

Lake Erie Connector (LEC) Commitments Tracking Table - Lake Erie LP

Canadian Commitments

Version 74 April 1-30, 2024

Updated: 26-Apr-24

LEGEND: = Completed
 [1] D = Design; PC = Pre-Construction; C = Construction; O = Operation; DEC = Decommissioning; ALL = All phases of the Project
 [2] APP = National Energy Board Application; IR = Information Request; SUP = Supplementary Evidence; FIL = Filing; EC = NEB Election Certificate
 EC-056 (June 26/17)

Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
					Document [2]	\$ or pg. reference	
1	The proposed Project and its connections to the PJM and IESO systems will be designed, constructed and operated in compliance with applicable NERC reliability standards or other applicable reliability standards, and will meet the requirements of NEB General Order MO-036-2012 titled "NEB General Order on Reliability Standards". [T]o the extent that the Project facilities are deemed to be Critical Infrastructure the facilities will be designed, constructed and operated to meet all applicable Critical Infrastructure Protection requirements as defined by NERC or other applicable standards authority.	ALL	LEC Project Team	In Progress	APP	\$4.3.7 \$4.3.9	
2	LEC will comply with all regulations in effect during construction, operation, and decommissioning.	ALL	LEC Project Team	Future Action	APP	\$6.3.1	
3	LEC will ensure contractors and their employees or subcontractors are qualified prior to beginning work and will inspect the contractor's work to ensure compliance with all regulatory requirements, and any additional commitments required under the terms and conditions of the NEB Application.	ALL	LEC Project Team	Future Action	APP	\$6.3.1.1	
4	Condition Compliance LEC shall comply with all of the conditions contained in this Certificate unless the Board otherwise directs.	ALL	LEC Project Team	In Progress	EC	Condition 1	
5	Implementation of all Commitments LEC shall implement or cause to be implemented all of the policies, practices, mitigative measures, recommendations, and procedures for the protection of the environment and promotion of safety referred to in its Application, or as otherwise agreed to in its related submissions.	ALL	LEC Project Team	In Progress	EC	Condition 3	
6	LEC shall cause the approved Project to be constructed, operated, and abandoned in accordance with the specifications, standards and other information referred to in its Application or as otherwise agreed to in its related submissions.	ALL	LEC Project Team	In Progress	EC	Condition 4	
7	Notification of Protection Modifications LEC shall seek approval from the Board of any proposed modification to the LEC electrical system before any modification is made.	ALL	LEC Project Team	As required	EC	Condition 7	
8	The Project team will continue to engage in discussions with Aboriginal groups and their respective communities throughout the Project, with varying degrees of engagement depending on the interests of potentially impacted Aboriginal groups and their respective consultation protocol requirements. LEC has committed to continued engagement with the Six Nations of the Grand River and the Mississaugas of the New Credit First Nation, to identify potentially beneficial employment and economic opportunities, where available. Updates on engagement activities will be provided throughout the regulatory process by way of supplementary filings.	ALL	LEC Project Team	In Progress	APP, IR	\$5.3.1 \$5.3.3 \$5.3.6 \$5.3.7 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15) IR 3.1c Response to IR 3 Attachment 1 (Jan 29/16)	Updates on consultation and engagement activities provided to the NEB on November 25, 2016 and July 6, 2018. Indigenous Engagement Updates provided to the CER on April 16, 2020, June 16, 2021, July 14, 2021, and April 19, 2022.
9	LEC will continue to engage with Crown agencies to assess how it can appropriately assist the Crown in carrying out its obligations.	ALL	LEC Project Team	In Progress	APP	\$5.3.1	
10	To date, no significant concerns regarding EMF have been received from the public. Should any comments or concerns be received, LEC will develop appropriate responses.	ALL	LEC Project Team	As required	IR	IR 4.10 (HC-04)	
11	LEC will purchase a Canadian property policy that will cover only Canadian assets and business income at limits and deductibles appropriate to the Project. These limits and deductibles have not yet been determined. No assets other than those related to LEC will be covered by this policy. It is expected that liability coverages for LEC (including any Directors and Officers) will be added to existing corporate policies, and the cost for these policies will be allocated to the Project.	ALL	LEC Project Team	Future Action	IR	IR 4.13b	
12	Acquisition required in advance of construction will be completed in advance of the scheduled start of construction, including receipt of the Land Use Permit from the Ministry of Natural Resources and Forestry (MNRF). Following completion of the installation of the underwater HVDC cable, the MNRF process for the long-term easement of the transmission line would be completed based on a survey of the 'as built' location of the cable.	ALL	LEC Project Team	In Progress	IR	IR 3.6a, b, d, e	
13	Permanent tenure on the Lake Erie lakebed for the underwater HVDC cable alignment will be sought in accordance with the MNRF land disposition process.	ALL	LEC Project Team	In Progress	APP	\$7.1.5	
14	As the PJM Facilities Study is not complete, PJM has not issued LEC the draft Interconnection Services Agreement (ISA). Under the PJM Tariff, the draft ISA will be issued after the Facilities Study is issued.	ALL	LEC Project Team	Future Action	IR	IR 4.15b	
15	The PJM Facilities Study has not been issued at this time but it is still expected to be issued in Q2 2016. Once it is issued, LEC will file it with the Board.	ALL	LEC Project Team	In Progress	IR	IR 4.15a	Filed with the NEB on August 19, 2019.
16	[I]n the event of an accident or malfunction, LEC will implement appropriate spills control measures as identified in the EPP.	ALL	LEC Project Team	As required	APP	\$6.2.1.2, p 6-28	
17	[A] Stage 4 excavation mitigation of developmental impacts will be carried out within the required area identified in the Stage 3 Archaeological Assessment. This work is scheduled to commence in the spring of 2016 and is anticipated to be complete and submitted to the Ontario Ministry of Tourism, Culture and Sport and the National Energy Board by September 30, 2016.	D	LEC Project Team	Complete	IR	IR 3.10a	
18	The Haldimand Converter Station will be designed in accordance with the applicable standards for electromagnetic compatibility limits and will not exceed the design criterion for interference levels.	D	LEC Project Team	In Progress	APP	\$4.2.5.5	
19	The Haldimand Converter Station will be designed with closed-cycle cooling systems for the on-site equipment for the maximum average daily 24 hour temperature per month.	D	LEC Project Team	In Progress	APP	\$6.2.1.1, p 6-26 App D, Table D-1	
20	Shielding (shield wires), grounding, insulation and surge arresters will be installed to protect the Project infrastructure from damage related to lightning strikes.	D	LEC Project Team	Future Action	APP	\$6.2.1.1, p 6-26 App D, Table D-1	
21	The Project will be designed to address potential for effects from atmospheric deposition.	D	LEC Project Team	In Progress	APP	\$6.2.1.1, p 6-26 App D, Table D-1	
22	The final location of the Terminal Station and the point of connection with the Nanticoke TS swLEChyard will be confirmed through discussions with OPG and Hydro One. If the location differs from the proposed location north of the Nanticoke TS swLEChyard, LEC will undertake additional studies as required.	D	LEC Project Team	In Progress	SUP	Supplementary Evidence Attachment 4 (Feb 26/16)	
23	Converter Station lighting design will avoid illuminating the woodland, so roosting bats will not be exposed to artificial light.	D	LEC Project Team	In Progress	IR	Response to IR 3A Attachment 2 (Mar 11/16)	
24	Building foundations on the Haldimand Converter Station site to be designed in accordance with the Preliminary Geotechnical Report for the Haldimand Converter Station.	D	LEC Project Team	In Progress	SUP	Supplementary Evidence Attachment 2 (June 24/16)	
25	Soil electrical resistivity testing is currently being completed. Based on information gathered from this testing an overall site grounding study will be prepared. That study is anticipated to be completed by early spring 2017.	D	LEC Project Team	In Progress	IR	IR 1.2f (Aug 4/15)	
26	LEC will use an emergency diesel generator that meets MOECC requirements.	D	LEC Project Team	Future Action	APP, IR	\$6.2.1.8, p 6-47 \$6.2.1.15, p 6-72 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
27	Drinking water for the Haldimand Converter Station will be hauled to the site and stored in a cistern.	D	LEC Project Team	Future Action	IR	IR 3.28	
28	The fibre optic cable will be approximately 35 mm in diameter with a weight of approximately 3.0 kg/m.	D	LEC Project Team	Future Action	IR	IR 5.3	
29	To reduce or eliminate EMF exposure, the Project will use an HVDC transmission system; shielding to minimize electric field emissions; and burying the cables in the lake sediment to minimize exposure.	D	LEC Project Team	Future Action	APP, IR	\$6.2.2.6, p 6-104 \$6.2.2.7, p 6-107 \$6.2.2.10, p 6-112 \$6.2.2.14, p 6-122 \$6.2.2.16, p 6-125 App D, Table D-1 App D, Table D-2 Response to IR 1&2 Attachment 3 (Sept 18/15)	
30	The [cable] burial depth will be determined during detailed design.	D	LEC Project Team	In Progress	IR	IR 5.2a	
31	The jet plow design will be finalized during detailed design of the Project.	D	LEC Project Team	In Progress	IR	IR 5.4a	
32	Jet plow procedures for installing the cable and for cable approach/landing with the jet plow will be confirmed during detailed design.	D	LEC Project Team	In Progress	IR	IR 5.4b	
33	The fuel storage tanks will be compliant with all applicable regulations.	D; C	LEC Project Team	Future Action	APP	\$4.2.2.2	
34	The foundations for the Haldimand Converter Station and Terminal Station will be constructed in accordance with local and provincial building code requirements, which are in compliance with the National Building Code of Canada.	D; C	LEC Project Team	Future Action	IR	IR 7.5b	
35	The HVDC cable system will be protected by high-speed protection systems located at the two converter stations. The 500 kV AC cable system and interconnection facilities will be protected by high-speed protection systems located at the Haldimand Converter Station and the Nanticoke TS swLEChyard and will be designed in accordance with the requirements of Hydro One.	D	LEC Project Team	In Progress	APP	\$4.2.5.5	

