REGIONAL ASSESSMENT OF OFFSHORE OIL AND GAS EXPLORATORY DRILLING EAST OF NEWFOUNDLAND AND LABRADOR

Technical Advisory Group (TAG) Session on Cumulative Effects September 13, 2019 QUESTIONS AND ITEMS FOR DISCUSSION

PARTICIPANT INPUT FORM

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1) Possible sources of cumulative effects

a) How should the inherently dynamic nature of the marine environment, including the continued influence of climate change and other such factors, be considered and addressed in the RA? Possible future scenarios of exploratory drilling as progressively more sites are explored must be assessed under future scenarios of climate change. The RA might consider cumulative effects under aspect rum of O exploration scenarios and @ climate scenarios. With this, the "worst case scenario" should be reported clearly and should inform decision-making. Building scenarios that include dynamic environments and future scenarios will require an appropriate timeline in the RA to be conducted appropriately, in high guarry, and transparently to inform evidence - based deusion - making.

b) What type and level of future exploratory drilling should be assumed in the Study Area for the purposes of the

cumulative effects assessment, and how should this be defined and approached (e.g., possibly through definition of various "scenarios" of future activity levels / intensities / distributions upon which to base the

assessment)?

if cumulative effects includes "past, present, and foreseeable actions"; all phases of exploratory chilling must be included - this includes any seismic activity required for drilling. The effects of seismic may very well be significant considering cumulative effects on habitat destruction (e.g., effects to the auditory environment). Scenarios of cumulative effects for each phase/action required for drilling should be incorporated in the RA throughout the study region. Future scenarios should also be assessed as increasingly more aniling sites are explored, as effects likely accumulate over through more drilling sites are explored, as effects likely accumulate over through more drilling, larger effects in elosystems.

(c) What other types of human activities are affecting the marine environment in the Study Area, and are likely to have the most potential to result in cumulative effects in combination with offshore exploratory drilling?

Cumulative effects within and between offshore energy-development activities. Other important activities may include Asherres, shipping Arransport, and potential future inclusings. An important priority should be assessing cumulative effects of existing and tovesteable future oil and gas activities on both the immediate environment (study region) and for freed effects (climate change impacts). Effects of international industries beyond the 200 nM are not neglible—the environment and effects to it do not have at domestic boundants!

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2) Potential cumulative effects and their management

a) What factors and processes influence whether (and to what degree) the effects of individual projects and activities in the Study Area may overlap or otherwise interact to result in cumulative effects?

Might consider a framework similar to the Ocean Health Index, considering states, pressures, resilience spatial and temporal overlap of activities, but also overlap of effects as they accumulate, diffuse, redistribute in the ecosystem through time.

www.oceanhealthindex.org

b) Are there particular environmental effects that are more likely than others to behave "cumulatively" in the Study Area? Are there certain environmental components that are more likely to be affected or are more sensitive to such cumulative effects?

within-industry cumulative effects across activities, time, space (e.g., seismic impacts, habitatelesmuction, noist pollution, discharge and convonic leakage). Complete habitat may be move likely affected by cumulative effects, including the soundscape, benthic environments, nument and food aveal ability.

Are there existing regulatory, planning or other mechanisms that help to ensure an adequate "degree of separation" between individual activities and their environmental effects in the Study Area?

The RA committee should be careful to avoid separating effects of activities by time and space. Given the interconnected nature of manne ecosystems and the lossing effects of activities at multiple time scales, I'm nesitant that regulatory mechanisms could reasonably provide an "adequate degree of separation". More likely, multiple effects will accumulate and accelerate over time all compate by accelerate over time

d) What recommendations could the Committee consider making in its report around how cumulative effects might be better managed through existing, enhanced or potentially new regulatory and planning processes?

All cumulative effects assessments should be considered under future climate change scenarios and should not temper the impacts of climate change to both ecological and social systems (local and fartised). Managing amulative effects must cross departments, agencies, and indusmes to be effective in the long term. Management should priorite the precautimany approach when CEA information is missing.

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3) Do you have any other input or recommendations that you would like to provide to the Committee on this topic?

The wide sweeping scope of the RA to progress multiple exploration sites must be considered as an additional cumulative stressor (from all sites into the future) in an already distressed ecosystem, under climate change. Doing this approprietly and vansparently in the RA will require an appropriate timeline, likely beyond "fall 2019".

All comments received will be considered public and may be posted to the Canadian Impact Assessment Registry. For more information on the Canadian Impact Assessment Registry Terms of Use and Submission Policy, please consult https://iaac-aeic.gc.ca/050/evaluations/introduction?culture=en-CA#innovation . For more information on the Agency's privacy policies, consult the Protection?culture=en-CA