ATTACHMENT 2 Information Requirements on the Environmental Impact Statement Addendum for the Addition of Exploration Licence EL 1134 to the Eastern Newfoundland Offshore Exploration Drilling Project

ID	Project Effects Link to CEAA 2012	Reference to EIS guidelines	Reference to EIS	Context and Rationale	Specific Question/ Request for Information
INFORI	MATION REQUIREMENTS				
ACCIDE	ENTS AND MALFUNCTIONS				
IR-92	5(1)(a)(i) Fish and Fish Habitat 5(1)(a)(ii) Aquatic Species	Part 2, Section 6.6.1. Effects of potential accidents or malfunctions	Page 180, Section 7.1.1 Modelling Approach, Table 7.1 Page 181, Section 7.1.2 Model results	 The description of modelling approach in the EIS Addendum and related appendix did not address the following: Trajectory modelling was developed for an unmitigated spill using Ben Nevis crude oil as a surrogate; however, in the original EIS, Bay du Nord crude oil was used for spill trajectory modelling in adjacent EL 1135. There is no rationale / supporting information provided for use of Ben Nevis crude oil for spill trajectory modelling in EL 1134. The release rate used for modelled spill scenarios is 37,000 barrels per day for EL 1134. However, the release rate in the modelled scenario for EL 1135 in the original EIS is 156,000 barrels per day. There is no supporting information provided for use of a release rate of approximately four times less than that used in the original EIS. It is noted that this may relate to the different properties of the surrogate oil used, or the difference in water depth; however, no specific supporting information was 	Provide rationale and supporting information for the use of Ben Nevis crude oil in spill trajectory modelling given that Bay du Nord was used in the original EIS in adjacent EL 1135; the selection of a significantly lower release rate for spill modelling for EL 1134, as compared to the release rate used for adjacent EL 1135. Include a discussion of water depth and its effect on blow-out rate and spill trajectory modelling assumptions, as required by the EIS Guidelines; and the selection of deterministic modelling scenarios based solely on shoreline oiling stochastic results.

	Eastern Nova Scotia and Sable Island, as shown in Figure 7.3 of the EIS	modelling results for EL 1135 and El 1137) for the
	Addendum, is not discussed. The potential for shoreline oiling in these	applicability of previous effect analysis and
	areas is not consistently discussed in	predictions presented in the EIS.
	the effects analysis on valued components; while it is mentioned in	the Els.
	the analysis for marine and migratory birds and Indigenous communities	Update the effects analysis, mitigation and follow-up, as
	and activities, it is absent from the	applicable, for effects of
	analysis for remaining valued components.	accidental events on all valued components, incorporating the
	It is noted that Section 4.2.3.5 of the	above-noted considerations. In addition:
	EIS Addendum states that critical	 with respect to the marine
	habitat has not been identified for marine mammals and sea turtles	mammal and sea turtles, a description of marine
	species at risk within or adjacent to EL 1134 or elsewhere in the project	mammal species at risk and their critical habitat in the
	area. However, spill trajectory	Gully Marine Protected
	modelling results in Section 7.1.2 and Appendix B indicate a small	Area ,Sable Island, Haldimand Canyon and
	possibility that oil could reach the Gully, Sable Island, Haldimand	Shortland Canyon that could be impacted by an
	Canyon, and Shortland Canyon areas.	accidental event, and
	Section 7 of the EIS Addendum does not mention marine mammals and	assess associated effects, as applicable.
	their critical habitat in these areas that could be affected by accidents	 With respect to fish and fish habitat, include
	or malfunctions.	analysis of effects of the
	Anticipated hydrocarbon exposure	predicted hydrocarbon concentrations to which
	for fish	marine fish may be exposed in the area
	The effects analysis does not contain	affected by a spill.
	a discussion of the predicted hydrocarbon concentrations that	
	marine fish may be exposed to in the	

Time for spills to reach shoreline and associated degree of weathering The EIS Addendum states that the minimum time predicted for the oil to reach shore could be 8 - 27 days and that the oil is expected to be highly weathered. Based on figure 7.6 on page 191, which shows the mass balance plots of representative worst case scenarios for 30 and 113 days subsurface blowouts, the percentage of oil degraded after 8 days appears to be less than five percent. It is not clear from the IE IS Addendum what percentage of oil oil will reach shore in eight days and what percentage of oil will reach shore in eight days and what percentage of oil oil yet so shoreline contact and the highly weathered state of oil by the time it potentially reaches the shoreline. IR-94 All valued components Part 2, Section 6.6.1. Page 190, Table The effects of potential accidents or malfunctions 7.5 The effects analysis for most valued components throughout Section 7.2 The effects analysis for most valued components throughout Section 7.2 The effects analysis for most valued components throughout Section 7.2 The effects analysis for most valued components throughout Section 7.2 The effects analysis for most valued components throughout Section 7.2 The effects analysis for most valued components throughout Section 7.2 The effects analysis for most valued components throughout Section 7.2 The effects analysis for most valued components throughout Section 7.2 The effects analysis for most valued components with the oil of the El 1134 section 7.3 The effects of potential accidents or malfunctions The effects of potential accidents or malfunctions The effects analysis for most valued components The effects of potential accidents or malfunctions The effects of potential accidents or malfunctions The effects of potential accidents or malfunctions The effects of potential accidents or most valued The effects of potential accidents or most valued The effects of potential accidents or most valued T				<u> </u>	area offeeted by a smill	
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volume 786,000 bbl) modelled for Exxon's EL 1137 had only 8.97% oil at surface at the end of the 45 day model run for the shoreline contact scenario. Comparison of 113 day release (160 day run) results for EL 1134 with other modelling results shows a similar pattern. Exxon's EL 1135 has a lower percentage at surface (4.68%) than EL 1134 (10.43%) at the end of the 160 day run for the shoreline contact scenario, despite the volume of the EL 1135 spill being four times larger than the EL 1134 spill. A twice-larger volume 113 day release at Equinor's EL 1142 predicted 0.55% of oil remaining at surface at the end of the 160 day run for the shoreline contact scenario, compared to 10.43% for EL 1134's
release at Equinor's EL 1142 predicted 0.55% of oil remaining at surface at the end of the 160 day run for the shoreline contact scenario,
Similarly, EL 1134 shows much larger areas of exceedance of several thresholds than for the EL1135, EL 1137, and EL 1142 releases of comparable duration but larger volumes.