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36	LEC will develop and apply for approval of a private sewage system designed to meet municipal requirements and applicable codes.	D	LEC Project Team	In Progress	APP, IR	§6.2.1.4, p 6-34 §6.2.1.4, p 6-37 §6.2.1.15, p 6-71 IR 4.10 (HC-03)	
37	The final detailed design for the Project is expected to be completed by early 2019 under the current Project schedule, and would be provided to the [National Energy] Board at that time.	D	LEC Project Team	In Progress	IR	IR 1.2i (Aug 4/15)	
38	The schematics of the converter's protection system, primary and back-up protective devices, circuit breakers, and metering devices will be addressed during detailed design. The final detailed design for the Project is expected to be completed by early 2019 under the current Project schedule, and will be provided to the [National Energy] Board at that time.	D	LEC Project Team	In Progress	IR	IR 1.2d (Aug 4/15)	
39	The type of protections and protected items on the DC side and protections unique for HVDC systems (converter) will be addressed as part of the detailed design which is expected to be completed by early 2019 under the current Project schedule, and will be provided to the [National Energy] Board at that time.	D	LEC Project Team	In Progress	IR	IR 1.2e (Aug 4/15)	
40	Ethylene glycol will be used as an antifreeze agent in the outdoor cooling circuit for the Haldimand Converter Station. The outdoor cooling circuit will be installed over an impermeable concrete slab with berms sufficiently high to contain possible ethylene glycol spills.	D; C	LEC Project Team	Future Action	IR	IR 4.10 (HC-02)	
41	The Long Point National Wildlife Area (NWA) is located approximately 7 km west of the closest part of the project, the HVDC underwater cable route. In the event that the location of the cable route or any project activities should change to occur within 5 km of the NWA, Environment and Climate Change Canada (ECCC) will be contacted as recommended.	D	LEC Project Team	As required	IR	IR 4.11 (ECCC 3)	
42	LEC has consulted with the MNRF regarding the Crown land disposition process. LEC will continue this engagement in support of the land disposition process which will proceed concurrently with the NEB Application process.	D	LEC Project Team	In Progress	APP	§4.1.1.2	
43	Lab results for borehole samples along the cable route will be provided to Environment and Climate Change Canada upon issuance of the results to the NEB.	D	LEC Project Team	Complete	IR	Response to IR 3 Attachment 2 (Jan 29/16)	
44	The requested draft Environmental Protection Plan will be prepared and submitted to the NEB by June 24, 2016.	D	LEC Project Team	Complete	IR	IR 3.20	
45	LEC will complete a quantitative assessment of the GHG emissions expected to result from the construction of the Lake Erie Connector including items as outlined in IR 7.15a, b and c.	D	LEC Project Team	In Progress	IR	IR 7.15	
46	The Horizontal Directional Drilling (HDD): Contingency Plan and Emergency Plan will be completed and included in the Environmental Protection Plan and provided to the NEB [by June 24, 2016].	D	LEC Project Team	Complete	IR	IR 3.25a	
47	The Inadvertent Returns Plan will be included in the Horizontal Directional Drilling (HDD): Contingency Plan and Emergency Plan and provided to the NEB [by June 24, 2016].	D	LEC Project Team	Complete	IR	IR 3.25b	
48	Details on monitoring that will be conducted during HDD activities, as well as stop work thresholds (if required) will be included in the Horizontal Directional Drilling (HDD): Contingency Plan and Emergency Plan and provided to the NEB [by June 24, 2016].	D	LEC Project Team	Complete	IR	IR 3.25c	
49	The final HDD drill path will be determined during detailed design and will be provided to the NEB when confirmed.	D	LEC Project Team	In Progress	IR	IR 7.1b.1	
50	The final HDD drill path, HDD entry and exit points, and drill angles will be confirmed during detailed design (anticipated in Q3 2017) and provided to the NEB when complete.	D	LEC Project Team	In Progress	IR	IR 7.1b.2	
51	The No-Drill Zone (minimum drill path cover by location) will be identified as part of detailed design and will be provided to the NEB when complete.	D	LEC Project Team	In Progress	IR	IR 7.1b.3	
52	The geotechnical analysis (Preliminary Geotechnical Report Lake Erie HVDC Project – Canadian Shore-line Horizontal Directional Drilling, Haldimand County, Ontario) submitted to the NEB as Attachment 4 on June 24, 2016 provides detailed soil stratigraphy in the area along the anticipated HDD trajectory and drill path. Additional detail on soil stratigraphy along the drill path will be provided to the NEB when the final drill path is determined during detailed design.	D	LEC Project Team	In Progress	IR	IR 7.1b.4	
53	A Navigation Safety Plan will be included as part of the Environmental Protection Plan (EPP) [and will be submitted to the NEB by June 24, 2016].	D	LEC Project Team	Complete	IR	IR 3.8b	
54	A detailed scheduled outage plan with description of methods, actions, operations, processes and a detailed activities program will be prepared during the detailed design phase of the project. Planned outages will be programmed to be as short as possible, depending on maintenance requirements and will be scheduled as far in advance as possible, taking all stakeholder needs into consideration. Pre-outage planning will be detailed and thorough, ensuring resources are adequately matched to workload.	D	LEC Project Team	In Progress	IR	Response to IR 1 Attachment 1 (Dec 18/15)	
55	Installation and test plans are part of the quality control monitoring system developed for the Project, and will be developed during detailed engineering.	D	LEC Project Team	In Progress	APP	§4.2.5.2	
56	Preliminary geotechnical results for the Canadian shoreline are under analysis and a report with this information will be submitted to the NEB when completed.	D	LEC Project Team	Complete	IR	IR 5.6a	
57	The Preliminary Geotechnical Report on the Canadian cable route in Haldimand County will be provided to the NEB on July 6, 2016.	D	LEC Project Team	Complete	SUP	Supplementary Evidence (Jun 24, 2016)	
58	Additional detailed geotechnical and groundwater monitoring investigations were carried out in 2015 and 2016 in the location of the proposed Haldimand Converter Station and along the cable routes to obtain more detailed information and to support design criteria. These reports will be provided to the NEB by June 24, 2016.	D	LEC Project Team	Complete	IR	IR 4.5 a, b.1, b.2, b.3 IR 4.7 a, b, c IR 4.8	
59	Additional investigations are being completed including a geotechnical assessment of the lakebed sediments and cable risk assessment. The geotechnical assessment of the lakebed sediments and cable risk assessment will be submitted to the NEB by June 24, 2016.	D	LEC Project Team	Complete	IR	IR 4.14a	
60	The outcome of sediment sampling and testing in Lake Erie is documented in the Lake Erie Water Quality Modeling Addendum Report. Additional information including lab test results for the sediment along the cable route are forthcoming and will be provided in March 2016.	D	LEC Project Team	Complete	IR	IR 3.19a IR 3.19c	
61	If the results of the additional geotechnical assessment of the lakebed sediments and cable risk assessment require a change to the proposed HVDC cable route, an updated route will be provided to the NEB.	D	LEC Project Team	As required	IR	IR 4.14d	
62	An evaluation of the potential impact of crushed limestone on the cable will be carried out during detailed design to determine the maximum size of the limestone that can be used in order to mitigate potential damage to the HVDC cable.	D	LEC Project Team	In Progress	IR	IR 7.4	
63	LEC will provide a list of topics that will be covered by its training program to the Board during the hearing process.	D	LEC Project Team	Complete	IR	IR 1.2o (Aug 4/15)	
64	LEC will address complaints by landowners and the public as required and in a manner consistent with the requirements of the NEB Act and the Electricity Filing Manual. LEC has and will continue to respond to comments and information requests in a timely manner. As part of the Application, supplementary reports will continue to be provided along with updated summaries of engagement activities for future reference.	D; PC; C	LEC Project Team	As required	APP, IR	§7.6 Response to IR 3 Attachment 2 (Jan 29/16)	Updates on consultation and engagement activities provided to the NEB on November 25, 2016 and July 6, 2018.
65	Presently, there are no comments or concerns from Elmcreech to address. Should any comments or concerns be received, LEC will develop appropriate responses. LEC will also meet with Elmcreech to discuss the Project, at their request.	D; PC; C	LEC Project Team	As required	IR	IR 4.1c	
66	Heritage and Archaeological Resources LEC must file with the Board, at least 30 days prior to the commencement of construction: a) for both the terrestrial and in-water portions of the Project, confirmation, signed by an officer of the company, that it has obtained all of the required archeological and heritage resource permits and clearances from the relevant provincial authorities; b) a description of how LEC will meet any conditions and recommendations contained in the permits and clearances referred to in a); and c) a description of how LEC has incorporated any additional mitigation measures into its EPP as a result of any conditions, comments, or recommendations referred to in b).	PC	LEC Project Team	Future Action	EC	Condition 24	
67	The Blasting Plan will describe the construction methods for installation of the cable using blasting and measures to prevent and mitigate effects on fish and fish habitat.	PC; C	LEC Project Team	Future Action	APP	§6.3	
68	Adherence to In-Water Restricted Activity Timing Windows LEC shall file with the Board for approval, at least sixty (60) days prior to the commencement of construction of the in-water trench: a) the relevant in-water restricted activity timing windows for the proposed Project; b) the finalized timing of the in-water trench construction; c) in the event that in-water trench construction will not adhere to the in-water restricted activity timing windows, the rationale for why, and mitigation measures to be applied; and d) a summary of LEC's consultation with regulatory agencies (e.g., Ontario Ministry of Natural Resources and Forestry) in relation to the matters set out in a) to c). This summary must include any issues or concerns raised and how LEC has addressed or responded to those issues or concerns.	PC; C	LEC Project Team	Complete	EC	Condition 19	Response to Condition 19 filed with the NEB on August 10, 2018.
69	Blasted In-Water Excavation and Backfill Material LEC shall file with the Board, at least one hundred twenty (120) days prior to the commencement of construction, the location of the identified source for the proposed crushed limestone borrow material to be used for the backfilling of the blasted in-water trench.	PC	LEC Project Team	Future Action	EC	Condition 13	

