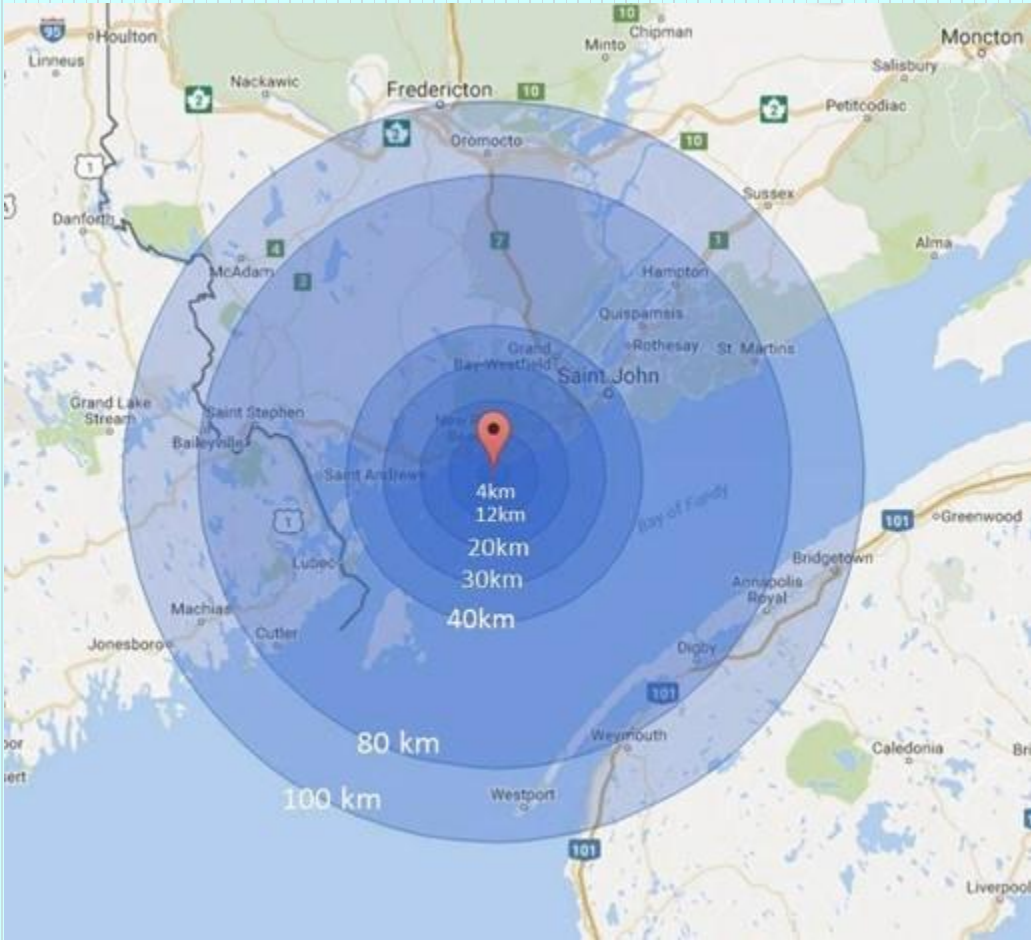
- In an informal survey of friends and family, no one knew what to do were a nuclear accident to happen.



After the Fukushima disaster in Japan, the Nuclear Regulatory Commission recommends Americans living within 50 miles (80 KM) of the plant to evacuate.



WHY NOT HERE?



