

Primeau, Josée (BAPE)**241****DQ102****Objet:** FERC- Modelling and Design Criteria-Thermal Radiation-LNG FacilitiesProjet d'implantation du terminal méthanier
Rabaska et des infrastructures connexes

Lévis

6211-04-004

Dear Ms McKinley,

I pursuance of our of our telephone conversation this morning, I am currently presiding a Joint Federal-Provincial Assessment Panel regarding the LNG terminal project Rabaska, proposed for the Quebec City region on the south shore of the Saint-Lawrence River. We would highly appreciate it if you would be kind enough to convey the following questions to the right recipient(s) within FERC's technical and scientific staff for an answer at their earliest convenience.

The first question is related to the design criteria accepted and used by FERC in the area of evaluating thermal radiation from LNG pool fires, and determining the exclusion distances based on them. In case of a breach resulting in an LNG spill on water, the initial size of the spill, reflected in its "diameter" and referred to in our analysis as the "initial pool", is its largest, as the dimensions and volume of the spill quickly diminish due to evaporative effects, attaining thereby a smaller, and more sustained, size referred to in our analysis as the "equilibrium pool". In modelling the thermal radiation effects for design and siting purposes, does FERC require the use of the dimensions of the "initial pool", or the "equilibrium pool" to determine the size of the area of exposure within a particular thermal flux isopleth? And in a related vein, have there been any LNG facilities in the U.S that were evaluated, authorised or denied on the basis of using the "initial pool" radiative characteristics, as short as their duration might be, as a design or authorisation criterion as it pertains to the public's potential exposure to thermal radiation?

The second question is related to the proper parameters used in characterising and evaluating the breach size in case of the rupture, accidental or deliberate, of an LNG tank or reservoir. When evaluating the relative impacts of the doubling or tripling of the breach size, does FERC require the doubling or tripling of the breach's characteristic diameter, or of its surface area?

We would be grateful to receive answers to these questions at your earliest convenience, and thank you for your courtesy.

Qussai Samak**Membre****Président de la commission d'examen conjoint du projet Rabaska****Bureau d'audiences publiques sur l'environnement**