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70	Commitments Tracking Table LEC shall file with the Board and post on its website, at least thirty (30) days prior to the commencement of construction, a commitments tracking table listing all commitments made by LEC in its Application, and otherwise agreed to during questioning or in its related submissions, including references to: i) the documentation in which the commitment appears (for example, the Application, responses to information requests, hearing transcripts, permit requirements, condition filings, or other documentation); ii) the accountable lead for implementing each commitment; and iii) the estimated timelines associated with the fulfillment of each commitment.	PC	LEC Project Team	Future Action	EC	Condition 8a	
71	Commitments Tracking Table LEC shall file with the Board, at the following times, an updated commitments tracking table: i) within ninety (90) days after the certificate date	PC	LEC Project Team	Complete	EC	Condition 8bi	Ver. 1 submitted to NEB September 25, 2017.
72	Commitments Tracking Table LEC shall file with the Board, at the following times, an updated commitments tracking table: ii) at least thirty (30) days prior to commencement of construction	PC	LEC Project Team	Future Action	EC	Condition 8bii	
73	Transmission Contracts LEC shall file with the Board, at least sixty (60) days prior to the commencement of construction, confirmation that LEC has executed the necessary long-term transmission contracts for the Project.	PC	LEC Project Team	Future Action	EC	Condition 29	
74	LEC will include compliance monitoring as part of the EPP associated with the Project including inspection, monitoring, and follow-up. Existing Best Management Practices, regulations, and agency direction will be included in the EPP as appropriate.	PC	LEC Project Team	Future Action	APP	\$6.3.1	
75	Compliance Program LEC shall file with the Board for approval, at least ninety (90) days prior to the commencement of construction, a Quality Assurance and Compliance Program. The Program shall describe the methods by which LEC shall ensure the Project described in the Application is designed, constructed and operated in conformity with the conditions of the certificate, designs, specifications, and undertakings set forth in its Application or as otherwise adduced in its evidence before the Board. The Program shall include, but not be limited to: a) a process or procedure to identify conditions of approval, company designs, specifications and undertakings set forth in the Application or otherwise adduced in LEC's evidence; b) processes or procedures to monitor, measure, document and report on compliance with conditions of approval, company designs, specifications and undertakings set forth in the Application or otherwise adduced in LEC's evidence; c) the position title and contact information of the person(s) responsible for each aspect of the Program; d) the qualifications, contact information, description of the job role and the position title of the person(s) who is authorized to stop work should the work be in non-conformity with conditions of approval, company designs, specifications and undertakings set forth in the Application or otherwise adduced in LEC's evidence; e) a process or procedure to identify and implement any corrective action as a result of any non-conformances that may be necessary before recommencing work; f) a process or procedure to evaluate the effectiveness of the corrective actions taken as a result of any non-conformances; and	PC	LEC Project Team	Future Action	EC	Condition 9	
76	Reliability, Safety, and Security of International Power Lines LEC shall: a) comply with the provisions of Board Order MO-036-2012 electric reliability; and b) file with the Board a list of reliability standards applicable to the Project, at least sixty (60) days prior to commencement of construction.	PC	LEC Project Team	Future Action	EC	Condition 17	
77	Design and Interconnection Compliance LEC shall file with the Board for approval, at least sixty (60) days prior to the commencement of construction, a report confirming that the design of facilities, construction plan, and planned operations comply with the following: a) LEC's 500 kV equipment has been designed for a continuous voltage rating of at least 550 kV; b) LEC's protective relaying system will be set to ensure that transmission equipment remains in-service for the voltage range between 94% of the minimum continuous value and 105% of the maximum continuous value; c) LEC's connection equipment has been designed to be fully operational within -40 degrees C to +40 degrees C ambient air temperature; and d) LEC has made provision in the design of protections and controls of the Project to allow for future installation of Special Protection Scheme equipment that complies with the Northeast Power Coordinating Council reliability requirements.	PC	LEC Project Team	Future Action	EC	Condition 21	
78	Environmental Compliance Manager Qualifications LEC shall file with the Board, at least twenty one (21) days prior to commencement of construction, confirmation that a qualified environmental compliance manager shall be on site during construction to carry out appropriate inspections and monitor compliance with the final EPP. LEC shall include the qualifications, environmental education and experience, roles and responsibilities, decision-making authority, and reporting structure of each environmental compliance manager assigned to the Project that will be on site to monitor the effectiveness of erosion and sedimentation control measures, multi-functional barriers for wildlife exclusion, and any other applicable environmental mitigation measures that would be put in place during construction, as well as implementing any contingency plans as necessary, and performing any other duties outlined in the final EPP.	PC	LEC Project Team	Future Action	EC	Condition 25	
79	Qualified Aquatic Specialist LEC shall file with the Board, at least fourteen (14) days prior to the commencement of construction, confirmation that a qualified aquatic specialist shall be on site during construction. LEC shall include the qualifications and experience, roles and responsibilities, decision-making authority and reporting structure of each aquatic specialist assigned to the Project that will be on site during blasting activities and HDD.	PC	LEC Project Team	Future Action	EC	Condition 26	
80	Other Approvals and Permits LEC shall file with the Board, at least fourteen (14) days prior to commencement of construction, confirmation by an officer of LEC that all necessary approvals and permits have been obtained for the Project from the organizations listed in Section 4.4.2 of the Application – "Other Approvals and Permits". LEC shall also include in the filing any commitments made or requirements attached to any permits or approvals so issued.	PC	LEC Project Team	Future Action	EC	Condition 27	
81	Haldimand Converter Station Foundation Design LEC shall file with the Board for approval, at least ninety (90) days prior to the commencement of construction, a final geotechnical detailed design report that sets out the design parameters and methodologies recommended to design the foundations of the structures at the Haldimand Converter Station in accordance with the National Building Code of Canada.	PC	LEC Project Team	Future Action	EC	Condition 12	
82	In-Water Third Party Facilities Crossing Plan LEC shall file with the Board for approval, at least ninety (90) days prior to the commencement of construction, a plan setting out details as to how the Project will cross third party in-water facilities, including: a) minimum burial depth; b) proximity of the cable to all existing third party facilities; c) construction procedure; and d) confirmation that the information filed is in accordance with the agreements or crossing permits.	PC	LEC Project Team	Future Action	EC	Condition 18	
83	Following the delineation of the detailed terrestrial and underwater cable routes after the in-water survey and prior to construction, a series of more detailed cable route alignment sheets will be prepared at a suitable scale to identify environmental constraints and other potential issues. The EPP, alignment sheets, and draft plans will be available prior to construction.	PC	LEC Project Team	In Progress	APP	\$6.3	
84	An EPP will be developed that will include mitigation measures for fugitive dust during construction. These measures will be consistent with those typically deployed for construction activities in Ontario for projects of a similar scale and location. Dust control during construction will be addressed through various operational methods such as watering, staging of work, erosion and sedimentation control measures (i.e., silt fencing), and re-vegetation of disturbed areas.	PC; C	LEC Project Team	Future Action	IR	IR 4.11 (ECCC 5)	
85	The EPP noted above [IR 4.11 ECCC 5] will indicate the conditions under which mitigation measures for fugitive dust will be deployed.	PC; C	LEC Project Team	Future Action	IR	IR 4.11 (ECCC 6)	
86	LEC will consult with Haldimand County in regards to any required zoning variances (height, set-backs) for the Haldimand Converter Station.	PC	LEC Project Team	Complete	APP	\$6.2.1.11, p 6-57 App D, Table D-1	
87	LEC also intends to carry out pre-construction information sessions to inform the community in the vicinity of the Project in advance of construction and respond to questions or potential concerns.	PC	LEC Project Team	Future Action	IR	IR 4.1c	

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					Document [2]	§ or pg. reference	
88	Pre-construction communication with local boating associations will limit interactions with local boating activities.	PC	LEC Project Team	Future Action	APP, IR	\$6.2.2.11, p 6-115 App D, Table D-2 Response to IR 1&2 Attachment 3 (Sept 18/15)	
89	The Cultural Heritage Resource Discovery Contingency Plan will address the unlikely discovery of archaeological or cultural heritage resources.	PC; C	LEC Project Team	Future Action	APP	\$6.3	
90	LEC will prepare a Project-specific EPP prior to construction for the Lake Erie Connector addressing NEB Application requirements which will: - Reflect all commitments and requirements in relation to the design, planning, construction, and operation of the Lake Erie Connector - Include mitigation measures to be implemented during construction, operation, and decommissioning to reduce the environmental impact of the Project on the environment as outlined in the ESEA (Section 6.2) - Identify appropriate communication and training protocols and ensure they are in place and that staff have been appropriately trained in their implementation - Identify key contacts and responsibilities for carrying out practices and procedures.	PC	LEC Project Team	Future Action	APP	\$6.3	
91	LEC confirms that the final EPP will include all items as listed in IR 7.6a.1 through 7.6a.8.	PC	LEC Project Team	Future Action	IR	IR 7.6a	
92	LEC confirms that the final EPP will include assignment of accountabilities and responsibilities for the Environmental Compliance Manager.	PC	LEC Project Team	Future Action	IR	IR 7.8b	
93	The EPP will be updated and revised as necessary through detailed design and will be filed with the NEB when completed.	PC	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
94	Environmental Protection Plan (EPP) LEC shall file with the Board for approval, at least sixty (60) days prior to the commencement of construction, a final and updated project specific EPP, which it has committed to implement. The EPP shall describe all environmental protection procedures, and mitigation and monitoring commitments, as set out in LEC's Application or as otherwise agreed to in its related submissions. The EPP shall use clear and unambiguous language that confirms LEC's intention to implement all of its commitments. Construction will not commence until LEC has received approval of its EPP from the Board.	PC	LEC Project Team	Future Action	EC	Condition 20	
95	Prior to construction, an erosion and sedimentation control plan will be developed. The Erosion and Sedimentation Control Plan will identify control measures and best management practices to address management of soils and water discharges from work and stockpile areas.	PC	LEC Project Team	Future Action	APP	\$4.2.3.2 \$6.3	
96	The Erosion and Sedimentation Control Plan was developed to a sufficient level of detail in accordance with local and provincial standards. LEC confirms that items as listed in 7.12 a.1) to 7.12 a.5) and 7.12 b) will be updated as required during detailed design and will be included in the Final EPP.	PC	LEC Project Team	Future Action	IR	IR 7.12	
97	The LEC Connector Emergency Response Plan (ERP) for construction will be completed during detailed design and the construction planning stages. The ERP for construction will be provided to the NEB when complete and no later than three (3) months prior to start of construction.	PC	LEC Project Team	Future Action	IR	IR 6.1	
98	Quantitative Estimation of Direct, Project-related Greenhouse Gas (GHG) Emissions from Construction LEC must file with the Board, at least ninety (90) days prior to the commencement of construction: a) a quantitative estimation and assessment of greenhouse gas emissions expected to directly result from each activity, including clearing, during construction of the Project, including, but not limited to, emissions generated by vessels, vehicles, and equipment; and b) a description of the calculation methodology used in the estimation and assessment, the assumptions and inputs used, and any variables that may affect the results.	PC	LEC Project Team	Future Action	EC	Condition 28	
99	Construction Safety Manuals LEC shall file with the Board, at least ninety (90) days prior to the commencement of construction: a) safety manuals related to the construction of the Project. The manuals must address construction procedures, activities, and public safety issues for the following: i) terrestrial and in-water cable installation, including details on the post-lay burial procedure; ii) Haldimand Converter Station construction; iii) blasting activities; and iv) navigation limitations to lake traffic during construction; b) an outline of the safety training program to be implemented for the operation of the Project.	PC	LEC Project Team	Future Action	EC	Condition 14	
100	LEC will require MNR (Oil and Gas) approval for HDD installation including disclosure of potential additives that may be used.	PC; C	LEC Project Team	Future Action	IR	IR 7.3b	
101	An Inadvertent Return Plan [for HDD] will be developed which will specify how to monitor for, identify, contain, and remediate releases of drilling fluid. Descriptions of drilling fluid (e.g., material safety data sheets) will also be included in the plan.	PC; C	LEC Project Team	Future Action	APP	\$4.2.3.7 Throughout \$6.2.1 and \$6.2.2 \$6.3 \$6.3.1.2 App D, Table D-2 IR 4.11 (ECCC 4)	
102	The Horizontal Directional Drilling (HDD): Contingency Plan and Emergency Plan including the Inadvertent Return Plan will be completed once the detailed drill design is complete later in the design process for the Project. The Inadvertent Return Plan will specify how to monitor for, identify, contain, and remediate releases of drilling fluid. Details on monitoring that will be conducted during HDD activities, as well as stop work thresholds (if required) will be included in the Horizontal Directional Drilling (HDD): Contingency Plan and Emergency Plan.	PC	LEC Project Team	Future Action	IR	IR 4.11 (ECCC 4)	
103	LEC will provide a detailed description of the contingency plan should HDD installation fail including consideration of alternate installation methods in the final HDD Contingency Plan that will be provided to the NEB three months prior to construction.	PC	LEC Project Team	Future Action	IR	IR 7.2	
104	Horizontal Directional Drilling (HDD) and Contingency Plan LEC shall file with the Board for approval, at least ninety (90) days prior to the commencement of construction: a) a drawing showing the HDD drill path, entry and exit points, the anticipated drill angles at the entry and exit points, the no drill zone, and the soil stratigraphy along the HDD trajectory based on the available borehole information; b) a contingency plan to provide an alternative method of installation along the Canadian shore-line in the event that the HDD procedure is not successful; and c) confirmation by an authorized officer of LEC based on the available information, that the HDD installation can be completed in a manner consistent with safety and reliability.	PC	LEC Project Team	Future Action	EC	Condition 11	
105	Agreements and Crossing Permits LEC shall file with the Board, at least ninety (90) days prior to the commencement of construction, the identity of all infrastructure facilities to be crossed by the power line, and confirmation that all the agreements or crossing permits for those facilities have been acquired.	PC	LEC Project Team	Future Action	EC	Condition 15	
106	The Landscaping Plan will be prepared to address the larger buffer immediately to the east of the Haldimand Converter Station and the wide-bottom swale, and land around the other perimeters of the facility which will likely be seeded with native grass mix and/or other perennial native species.	PC; C	LEC Project Team	Future Action	APP	\$6.2.1.3, p 6-32 \$6.3	
107	Weed Management Plan LEC shall file with the Board for approval, at least forty-five (45) days prior to the commencement of construction, a project specific Weed Management Plan that includes: a) LEC's goals, including mitigation goals, and measurable objectives regarding the Weed Management Plan; b) the methods and procedures available to achieve the mitigation goals and clear decision criteria for their selection; c) a mechanism for tracking weed problems and weed control activities; d) criteria to evaluate if the mitigation goals have been met; e) adaptive management practices that will be used to revise the mitigation methods and procedures if evaluation criteria determine that mitigation goals are not met; f) a summary of LEC's consultation concerning the matters set out in a) to e) with appropriate regulatory authorities, including any issues or concerns raised and how LEC has addressed or responded to those issues or concerns; g) the type and frequency of monitoring activities and parameters to be monitored and the applicable criteria that it would be used to measure against; h) a proposed schedule for reporting to the Board on the progress and success of the Plan; and i) confirmation that the approved Weed Management Plan will be attached to the final EPP.	PC; C	LEC Project Team	Future Action	EC	Condition 22	
108	LEC confirms that items as listed in 7.11 a) through 7.11 e) will be addressed as part of development of the Final EPP. Please note that vegetation within the Haldimand Road 55 right-of-way is maintained by Haldimand County.	PC	LEC Project Team	Future Action	IR	IR 7.11	
109	The Vessel Traffic and Movement Plan will mitigate potential boat and vessel traffic related issues on Lake Erie during construction and installation of the underwater cable.	PC; C	LEC Project Team	Future Action	APP	\$6.3	
110	The Environmental Protection Plan (EPP) will include measures to address noise during construction.	PC; C	LEC Project Team	Future Action	IR	IR 4.10 (HC-06)	
111	A pollution prevention plan will also be developed for materials handling and will be implemented during construction.	PC; C	LEC Project Team	Future Action	APP	\$4.2.3.2	