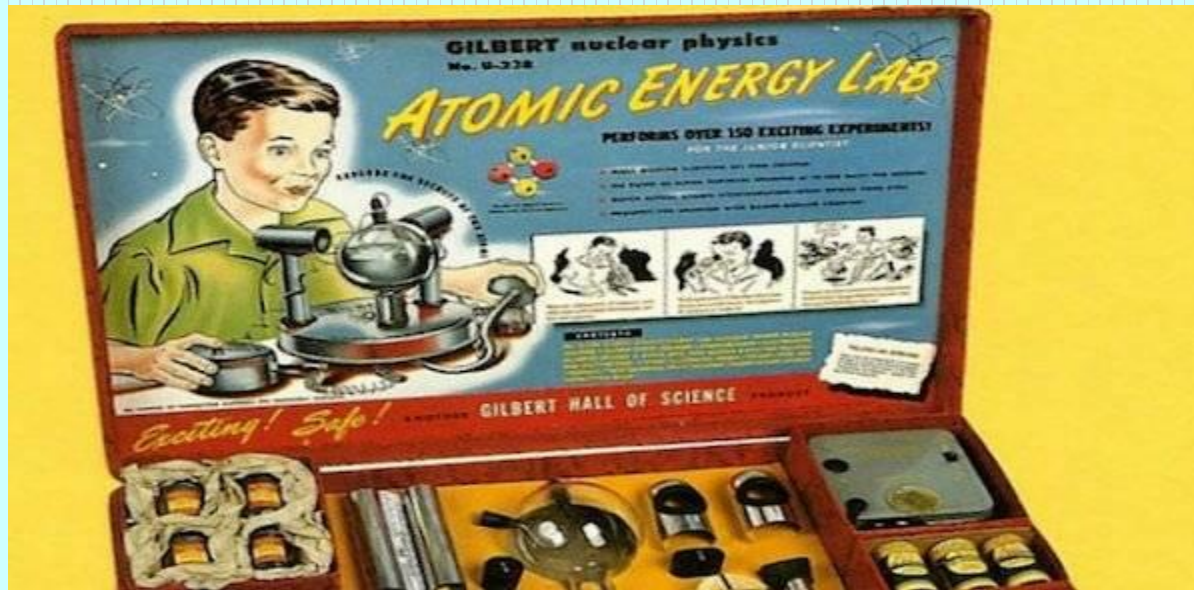
Earthquakes are still Likely

- Ken Burke a seismologist hired by the Conservation Council of New Brunswick pointed to Passamaquoddy Bay, where a 6.0 magnitude earthquake struck somewhere in the area in 1904
- He said the next major quake for southern New Brunswick would likely happen in the same place
- "It could happen tomorrow. It could not happen for 100 years. We seismologists don't have that kind of capability today. We can't predict earthquakes," Burke said
- He recommended more study

- We have read the Status Update on Seismic-Related Work and the Summary of Evaluation of Updated Seismic Hazards and are left with more questions than answers
- We asked so many questions in our written submission and do look forward to the answers



License Renewal Length



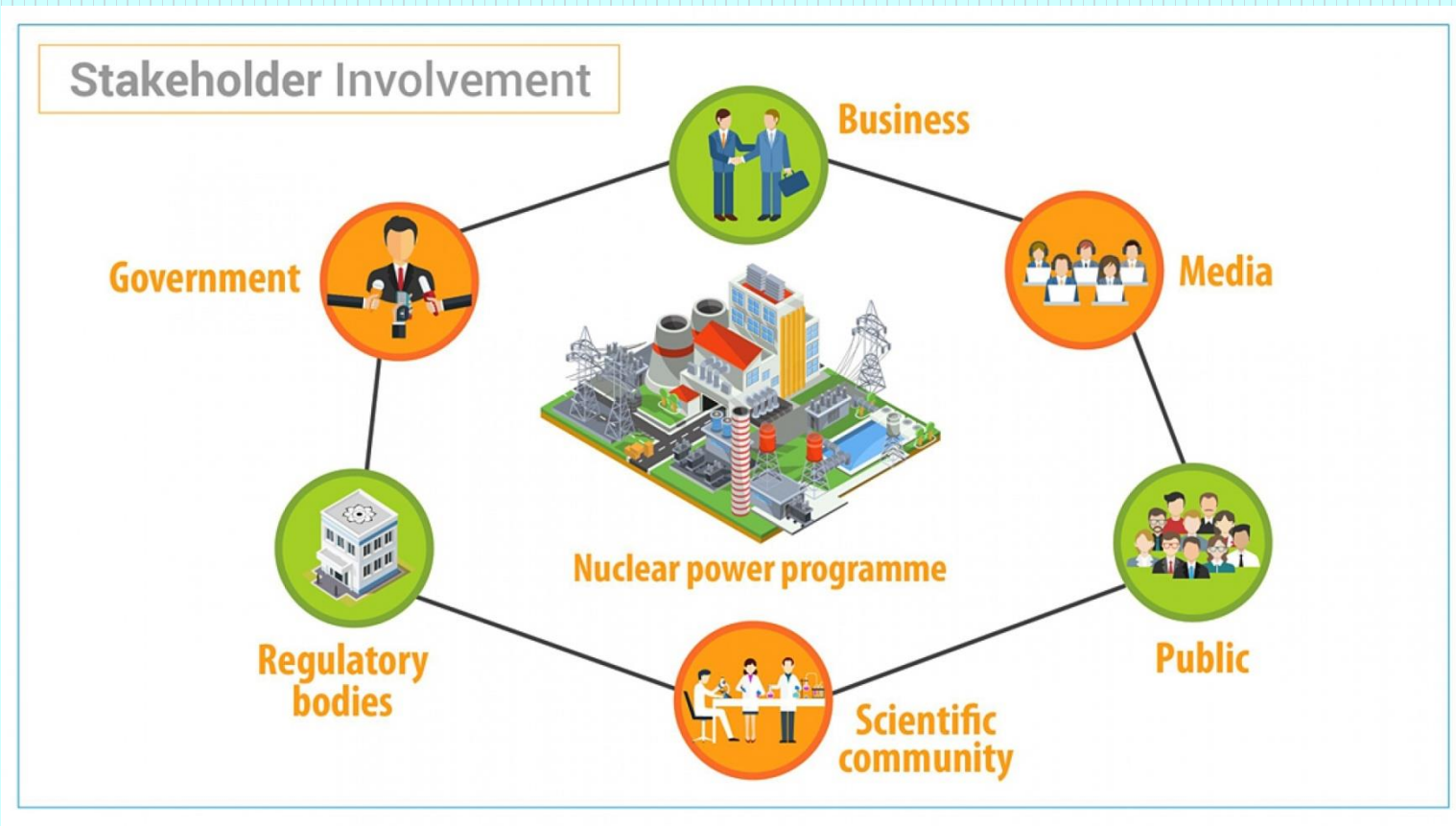
We believe that the license renewal length requested is as ridiculous as this kids toy set. Is it a joke?

