



July 9, 2014

Mr. Darren Hicks
Canada Newfoundland and Labrador Offshore Petroleum Board
5th Floor, TD Building
140 Water St.
St. John's, NL
A1C 6H6

File No.: 354.21
**Environmental Assessment Report
Seismic Projects – Proposed Project
Changes**

Dear Mr. Hicks:

Enclosed please find an assessment of proposed changes to the Hibernia life of field seismic program titled *Environmental Assessment of HMDC's 2D/3D/4D Seismic Projects 2013-Life of Field Newfoundland Offshore Area: Proposed Changes to the Project July 2014* (LGL Project No. SA1207). As requested, a list of the changes is provided below;

- The primary change to the Project described in this document is the expansion of the original Study Area (see Figure 1.1 in the EA) to the west and south for the years 2015 and beyond so as to ensure inclusion of all Project activities including the deployment of streamers (Figure 1). The area labelled as the Project Area in Figure 1.1 of the EA is now labelled (see Figure 1 below) as the Life of Field (LOF) Seismic Survey Area. The Study Area and the Project Area now share the same boundary.
- In addition, the outer boundaries have been squared off to coincide with the inner block.
- To account for any future contractor upgrades in terms of streamer numbers and lengths, the streamer length is updated from 8,100 m to 10,000 m (approx.) and the numbers of streamers to a maximum of 16.
- Additional detail is provided on the OBS (Ocean Bottom Seismic)
- An undershoot vessel may be used in addition to the primary seismic vessel (section 2.2.6). The source parameters will be within that described in the EA for the primary source.

If you have any questions or require additional information please contact [REDACTED] at your convenience.

[REDACTED]
Environment Lead

Encl.

Cc [REDACTED]