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 EC-056 (June 26/17)

Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
					Document [2]	\$ or pg. reference	
112	In-Water Cable Burial Contingency Plan LEC shall file with the Board for approval, at least ninety (90) days prior to the commencement of construction, a contingency plan detailing the measures to be taken and a justification as to why a different burial depth is sufficient in the event that the minimum burial depth as identified by LEC, to be 2.5 metres between kilometre post 0 and kilometre post 18, and to be 1.5 metres between kilometre post 18 and the Canadian border, cannot be achieved in the lakebed. The contingency plan shall include an impact analysis, including any potential environmental effects, of any mitigation measures considered in response to burial depths shallower than the minimum burial depth.	PC; C	LEC Project Team	Future Action	EC	Condition 10	
113	LEC will update the Repair Contingency Plan in the Final EPP to include a reference to the Navigation and Navigation and Safety Plan and identify potential additional navigation and navigation safety measures that would be implemented during cable repair activities.	PC	LEC Project Team	Future Action	IR	IR 7.14b	
114	The Environmental Protection Plan will include an Emergency Spill and Response Contingency Plan that will contain protocols for managing spills.	PC; C	LEC Project Team	Future Action	IR	IR 4.10 (HC-02)	
115	The Emergency Spill and Response Plan will address terrestrial and aquatic construction requirements, providing a description of the best management practices that will be followed during construction to reduce the risk of spills and, in the unlikely event of a spill, identify response measures.	PC; C	LEC Project Team	Future Action	APP	§6.3	
116	The Surface Water Management Plan will be prepared to mitigate potential off-site water quality and quantity impacts associated with the Project.	PC; C	LEC Project Team	Future Action	APP	§6.3	
117	The Traffic Management Plan will be developed to minimize potential effects associated with construction related traffic and associated potential effects (i.e., temporary lane closures)	PC; C	LEC Project Team	Future Action	APP, IR	§6.2.1.16, p 6-75 §6.3 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
118	The Waste Management Plan will address the control of waste from the Project in accordance with NEB and other potential regulatory requirements.	PC; C	LEC Project Team	Future Action	APP	§6.3	
119	LEC confirms that the Final Waste Management Plan will be updated to include measures to manage waste from construction and operations of the aquatic portion of the Project. Waste generated during installation of the cable in Lake Erie will be collected and isolated on the vessels and appropriately disposed of on-shore when docked.	PC	LEC Project Team	Future Action	IR	IR 7.13a	
120	LEC confirms that the Waste Management Plan will be updated for the Final EPP, including both the terrestrial and aquatic portions of the Project. Please note that there are no legislated reporting requirements for implementation of the Waste Management Plan.	PC	LEC Project Team	Future Action	IR	IR 7.13b.1 through b.5	
121	Waste Management Plan LEC shall file with the Board for approval, at least forty-five (45) days prior to the commencement of construction, an updated Waste Management Plan which identifies measures to manage waste from construction and operations for the in-water portion of the route. The Plan shall include: a) LEC's goals, including mitigation goals, and measurable objectives regarding the Waste Management Plan for the in-water portion of the route; b) the methods and procedures available to achieve the mitigation goals and clear decision criteria for their selection; c) criteria to evaluate if the mitigation goals have been met; d) adaptive management practices that will be used to revise the mitigation methods and procedures if evaluation criteria determine that mitigation goals are not met; e) details on handling, storage, use, and disposal of waste; f) a summary of LEC's consultation concerning the matters set out in a) to e) with appropriate regulatory authorities, including any issues or concerns raised and how LEC has addressed or responded to those issues and concerns; g) the type and frequency of monitoring activities and parameters to be monitored and the applicable criteria that it would be used to measure against; h) a proposed schedule for reporting to the Board on the progress and success of the Plan; and	PC	LEC Project Team	Future Action	EC	Condition 23	
122	An Environmental Protection Plan (EPP) will be developed that will include protocols for managing discoveries of wildlife, including migratory birds.	PC; C	LEC Project Team	Future Action	IR	IR 4.11 (ECCC 1)	
123	An EPP will be developed that will include protocols for managing discoveries of wildlife, including non-migratory birds and other terrestrial SAR and any migratory bird SAR listed under schedule 1 of SARA. Contact information for the appropriate agency will be included in the EPP in the event of such encounters.	PC; C	LEC Project Team	Future Action	IR	IR 4.11 (ECCC 2)	
124	LEC confirms that measures as listed in IR 7.9a, b and c will be implemented. LEC will update and provide the Final EPP Blasting Plan to the NEB three months prior to construction.	PC; C	LEC Project Team	Future Action	IR	IR 7.9	
125	LEC confirms that, as noted in the draft EPP, a qualified Environmental Compliance Manager will be on-site during construction carrying out appropriate inspections and monitoring compliance with measures as listed in 7.8 a) and the measures as listed in the Final EPP.	PC; C	LEC Project Team	Future Action	IR	IR 7.8a	
126	LEC confirms that, unless work is started prior to the bird nesting season, the measures noted in IR 7.7a through 7.7e will be implemented.	PC; C	LEC Project Team	Future Action	IR	IR 7.7	
127	The ERPs for construction and operations will include relevant and up-to-date contact information so members of the public are able to notify LEC and/or other relevant entities, of an emergency.	PC; C	LEC Project Team	Future Action	IR	IR 6.1g.3	
128	The ERPs for construction and operations will be posted to the project website and that LEC will post updated versions of the ERPs as required.	PC; C	LEC Project Team	Future Action	IR	IR 6.1g.4	
129	Before operation of the Project, an emergency repair and response plan will be prepared to identify procedures and contractors necessary to perform maintenance and emergency repairs. [The] emergency response plan (ERP) will be developed based on the National Standard of Canada, CAN/CSA-Z731-03 (R2009): Emergency Preparedness and Response. LEC will [provide the ERP] with Haldimand County and local Fire Services.	PC; C	LEC Project Team	Future Action	APP	§4.2.5.6 §4.2.5.7 §6.2.1.16, p 6-74 §6.3	
130	LEC will consult with the appropriate parties and agencies during the development of the ERPs for construction and operations in accordance with applicable standards, including Canadian Standards Association (CSA) Standard Z731-03 Emergency Preparedness and Response and North American Electric Reliability Corporation (NERC) Standard EOP-001-2b – Emergency Operations Planning.	PC; C	LEC Project Team	Future Action	IR, SUP	IR 6.1a Supplementary Response to IR 6.1a (Jul 6/16)	
131	LEC will consult with appropriate persons, agencies, and governments that have the relevant expertise when establishing the ERPs, including, but not limited to, continuing consultation with: - Haldimand County; - Ministry of Natural Resources and Forestry (MNRF); - Ministry of the Environment and Climate Change; - Ministry of Transportation; - Ministry of Energy; - Hydro One; - Independent Electricity System Operator (IESO); - PJM; - Transport Canada; and - Canadian Coast Guard. LEC will issue correspondence to relevant agencies to confirm the relevant and interested parties to be engaged. The extent of consultation will be determined by the identified	PC; C	LEC Project Team	Future Action	SUP	Supplementary Response to IR 6.1a (Jul 6/16)	
132	Following confirmation of appropriate agencies and the extent of consultation, appropriate engagement will be carried out (including through emails, telephone, and meetings) to solicit input on proposed approaches for emergency response planning associated with the construction and operation of the Lake Erie Connector. Agencies and interested parties will be provided an opportunity, as requested, to review and comment on the draft ERP documents. Comments will be considered and addressed accordingly. The final ERPs will be provided to those agencies that confirm that a copy is required to be filed with that agency during the consultation process.	PC; C	LEC Project Team	Future Action	SUP	Supplementary Response to IR 6.1a (Jul 6/16)	
133	LEC will include a detailed description of the notification procedure and associated parties to be notified in the ERPs that will provided to the NEB when complete. The parties to be notified may include some or all of the parties and agencies listed in the response to IR 6.1 a).	PC; C	LEC Project Team	Future Action	IR	IR 6.1e	
134	LEC will include in the ERPs for construction and operations a comprehensive list of entities (parties and agencies) with which the ERP will be provided and a description of the frequency of ERP updates, which will be confirmed with the individual parties and agencies through consultation. Parties and agencies to be provided with the ERP may include some or all of those listed in the response to IR 6.1 a) above. The confirmed list of entities will be included in the ERPs provided to the NEB.	PC; C	LEC Project Team	Future Action	IR	IR 6.1f	
135	The ERPs will be coordinated with Hydro One and the IESO and, as required, the corresponding agencies in the United States.	PC; C	LEC Project Team	Future Action	IR	IR 6.1g.1	
136	LEC will engage with relevant entities (parties and agencies) in the Project area in continuing education activities regarding the identified hazards.	PC; C	LEC Project Team	Future Action	IR	IR 6.1g.2	