We do not believe that the site will be without significant change over the next few years with the introduction of the experimental and unknown SMNRs onsite.



- **Plutonium in the airshed?**
- **Extra waste onsite?**
- **No major changes in the onsite operations?**
- **SMNR experiments aren't major?**

**Without public input and scrutiny for a quarter of a century, who will ask the unpopular questions that do not fall within the shiny and well marketed nuclear industry line that is promoted and sold by the federal government?
(This is an IAEA slide)**



Political Instability



Who Knew?

- We have seen recently, in Ukraine, citizens who knew that the largest nuclear plant in Europe needed to be protected from a Russian military attack. Indeed, the entire community surrounding the plant went to the site and blocked it with their own bodies. This act of bravery would not happen at Lepreau if the public is (purposefully) ignorant of what is even going on at the site.

Regarding an accident or attack, it also follows that an uninformed public will not be prepared for an evacuation or other life saving actions if it has been a generation since any members of that public were engaged in the licensing of the facility.



Human Health

- It appears to us that NB power would rather hire friendly "experts" to judge whether or not the plant is safe rather than spend the time and money to actually prove that assumption.
- Is it unreasonable to expect human health studies from the get go, public scrutiny every few years, and that our citizens in Saint John get the information and medication needed in case of a nuclear release?

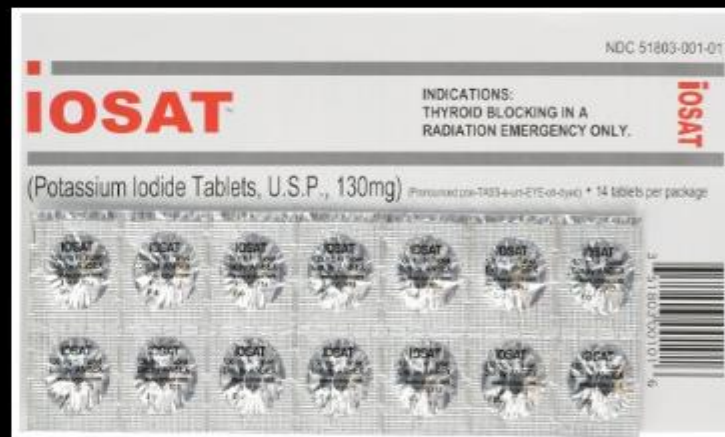
Potassium Iodide????

- Citizens dont keep Potassium Iodide at home.
- Should we protect ourselves if you wont?

Should You Keep Potassium Iodide in Your Emergency Kit?



apartmentprepper.com



Fairy Tales are for Children

Old plants are being shut down across the globe because they're NOT economical.



We are a very small group of people in the province and should not be participating in a dying industry that we can not in our wildest dreams afford.