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Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
					Document [2]	§ or pg. reference	
137	The process for hazard identification and evaluation will assess the probabilities and consequences associated with hazards arising from human activities, technological events and natural threats in accordance with CSA Standard Z731-03 Emergency Preparedness and Response. Risk-based analyses evaluating historical occurrence, probability of recurrence, vulnerability, maximum threat potential, severity, and amount of pre-event warning for various hazards will be examined and a representative risk assessment will be completed for the Project. Site-specific Health and Safety Plans will be developed that define the potential hazards at each work site including: - the location, quantity and types of hazardous materials; - routes by which hazardous materials will be transported; and - areas of public health concern and sensitive environmental areas, if any. The results of the above will be used to complete the initial hazard identification.	PC; C	LEC Project Team	Future Action	SUP	Supplementary Response to IR 6.1b (Jul 6/16)	
138	LEC will consult with the appropriate parties and agencies during the development of the ERPs for construction and operations. A description of the consultation plan will be provided to the NEB in draft form by July 6, 2016.	PC; C	LEC Project Team	Complete	IR	IR 6.1a	
139	LEC is currently developing the process that would be used to identify potential hazards associated with the Project, and will provide this to the NEB in draft form by July 6, 2016.	PC; C	LEC Project Team	Complete	IR	IR 6.1b	
140	The detailed description of the potential hazard identification process for the Project will be included in the ERPs and will be provided to the NEB when completed.	PC; C	LEC Project Team	Future Action	IR	IR 6.1b	
141	The ERPs for construction and operations will include the following primary components: - Safety Policy; - Environmental Policy; - Emergency Preparedness and Response Policy; - Distribution List; - Emergency Levels and Definitions; - Emergency Contacts; - Responsibilities; - Activation and Notification; - Response Action Plans; - Post Emergency; - Field Specific; and - Forms.	PC; C	LEC Project Team	Complete	IR	IR 6.1c	
142	The ERPs for construction and operations will be completed based on relevant standards, including the National Standard of Canada, CAN/CSA-Z731-03 (R2014): Emergency Preparedness and Response. A detailed list of the standards relevant to the ERPs will be provided in draft form by July 6, 2016.	PC; C	LEC Project Team	Complete	IR	IR 6.1d	
143	LEC is developing the notification procedure to be contained within the ERP and will provide this to the NEB in draft form by July 6, 2016.	PC; C	LEC Project Team	Complete	IR	IR 6.1e	
144	LEC is developing the list of entities that will require LEC to file the ERPs with the entity, and the frequency of updates for the ERPs, and will provide these to the NEB in draft form by July 6, 2016.	PC; C	LEC Project Team	Complete	IR	IR 6.1f	
145	LEC will develop and implement a weed control program during construction.	PC; C	LEC Project Team	Future Action	APP, IR	§6.2.1.3, p 6-33 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
146	Commitments Tracking Table LEC shall update the status of the commitments and file those updates with the Board, on a monthly basis starting ninety (90) days after the certificate date until the commencement of operations, and quarterly during operations until all commitments are satisfied (except those that involve filings for the Project's operational life)	PC; C; O	LEC Project Team	In Progress	EC	Condition 8c	See filing details in Commitment 147.
147	Commitments Tracking Table LEC shall post on its website the same information required by b) and c), within the same indicated timeframes: b) an updated commitments tracking table: i) within ninety (90) days after the certificate date; and ii) at least thirty (30) days prior to commencement of construction; c) an update the status of the commitments and file those updates with the Board, on a monthly basis starting ninety (90) days after the certificate date until commencing operations, and quarterly during operations until all commitments are satisfied (except those that involve filings for the Project's operational life)	PC; C; O	LEC Project Team	In Progress	EC	Condition 8 b), c), and d)	Submitted to NEB/CER: 1) Sept. 25, 2017 (90-days after certificate date) 2) Oct. 25, 2017 (Ver. 2 Sept. 22 - Oct. 20, 2017) 3) Nov. 21, 2017 (Ver. 3 Oct. 21 - Nov. 16, 2017) 4) Dec. 19, 2017 (Ver. 4 Nov. 17 - Dec. 15, 2017) 5) Jan. 17, 2018 (Ver. 5 Dec. 16, 2017 - Jan. 16, 2018) 6) Feb. 21, 2018 (Ver. 6 Jan. 17 - Feb. 16, 2018) 7) Mar. 23, 2018 (Ver. 7 Feb. 17 - Mar. 16, 2018) 8) Apr. 23, 2018 (Ver. 8 Mar. 17 - Apr. 20, 2018) 9) May 29, 2018 (Ver. 9 Apr. 21 - May 25, 2018) 10) Jun. 27, 2018 (Ver. 10 May 26 - Jun. 22, 2018) 11) Aug. 10, 2018 (Ver. 11 Jun. 23 - Jul. 20, 2018) 12) Aug. 29, 2018 (Ver. 12 Jul. 21 - Aug. 24, 2018) 13) Sept. 25, 2018 (Ver. 13 Aug. 25 - Sept. 21, 2018) 14) Nov. 7, 2018 (Ver. 14 Sept. 21 - Oct. 26, 2018) 15) Dec. 6, 2018 (Ver. 15 Oct. 27 - Nov. 30, 2018) 16) Jan. 16, 2019 (Ver. 16 Dec. 1 - Dec. 31, 2018) 17) Feb. 11, 2019 (Ver. 17 Jan. 1 - Jan. 31, 2019) 18) Apr. 2, 2019 (Ver. 18 Feb. 1 - Feb. 28, 2019) 19) Apr. 25, 2019 (Ver. 19 Mar. 1 - Mar. 31, 2019) 20) Jun. 13, 2019 (Ver. 20 Apr. 1 - Apr. 30, 2019) 21) Aug. 7, 2019 (Ver. 21 May 1 - Jun. 30, 2019) 22) Aug. 27, 2019 (Ver. 22 Jul. 1 - Aug. 19, 2019) 23) Oct. 7, 2019 (Ver. 23 Aug. 20 - Sept. 30, 2019) 24) Nov. 4, 2019 (Ver. 24 Oct. 1-31, 2019) 25) Jan. 10, 2020 (Ver. 25 Nov. 1-30, 2019) 26) Jan. 22, 2020 (Ver. 26 Dec. 1-31, 2019)

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					Document [2]	§ or pg. reference	
							29) Jun. 4, 2020 (Ver. 29 Apr. 1-30, 2020) 30) Jun. 29, 2020 (Ver. 30 May 1-31, 2020) 31) Aug. 5, 2020 (Ver. 31 Jun. 1-30, 2020) 32) Sept. 8, 2020 (Ver. 32 Jul. 1-31, 2020) 33) Oct. 2, 2020 (Ver. 33 Aug. 1-31, 2020) 34) Nov. 4, 2020 (Ver. 34 Sep. 1-30, 2020) 35) Dec. 7, 2020 (Ver. 35, Oct. 1-31, 2020) 36) Jan. 11, 2021 (Ver. 36, Nov. 1-30, 2020) 37) Feb. 12, 2021 (Ver. 37, Dec. 1-31, 2020) 38) Mar. 15, 2021 (Ver. 38, Jan. 1-31, 2021) 39) Apr. 28, 2021 (Ver. 39, Feb. 1-28, 2021) 40) May 14, 2021 (Ver. 40, Mar. 1-31, 2021) 41) Jun. 10, 2021 (Ver. 41, Apr. 1-30, 2021) 42) Jul. 12, 2021 (Ver. 42, May 1-31, 2021) 43) Aug. 23, 2021 (Ver. 43, Jun. 1-30, 2021) 44) Sep. 10, 2021 (Ver. 44, Jul. 1-31, 2021) 45) Oct. 18, 2021 (Ver. 45, Aug. 1-31, 2021) 46) Nov. 16, 2021 (Ver. 46, Sep. 1-30, 2021) 47) Dec. 20, 2021 (Ver. 47, Oct. 1-31, 2021) 48) Jan. 13, 2022 (Ver. 48, Nov. 1-30, 2021) 49) Feb. 7, 2022 (Ver. 49, Dec. 1-31, 2021) 50) Mar. 3, 2022 (Ver. 50, Jan. 1-31, 2022) 51) Apr. 12, 2022 (Ver. 51, Feb. 1-28, 2022) 52) May 5, 2022 (Ver. 52, Mar. 1-31, 2022) 53) Jun. 6, 2022 (Ver. 53, Apr. 1-30, 2022) 54) Jul. 12, 2022 (Ver. 54, May 1-31, 2022) 55) Aug. 29, 2022 (Ver. 55, Jun. 1-30, 2022) 56) Oct. 7, 2022 (Ver. 56, Jul. 1-31, 2022) 57) Nov. 3, 2022 (Ver. 57, Aug. 1-31, 2022) 58) Dec. 14, 2022 (Ver. 58, Sep. 1-30, 2022) 62) Apr. 13, 2023 (Ver. 62, Jan. 1-31, 2023) 63) May 10, 2023 (Ver. 63, Feb. 1-28, 2023) 64) Jun. 20, 2023 (Ver. 64, Mar. 1-31, 2023) 65) Jul. 24, 2023 (Ver. 65, Apr. 1-30, 2023) 66) Aug. 22, 2023 (Ver. 66, May 1-31, 2023) 67) Sept. 13, 2023 (Ver. 67, Jun. 1-30, 2023) 68) Oct. 11, 2023 (Ver. 68, Jul. 1-31, 2023) 69) Nov 30, 2023 (Ver. 69, Sep, 2023) 70) Dec 12, 2023 (Ver. 70, Sep, 2023) 71) Jan 11, 2024 (Ver. 71, Nov, 2023) 72) Feb 19, 2024 (Ver. 72, Dec, 2023) 73) Mar 28, 2024 (Ver. 72, Dec, 2023) 74) Apr 26, 2024 (Ver. 74, Apr 1-30, 2024)
148	LEC will plan staging and construction activities to avoid impacts to adjacent Cultural Heritage Landscapes (Hickory Beach Lane) if practical. LEC will carry out a resource specific heritage impact assessment prior to construction if avoidance is not practical.	PC; C	LEC Project Team	Future Action	APP, IR	§6.2.1.12, p 6-61 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
149	Implement protocols as described in the Archaeological and Cultural Heritage Resource Discovery Contingency Plan	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
150	The launching pits on either side of the rail spur lines used for jack and bore installation, and any open trench associated with cable installation will be isolated from surrounding areas by a multi-functional protective barrier designed to provide erosion and sedimentation control and to prevent inadvertent human or wildlife access, including amphibians and reptiles that may incidentally traverse the work area.	C	LEC Project Team	Future Action	IR, SUP	IR 3.21a IR 3.21c Supplementary Evidence Attachment 2 (Feb 26/16) Supplementary Evidence Attachment 3 (Feb 26/16) Supplementary Evidence Attachment 6 (Feb 26/16)	
151	The sump pit and any open trench associated with cable installation will be isolated from surrounding areas by a multi-functional protective barrier designed to provide erosion and sedimentation control and to prevent inadvertent human or wildlife access, including amphibians and reptiles that may incidentally traverse the work area.	C	LEC Project Team	Future Action	IR, SUP	IR 3.21d IR 3.24c Supplementary Evidence Attachment 2 (Feb 26/16)	
152	Site fencing will be installed to limit access to construction personnel.	C	LEC Project Team	Future Action	APP	§4.2.2.2	
153	Install a multi-functional protective barrier as required for excavations, consisting of a minimum 244 cm (8 foot) wire or chain link fence with a minimum 100 cm geotextile cloth affixed to the exterior to prevent inadvertent wildlife access, including amphibians and reptiles that may incidentally traverse the work area. Along the Haldimand Road 55 ROW, the multi-functional barrier may include a chain-link fence mounted on top of a concrete jersey barrier also providing traffic safety and work zone protection.	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
154	Work with both Ontario Power Generation (OPG) and Haldimand County to inspect and maintain the integrity of existing security fencing during construction	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
155	Trenching in lake bedrock will either employ drilling or low intensity blasting. Measures to avoid harm to fish and fish habitat will be employed in accordance with DFO guidance.	C	LEC Project Team	Future Action	APP, IR	§6.2.2.2, p 6-89 §6.2.2.4, p 6-96 §6.2.2.5, p 6-101 §6.2.2.14, p 6-121 §6.2.2.16, p 6-125 App D, Table D-2 Response to IR 1&2 Attachment 2 Appendix B (Sept 18/15) Response to IR 1&2 Attachment 3 (Sept 18/15) Response to IR 2 Attachment 1 (Jan 29/16)	
156	Blasting will avoid potentially sensitive spawning and nursery habitat	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
157	Maintain a small daily work area for blasting	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
158	Utilize stemmed blasting technique that minimizes charge size and employ time delays between detonations of individual charges	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
159	Utilize strategic seasonal staging of the blasting work to avoid spring and fall spawning restricted activity timing windows as applicable	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
160	Utilize methods to startle fish from the work areas immediately prior to each daily blast with use of mechanical noise making equipment operated from a boat over the blast zone	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
161	LEC will adhere to the MNRF's guidance on in-water work timing windows.	C	LEC Project Team	Future Action	IR	IR 7.10a, b	
162	Remove all blasting debris and other associated equipment (anthropogenic material) from the blast area upon completion of the trench, with the exception of the shot rock which will be side-cast next to the trench	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	

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Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
					Document [2]	\$ or pg. reference	
163	Starting construction in June at the offshore end of the trench will avoid work within the October 1 – May 31 restricted activity timing window that is intended to protect any fall-spawned eggs and newly-hatched fishes that could be near the deeper end of the trench. At the same time, it will achieve maximum spatial separation between the activity and any late spring or early summer spawning activity that could be ongoing closer to shore at Hickory Beach.	C	LEC Project Team	No Longer Applicable as per correspondence with MNRF	IR	Response to IR 1&2 Attachment 2 Appendix B (Sept 18/15)	
164	Recent refinement of the construction methods and staging includes construction of the trench and receiving pit from the offshore end and proceeding towards shore to meet up with the HDD. This activity will occur during a June to November construction period, and the offshore to nearshore staging of the excavation will respect the restricted activity timing windows associated with fall-spawning fish species that are more likely to occur near the offshore end of the trench and spring-spawning species that are more likely to occur near the nearshore end of the trench.	C	LEC Project Team	No Longer Applicable as per correspondence with MNRF	IR	Response to IR 1&2 Attachment 2 (Sept 18/15)	
166	Measures to avoid harm to fish and fish habitat will be employed in accordance with DFO guidance, to reduce the potential release of noise and/or vibration to underwater receptors during the installation of the underwater HVDC cables.	C	LEC Project Team	Future Action	APP, IR	§6.2.2.9, p 6-110 §6.2.2.11, p 6-115 App D, Table D-2 Response to IR 1&2 Attachment 3 (Sept 18/15)	
167	Fish presence in and near work areas will be monitored by incidental diver observations and/or the use of boat-mounted sonar. Fish will be startled from the work areas immediately prior to each daily blast with use of mechanical noise making equipment operated from a boat over the blast zone.	C	LEC Project Team	Future Action	IR, SUP	Response to IR 1&2 Attachment 2 (Sept 18/15) Response to IR 1&2 Attachment 2 Appendix B (Sept 18/15) Supplementary Evidence Attachment 2 (Feb 26/16) Supplementary Evidence Attachment 7 (Feb 26/16)	
168	The effectiveness of the acoustic [fish] repulsion techniques will be confirmed by follow-up observations (e.g., sonar, incidental diver observations).	C	LEC Project Team	Future Action	IR	Response to IR 1&2 Attachment 2 Appendix B (Sept 18/15)	
169	Monitor fish presence in and near blasting work areas by incidental diver observations and/or the use of boat-mounted sonar	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
170	The blasted rock will be removed by a barge-mounted excavator and side cast. The trench will be bedded and backfilled with gravel. The source of gravel fill that would be used to fill in the proposed underwater trench has not yet been identified. The sourced fill material would comply with all applicable guidelines and/or standards which will include the Ontario Fill Quality Guide and Good Management Practices for Shore Infilling in Ontario. Depth contours will be returned to pre-existing conditions by filling the trench with upland-derived material.	C	LEC Project Team	Future Action	IR, SUP	Response to IR 1&2 Attachment 2 Appendix B (Sept 18/15) IR 3.19b Supplementary Evidence Attachment 4 (Feb 26/16) IR 5.2b	
171	Where the cable is placed into blasted bedrock, the proposed crushed limestone backfill material will be barged to the location of the trench and will be placed into the trench using a barge-mounted excavator. It will be placed up to a level approximately in accordance with the original lake bottom on either side of the trench.	C	LEC Project Team	Future Action	IR	IR 5.2c	
172	Where the cable is placed into blasted bedrock under a layer of sediment, the proposed crushed limestone material will be barged to the location of the trench and will be placed into the trench using a barge-mounted excavator up to a level approximately in accordance with the original level of the bedrock underlying the sediment.	C	LEC Project Team	Future Action	IR	IR 5.2c	
173	Allow natural infilling with native sediment to occur over top of backfilled trenches in areas where sufficient sediment exists	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
174	It is currently anticipated that materials removed from the underwater cable trench in bedrock, including sediment and excavated bedrock, would be side cast beside the trench. The handling of excavated materials by LEC and its contractors will comply with Ontario provincial guidelines including but not limited to the Guidelines for Identifying, Assessing and Managing Contaminated Sediments in Ontario and the Ontario Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (July 27, 2009).	C	LEC Project Team	Future Action	IR, SUP	IR 3.19c Supplementary Evidence Attachment 4 (Feb 26/16)	
175	Backfill trench to a level approximately in accordance with the original level of the bedrock with crushed limestone (ASTM C33, size #57) from a source that complies with standards which include the Ontario Fill Quality Guide and Good Management Practices for Shore Infilling in Ontario	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
176	Implement blasting mitigation measures identified in the Blasting Plan	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
177	LEC will comply with local municipal by-laws regarding working/construction hours.	C	LEC Project Team	Future Action	APP	§6.2.1.11, p 6-57 §6.2.1.14, p 6-68 §6.2.1.15, p 6-71 §6.2.1.16, p 6-75 App D, Table D-1	
178	The HVDC and AC cable trenches located in the Haldimand Road 55 right-of-way will be constructed in accordance with municipal and provincial requirements.	C	LEC Project Team	Future Action	IR	IR 4.5 a, b.1, b.2, b.3	
179	Commitments Tracking Table LEC shall maintain at each of its construction offices: i) the relevant environmental portion of the commitments tracking table listing all of LEC's regulatory commitments, including those from the Application and subsequent filings, and conditions from received permits, authorizations, and approvals; ii) copies of any permits, authorizations, and approvals for the Project issued by federal, provincial, or other permitting authorities that include environmental conditions or site-specific mitigation or monitoring measures; and iii) copies of any subsequent variances to any permits, authorizations, and approvals in e) i)	C	LEC Project Team	Future Action	EC	Condition 8e	
180	LEC will endeavour to source suitable concrete from a nearby facilities to minimize the time that concrete is transported to the appropriate pour location. The truck washout area for the delivery trucks will be located on-site and in a controlled area to capture concrete spoils during construction.	C	LEC Project Team	Future Action	APP, SUP	§4.2.2.2 Supplementary Evidence Attachment 4 (Feb 26/16)	
181	Existing fence rows on the Haldimand Converter Station property will be preserved where practical.	C	LEC Project Team	Future Action	APP, IR	§6.2.1.12, p 6-61 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
182	A minimum separation distance of 20 m will be maintained between the cable routes and the wetland and watercourse features on the Haldimand Converter Station site.	C	LEC Project Team	Future Action	APP	§4.2.3.5	
183	Use of neutral colours for the Haldimand Converter Station will reduce the potential for visual distraction.	C	LEC Project Team	Future Action	APP, IR	§6.2.1.14, p 6-68 §6.2.1.15, p 6-72 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
184	Dewatering discharges during construction will be addressed in accordance with best practices and LPRCA requirements.	C	LEC Project Team	Future Action	APP, IR	§6.2.1.4, p 6-38 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
185	The Site Construction Manager will be responsible for overseeing and coordinating inspection measures during construction. This person will communicate with municipal and regional staff to develop traffic control and safety measures, including modified routes for emergency response during construction.	C	LEC Project Team	Future Action	APP	§6.3.1.1	
186	Construction and installation techniques will be used to minimize potential effects on pipeline crossings.	C	LEC Project Team	Future Action	APP, IR	§6.2.2.11, p 6-115 App D, Table D-2 Response to IR 1&2 Attachment 3 (Sept 18/15)	
187	The jet plow installation will be pre-planned to avoid lakebed sediments that have insufficient loadbearing capacity to support the jet plow along the underwater HVDC cable route from KP15 to KP55. In areas where the load bearing capacity of the lake bed is insufficient to support the jet plow, the underwater HVDC cable will be installed utilizing post-lay burial ROVs with water jets. In sediments that are too soft to support the jet plow, the ROV will bury the cable approximately 2 m below the lakebed using 2 m jetting spears and a 2 m depressor arm.	C	LEC Project Team	Future Action	IR, FIL	IR 5.A.2a General Update (Oct 14/16)	
188	Construction Progress Reports LEC shall file with the Board, at the end of each month during construction, construction progress reports. The reports shall include information on the activities carried out during the reporting period, as well as any environmental, safety and security issues and non-compliances that arose and the measures undertaken for the resolution of each issue and non-compliance. The first report shall include a schedule for anticipated submission of each monthly report until construction is complete.	C	LEC Project Team	Future Action	EC	Condition 30	

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Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
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189	LEC will implement a construction management plan, including protocols to minimize engine idling and maintain vehicles.	C	LEC Project Team	Future Action	APP	§6.2.1.11, p 6-57 §6.2.1.14, p 6-68 §6.2.1.15, p 6-71 §6.2.1.16, p 6-76 App D, Table D-1	
190	Implement appropriate fugitive dust control measures such as watering, staging of work, and erosion and sedimentation control measures (i.e., silt fencing), and re-vegetation of disturbed areas. Fugitive dust control measures will be implemented as required.	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
191	Construction activities, including traffic management will be coordinated with the Haldimand County Roads Department and adjacent property owners as appropriate to minimize disruption during installation.	C	LEC Project Team	Future Action	APP	§4.2.3.2 §4.5.7 Supplementary Evidence Attachment 1 (June 24/16)	
193	LEC will coordinate with the appropriate utilities during installation of the AC and HVDC cables.	C	LEC Project Team	Future Action	APP, IR	§6.2.1.16, p 6-76 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
194	Should there be noise complaints by landowners and the public LEC will address such complaints as required and in a manner consistent with the requirements of the NEB Act and the Electricity Filing Manual.	C	LEC Project Team	As required	IR	IR 4.10 (HC-06)	
195	Follow Best Management Practices for erosion and sediment controls	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
196	Install multi-functional barriers with integrated erosion controls as appropriate	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
197	Retain existing vegetation and stabilize exposed soils where possible	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
198	Limit the size and duration of soil exposure and phasing construction when possible	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
199	Minimize nonessential clearing and grading	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
200	Minimize slope length and gradient of disturbed areas	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
201	Store/stockpile soil away from watercourses, drainage features and top of steep slopes	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
202	Follow the construction sequencing provided in the design	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
203	Install and maintain the erosion and sedimentation control measures as per plan specifications	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
204	LEC will implement stormwater management and erosion and sediment control plans to provide quantity and quality control for surface runoff. LEC will implement erosion and sedimentation control measures and best management practices during construction of the Haldimand Converter Station and installation of the AC and HVDC cables including an inadvertent return plan for HDD installation.	C	LEC Project Team	Future Action	APP	§6.2.1.2, p 6-28 §6.2.1.15, p 6-72 App D, Table D-1	
205	Install and maintain erosion and sediment control devices during construction in accordance with the Erosion and Sedimentation Control Plan	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
206	Erosion and sediment control devices will be installed; construction-phase stormwater management best practices will be implemented. Erosion, sediment control and surface water control measures will be deployed in construction lay-down areas and cable routes.	C	LEC Project Team	Future Action	APP, IR	§4.2.2.2 §6.2.1.4, p 6-38 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
207	The ERP to be implemented during operations will be completed during the construction phase and will be provided to the NEB no later than three (3) months prior to the start of commissioning and operations.	C	LEC Project Team	Future Action	IR	IR 6.1	
208	Abandonment Funding LEC shall file with the Board for approval, at least ninety (90) days prior to the date the Project is placed in service, a mechanism to set aside funds for the future abandonment of the Project that is consistent with the principles for set-aside mechanisms set out in the Board's MH-001-2013 Reasons for Decision dated 29 May 2014, and specifically chapters 2.9, 3.4, 5.2.2, and 5.2.4, and appendices VII, XI, and XII. The set-aside mechanism shall reflect the abandonment cost estimate LEC filed in its evidence.	C	LEC Project Team	Future Action	EC	Condition 38	
209	The interconnection of the Project with these stations [the Erie West 345 kV substation in Pennsylvania and the Nanticoke TS switchyard in Ontario] will be undertaken together with Penelec and Hydro One respectively, subject to their customer impact and approvals processes.	C	LEC Project Team	Future Action	APP	§4.3.1	
210	Excavation Safety LEC shall perform all excavations along the cable route in accordance with applicable occupational health and safety legislation. LEC shall file with the Board, within sixty (60) days of the completion of construction, a report detailing any construction activities that did not comply with the applicable occupational health and safety legislation.	C	LEC Project Team	Future Action	EC	Condition 35	
211	Operations Safety Manuals LEC shall file with the Board, at least ninety (90) days prior to the commencement of operations: a) safety manuals related to the operation activities of the Project. The manuals must address routine operation procedures, activities, and public safety issues that might be encountered during the operation of the: i) terrestrial and in-water cables; and ii) Haldimand Converter Station; b) an outline of the safety training program to be implemented for the operation of the Project	C	LEC Project Team	Future Action	EC	Condition 37	
212	Shielding will be employed to the extent practical to address noise during HDD installation. LEC will engage in discussions with local landowners in the area to address concerns regarding noise during construction in this area.	C	LEC Project Team	As required	APP, IR	§6.2.1.9, p 6-48 §6.2.1.11, p 6-57 §6.2.1.14, p 6-68 §6.2.1.15, p 6-71 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
213	LEC will be following the guidelines in ASTM F1962 Standard Guide for Use of Maxi-Horizontal Directional Drilling for Placement of Polyethylene Pipe or Conduit Under Obstacles, Including River Crossings. As required, LEC will follow the MNR (Oil and Gas) drilling permits and approvals process and associated conditions.	C	LEC Project Team	Future Action	IR	IR 7.1a.1	
214	LEC will follow applicable regulations during HDD installation including relevant MNR permitting and approval requirements. MSDS sheets will be available for all potential additives. There are no requirements to file the MSDS sheets with any agencies, however, they will be kept on-site and on file and provided to agencies upon request.	C	LEC Project Team	Future Action	IR	IR 7.3a	
216	Seasonal avoidance of the spring and fall fish spawning seasons will be considered as a possible additional protective measure for only the final approach of the HDD to the receiving pit, which may have an increased risk of inadvertent release as cover over the drill path decreases.	C	LEC Project Team	No Longer Applicable as per correspondence with MNR	APP	§6.2.2.5, p 6-100	
217	[S]erious harm to fish will be prevented by monitoring for inadvertent release of drilling fluids followed by containment and clean-up if necessary.	C	LEC Project Team	Future Action	APP, IR	§6.2.2.5, p 6-100 Response to IR 1&2 Attachment 2 (Sept 18/15)	
219	Preparatory excavation of the HDD receiving pit and pre-cutting of the cable trench will physically avoid spawning areas, and will include mitigation measures to prevent serious harm to individual fish. The HDD path within the bedrock will avoid the shallow, sandy nearshore area of Hickory Beach that is the focus of spring spawning activities by fish species	C	LEC Project Team	Future Action	APP	§6.2.2.5, p 6-99 §6.2.2.5, p 6-100	
220	Visual monitoring of the Lake Erie beach and shoreline area during HDD will identify the occurrence of drilling fluids at the ground surface in the unlikely event of an inadvertent release. Inadvertent releases will be isolated and controlled to limit the extent of potential effects, followed by removal and clean-up to restore affected areas.	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 2 (Feb 26/16) Supplementary Evidence Attachment 6 (Feb 26/16)	
221	Divers/video cameras will monitor the [HDD] sump and should drilling fluid be discharged, divers will employ a submersible pump to vacuum the drilling fluid into tanks that are located on the support barge.	C	LEC Project Team	Future Action	APP	§4.2.3.7	
222	Monitor the drilling fluid volume and pressure within the borehole	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
223	Monitor the underwater sump using divers and/or video cameras	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
224	The disturbed areas [from HDD] will be restored to their original grade to the extent practical and seeded to allow for natural re-vegetation.	C	LEC Project Team	Future Action	APP	§4.2.3.7	
225	Re-seed Haldimand Road 55 ROW and areas disturbed by HDD to allow for natural re-vegetation	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
226	Employ a submersible pump to vacuum any drilling fluid discharged into the underwater sump pit into tanks that are located on the support barge	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	

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Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
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227	If a drilling fluid release is detected the following procedures will be implemented - HDD Contractor will immediately notify the appropriate regulatory agencies that a fluid release has been detected - HDD Contractor will immediately begin containment efforts - HDD Contractor will begin steps to reduce released fluid volumes and pressure - Once containment has been established drilling will continue. If the amount of the release occurring exceeds that which can be contained and collected drilling operations will be suspended until released volumes can be brought under control - continue focused monitoring to ensure additional fluid releases have not occurred	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
228	If a fluid release occurs, the HDD Contractor will contain and pump or vacuum up the fluid. On land the fluid that can not be recovered will be diluted and removed from vegetation by washing with water.	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
229	If the amount of any drilling fluid release, either on land or within the lake, exceeds that which can be feasibly contained and collected, drilling operations will be suspended and the HDD Contractor will notify LEC and the appropriate regulatory agencies. Drilling will not resume until LEC and the appropriate regulatory agencies have approved a plan for recommencing drilling.	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
230	All drilling fluid solids and cuttings will be contained and settled in tanks or sediment traps, which will be disposed of at an approved facility. Water used in the drilling fluid will be recovered and reused during HDD operations after filtering out cuttings. Once the HDD is complete, the water used in the drilling fluid will be disposed of with the solids at an approved facility.	C	LEC Project Team	Future Action	APP	\$4.2.3.7	
231	Avoidance of the spring spawning season will be considered as a possible additional measure for the final approach of the HDD to the receiving pit, which may have an increased potential for inadvertent release as cover over the drill path decreases (see HDD Contingency and Emergency Plan)	C	LEC Project Team	No Longer Applicable as per correspondence with MNRF	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
232	Monitor for inadvertent release of drilling fluids followed by containment if necessary (see HDD Contingency and Emergency Plan)	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
233	If required, planting of suitable vegetation at appropriate visual receptor locations will provide a screen, to facilitate reducing the visibility of the Haldimand Converter Station.	C	LEC Project Team	As required	APP, IR	\$6.2.1.14, p 6-68 \$6.2.1.15, p 6-72 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
234	Post-construction landscaping and rehabilitation plans will include plants appropriate to the setting.	C	LEC Project Team	Future Action	APP, IR	\$6.2.1.12, p 6-61 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
235	Install plantings in accordance with the Landscaping and Planting Plan	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
236	Conduct ground maintenance and weed control in accordance with the Landscaping and Planting Plan	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
237	LEC will monitor piezometric levels in three monitoring wells installed on the Haldimand Converter Station site to confirm static conditions and to determine the range of seasonal fluctuations to confirm pre-construction conditions.	PC	LEC Project Team	Future Action	APP	\$6.2.1.4, p 6-37	
238	Monitor seasonal fluctuations in groundwater levels to confirm pre-construction conditions	PC	LEC Project Team	Future Action	APP, IR	App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
239	LEC will undertake appropriate monitoring during construction to ensure all environmental thresholds and limitations are respected and work does not cause environmental damage.	C	LEC Project Team	Future Action	APP	\$6.3.1.2	
240	The underwater HVDC cable installation will be monitored to determine the potential presence of obstacles/features within the cable route that may not have been [previously] detected.	C	LEC Project Team	Future Action	APP	\$6.3.1.2	
241	Monitoring systems will confirm appropriate burial depth as the cable is being installed.	C	LEC Project Team	Future Action	IR	IR 5.2a	
242	In-Water Cable Burial Survey LEC shall file with the Board, within sixty (60) days after the completion of the in-water cable installation: a) drawings and maps confirming the burial depth of the cable along the inwater cable route; b) a report that documents and communicates any locations where the cable installation did not reach the minimum burial depth as identified by LEC; c) a description of how LEC mitigated the risks associated with shallower than planned burial depths, where encountered; and d) an impact analysis of any mitigation measures taken in response to burial depths shallower than the minimum burial depth, including the locations identified, mitigation measures taken and the impact of the applied mitigation	C	LEC Project Team	Future Action	EC	Condition 33	
243	Anchor Drops and Cable Integrity LEC shall file with the Board, within sixty (60) days after the completion of the in-water cable installation: a) a list of any anchor drop risk areas identified along the Canadian portion of the cable route; b) a list of the appropriate Canadian authorities that have been notified of such risks; and c) a letter of confirmation that LEC has communicated to those authorities the locations of the identified anchor drop risks and of the areas where cable burial is less than the minimum burial depth as identified by LEC.	C	LEC Project Team	Future Action	EC	Condition 34	
244	Undertake visual monitoring for wildlife as part of daily inspections	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
245	Pre-Disturbance Bird Surveys In the event of construction or clearing activities within restricted activity periods for migratory birds, LEC shall: a) retain a qualified avian biologist to carry out pre-construction surveys in accordance with Environment and Climate Change Canada's guidance to identify any migratory and other breeding birds and active nests in and around the Project site; and b) file with the Board, within fourteen (14) days post commencement of construction or clearing: i) the results of the surveys; ii) a description of the mitigation, including monitoring, developed in consultation with government authorities, to protect any identified migratory and other breeding birds and their nests; and iii) a letter of confirmation that LEC has consulted with the appropriate provincial and federal regulatory authorities in relation to matters set out in a), b) i, and b) ii.	C	LEC Project Team	Future Action	EC	Condition 31	
246	Appropriate notifications will be provided to the Minister, Canadian Coast Guard Marine Communications and Traffic Services Centre, mariners, and commercial and recreational traffic prior to and during installation activities.	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
247	LEC will notify the appropriate Canadian marine authorities as described in the Draft Environmental Protection Plan (Section 8.2 - Communications Requirements of the draft Navigation and Navigation Safety Plan). The appropriate marine authorities include all applicable Port Authorities; Vessel Traffic Services; Transport Canada; Canadian Hydrographic Service; and the Canadian Coast Guard.	C	LEC Project Team	Future Action	IR	IR 5.A.1a	
248	Use of required signals and lighting to identify temporary works associated with installation activities	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
249	Installation of the underwater HVDC cables in accordance with the installation methods and applicable regulations and guidance materials	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
250	Burial of the HVDC cables in the lakebed to protect the cables from damage due to shipping traffic, fishing activity and ice scour	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	

Lake Erie Connector (LEC) Commitments Tracking Table - Lake Erie LP

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 EC-056 (June 26/17)

Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
					Document [2]	§ or pg. reference	
251	Operations and Maintenance Manual LEC shall file with the Board, at least sixty (60) days prior to the commencement of operations, an Operations and Maintenance Manual for the LEC electrical system. The Manual shall require LEC to conduct documented audits of its records and inspections of the LEC electrical system and right of way to confirm LEC's conformity to the requirements of the Manual. The Manual shall also include a schedule or procedure for its yearly review and update, as appropriate, to remain current with regulatory requirements and accepted industry practice. The Manual, and the programs and procedures on LEC's records as required by the Manual, shall be made available to the Board for periodic review. The Manual should include, but not be limited to: a) type of maintenance followed by LEC; b) maintenance schedules according to the selected maintenance practice; c) operational procedures for steady state and transient conditions; d) maintenance and monitoring requirements and plans for the power line (terrestrial and in-water cable) and the Haldimand Converter Station; e) a public awareness program for the life of the Project that: i) promotes public awareness of ongoing hazards associated with the Project; and ii) provides contact numbers for the public to report issues and concerns; f) vegetation control plans and procedures for the power line's right-of-way and the Haldimand Converter Station footprint; g) training requirements for personnel implementing the Manual; and	C	LEC Project Team	Future Action	EC	Condition 36	
252	In order to address the potential increase in soil temperature from the underground AC and HVDC cables during operation, the trenches used for the majority of the installation would be back-filled with low thermal resistivity bedding material as necessary.	C	LEC Project Team	Future Action	APP, IR	§6.2.1.2, p 6-30 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
253	Once construction is complete, disturbed areas will be re-graded to pre-existing contours and repaved or re-seeded with an appropriate seed mix to reduce erosion and sedimentation potential. LEC will consult with Haldimand County and the Long Point Region Conservation Authority (LPRCA) to confirm the preferred seeding for the Haldimand Road 55 ROW.	C	LEC Project Team	Future Action	APP	§4.2.3.2 §6.2.1.3, p 6-32	
254	Once construction is complete, the area of the Haldimand Road 55 ROW will be returned to previous condition and roadside ditching will be restored. The underground cable route will be seeded as appropriate to return to its previous condition to the extent practical. LEC will submit the design to Haldimand County as part of the process to establish the permanent easement and will discuss revegetation of the Haldimand Road 55 ROW with Haldimand County to align with current municipal practice in the area. LEC will also address requirements for drainage on OPG lands in discussion with OPG and Hydro One, as the design of the AC cable and Terminal Station on the OPG land proceeds.	C	LEC Project Team	Future Action	APP	§6.2.1.4, p 6-36	
255	The HVDC and AC cable trenches located in the Haldimand Road 55 right-of-way will be restored in accordance with municipal and provincial requirements.	C	LEC Project Team	Future Action	IR	IR 4.5 a, b.1, b.2, b.3	
256	Restore construction area to original conditions to the extent practical and install above grade markers where the AC and HVDC transmission cables are buried outside of the public ROW[.]	C	LEC Project Team	Future Action	APP	§4.2.2.2 §4.2.3.2 §4.2.3.3	
257	Soils associated with construction near Haldimand Road 55 will be replaced back in this area once the construction is complete. Given the limited potential for any soil contamination and given that no requirements for offsite storage have been identified at this time, a plan for testing soils is not required.	C	LEC Project Team	Future Action	IR	IR 3.26c	
258	Restore soil profile using stockpiled excavated soils to the extent practical	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
259	Backfill and compact cable trenches to match the surrounding area and install above-grade markers where the AC and HVDC transmission cables are buried outside of the public ROW	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
260	Re-grade disturbed areas to pre-existing contours and repave, install gravel or re-seed with an appropriate seed mix as appropriate to reduce erosion and sedimentation potential	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
261	Monitor the Haldimand Converter Station site and the Haldimand Road 55 ROW as needed to ensure that issues are identified and addressed appropriately	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
262	Return depth contours to pre-existing conditions	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
263	For trenching on the Haldimand Converter Station site and in the ROW of Haldimand Road 55, a shored trench will be excavated. Spoils from the Haldimand Converter Station site will be managed in-situ and spoils along the Haldimand Road 55 ROW will be managed at the Haldimand Converter Station site.	C	LEC Project Team	Future Action	APP, SUP	§4.2.3.3 Supplementary Evidence Attachment 4 (Feb 26/16)	
264	Excavated soils will be temporarily stockpiled within the worksite or transported to the Haldimand Converter Station property. Topsoil will be stored separately from excavated subsoil to facilitate reuse. Materials that may be hauled off-site for disposal will be tested to ensure compliance with Ontario disposal regulations. Soil stockpiles will be protected by appropriate erosion and sedimentation control where the potential exists for sediment transport off-site.	C	LEC Project Team	Future Action	APP, IR, SUP	§4.2.3.2 §6.2.1.2, p 6-29 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15) IR 3.26a Supplementary Evidence Attachment 2 (Feb 26/16) Supplementary Evidence Attachment 4 (Feb 26/16) Supplementary Evidence Attachment 7 (Feb 26/16)	
265	Excavated soils [from HDD] will be temporarily stored on site during construction and will be used to restore the site to its previous grade once the drilling process has been completed, or transported for disposal/reuse at an approved location.	C	LEC Project Team	Future Action	APP	§4.2.3.7	
266	Appropriate spill prevention and containment measures for hydraulic fluids or fuels will be applied during construction. Construction crews will have spill response procedures and spill response absorbent pads in their construction vehicles.	C	LEC Project Team	Future Action	APP	§4.2.3.2	
267	During excavation, appropriate measures such as grading and / or sandbags (if required) would be applied to minimize potential surface water runoff into the trench. Post construction, surface water would be directed to roadside ditches.	C	LEC Project Team	Future Action	IR	IR 4.5 a, b.1, b.2, b.3	
268	Water removed from excavated trenches will be discharged to an upland vegetated area off the roadway. It will be discharged through a "pumped water filter bag" surrounded by a compost filter sock ring that will overflow into existing roadway ditches or upland area. There will be no direct discharges to roadside ditches.	C	LEC Project Team	Future Action	APP	§4.2.3.2	
269	Implement Stormwater Management Plan as described in the EPP and the associated Civil Grading Plan	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
270	Site grading will [be implemented to] convey stormwater flows without adverse impact to other properties.	C	LEC Project Team	Future Action	APP	§4.2.2.1	
271	Continue surface water management in accordance with the Stormwater Management Plan	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
272	CSR's January 2016 Marine Geophysical Survey Results Report (Response to IR No. 3 Attachment 3) recommended that additional surveys be undertaken including a Remotely Operated Vehicle Survey, Grapnel Survey and a Clearance Survey. These further surveys will be included in the Project construction plan and undertaken as an initial construction activity or during the construction process, as appropriate. LEC will carry out the additional surveys recommended by CSR referred to in 4.14 b), as appropriate.	C	LEC Project Team	Future Action	IR	IR 4.14b IR 4.14c	
273	During cable installation in the Haldimand Road 55 ROW, a single lane will remain open for local traffic and on-site traffic control will be provided with the exception of the HDD crossing of the shoreline.	C	LEC Project Team	Future Action	APP, IR	§4.2.3.2 §6.2.1.11, p 6-57 §6.2.1.14, p 6-68 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
274	Implement Temporary Traffic Control Plan measures along Haldimand Road 55 including: - construction of a temporary paved lane on the existing granular shoulder on the west side of the roadway - placement of temporary pavement markings as appropriate - installation of temporary concrete barriers along the length of the work area along Haldimand Road 55 to shift traffic to the west side of the centerline of the road and provide work zone protection	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
275	Redirect traffic accessing Hickory Beach Lane from Haldimand Road 55 for approximately three months to an alternate access via Erie Street	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
276	Redirect traffic accessing the western entrance to the former Nanticoke Generating Station for approximately two weeks to an alternate access via South Coast Drive	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
277	Staff qualified in first aid and having valid hazardous materials training will inspect safety measures, including polluting and hazardous materials, during construction for applicable construction areas and will be responsible for dealing with immediate situations as well as reporting to and coordinating with local emergency response personnel. This person(s) will be trained in the protocols of the Lake Erie Connector Emergency Repair and Response Plan to ensure a properly coordinated response.	C	LEC Project Team	Future Action	APP	§6.3.1.1	
278	Monitor weather conditions on a daily basis during construction	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
279	Suspend construction activities if warranted by the weather conditions (e.g., electrical storms)	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
280	Maximize outdoor construction work during non-winter months in order to avoid potential issues with heavy snow or ice accumulation	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	

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Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
					Document [2]	\$ or pg. reference	
281	Conduct the HVDC cable installation in Lake Erie in the spring or summer	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
282	Maintain setback of approximately 15 m to the woodland/wetland block adjacent to the Haldimand Converter Station site to minimize impacts to species and/or habitat	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
283	Comply with the Migratory Birds Convention Act, by - timing the work to avoid potentially harmful activity during the bird nesting period - removing potential nesting habitat or making the site unsuitable/unattractive for nesting prior to the bird nesting period; and/or - monitoring for active nests and applying protective setbacks from nests until such nests are no longer in active use during that season	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
284	Brief the construction contractor's site supervisor, staff, workers and subcontractors on measures to report observations of potential nesting activity to the Environmental Compliance Manager and a qualified on-call biologist who will attend the site and confirm the presence and locations of nests	C	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
285	Should an active nest be identified, work near the nest will be temporarily discontinued and a protective setback will be applied that is appropriate to the species and specific to the setting of the nest and the observed behaviour of the nesting birds. The nest will be periodically monitored from a distance and the setback will be maintained until nesting activity has ceased for the season.	C	LEC Project Team	As required	IR, SUP	IR 3.A.1.7e Response to IR 3A Attachment 4 (Mar 11/16) Supplementary Evidence Attachment 1 (June 24/16)	
286	Report any incidents with wildlife (e.g., aggressive or nuisance behaviour) to the Environmental Compliance Manager, who will immediately notify the appropriate local and provincial agencies	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
287	Report any trapped, injured or deceased wildlife within the construction areas to the Environmental Compliance Manager, who will contact the applicable provincial authorities to consult on appropriate action	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
288	Report any wildlife collisions to the Environmental Compliance Manager, who will notify the applicable provincial authorities and local law enforcement (if necessary)	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
289	Once the appropriate authorities have been notified as listed above, the Environmental Compliance Manager will notify LEC environmental personnel	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
290	Document all wildlife encounters in detail, including the date, location, wildlife species encountered, type of encounter, and any actions taken by personnel to address the situation	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
291	If any non-migratory bird or other terrestrial Species at Risk (SAR) individuals are encountered, the local Ministry of Natural Resources and Forestry (MNRF) District Office will be contacted; and for any migratory bird SAR listed under schedule 1 of the Species at Risk Act (SARA), Environment and Climate Change Canada (ECCC) will be contacted by email at ec.faune.ontario-wildlife.ontario.ec@canada.ca or by phone at 905-336-4464.	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
292	Suspend work in the vicinity of the observed SAR until: - the Environmental Compliance Manager has been notified - the Environmental Compliance Manager has assessed the discovery with the qualified on-call biologist - if the SAR observation is confirmed, the applicable regulatory agencies have been notified, including the local MNRF district office, and ECCC as appropriate - LEC environmental personnel have been notified of a confirmed SAR observation - appropriate mitigation has been undertaken	C	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
293	The construction contractor's site supervisor, staff, workers and subcontractors will be briefed on measures to report observations of potential nesting activity to an on-call biologist who will attend the site and confirm the presence and locations of nests.	C	LEC Project Team	Future Action	IR	IR 3.A.1.7d Response to IR 3A Attachment 4 (Mar 11/16)	
294	A small woodland area is located in the southeast corner of the property, but will not be directly disturbed by the Project as a separation distance of over approximately 15 m will be maintained between the footprint of the facility and this woodland during construction.	C	LEC Project Team	Future Action	APP, SUP	§4.1.3 Supplementary Evidence Attachment 4 (Feb 26/16)	
295	Visual monitoring would be undertaken as part of daily inspections and any wildlife inadvertently accessing the trenches would be removed in accordance with protocols established as part of the EPP.	C	LEC Project Team	Future Action	IR, SUP	IR 3.21a IR 3.21c IR 3.21d IR 3.24c Supplementary Evidence Attachment 3 (Feb 26/16) Supplementary Evidence Attachment 6 (Feb 26/16)	
296	The ERPs for construction and operations are expected to include the primary components listed below. Additional detail has been provided regarding the anticipated contents of each ERP section (in response to IR 6.1c). - Introduction - ERP Development, Training and Maintenance - Safety Policy - Environmental Policy - Emergency Preparedness and Response Policy - Distribution List - Emergency Levels and Definitions - Emergency Contacts - Responsibilities - Activation and Notification - Response Action Plans - Post Emergency Actions	C; O	LEC Project Team	Future Action	SUP	Supplementary Response to IR 6.1c (Jul 6/16)	
297	The notification procedures in the event of an emergency will be detailed in the draft ERPs. The notification procedures will be developed based on guidance as included in CSA Standard Z731-03 Emergency Preparedness and Response and NERC Standard EOP-001-2b – Emergency Operations Planning. The notification procedure will describe: - who is responsible for notification and reporting; - to whom notifications and reports are to be made - internally (e.g., management); and - externally (e.g., police, fire, regulatory agencies, and other public authorities); - when notifications and reports are to be made (e.g., immediately, within 24 h); and - how notifications and reports are made (e.g., by telephone, by e-mail). Notification procedures will consider the classification level of the emergency and/or hazard identified. The list of entities and the notification procedure will be confirmed with interested agencies during the consultation process.	C; O	LEC Project Team	Future Action	SUP	Supplementary Response to IR 6.1e (Jul 6/16)	
298	Based on the consultation as outlined in the response to IR 6.1a, LEC will develop and confirm the list of entities that will require LEC to file the ERPs with the entity, and the frequency of updates for the ERPs. The confirmed list of entities will be included in the ERPs to be provided to the NEB when completed.	C; O	LEC Project Team	Future Action	SUP	Supplementary Response to IR 6.1f (Jul 6/16)	
299	The Safety Coordinator will monitor on-site hazards and conditions and perform hazard inspections at least once a month to ensure compliance with the Occupational Health and Safety Act (OHSA); however, if it is not practical to conduct the inspections once a month, the Safety Coordinator will conduct inspections at least once a year, inspecting at least a part of the workplace every month. The Safety Coordinator will review health and safety records, as applicable, at least every two years.	C; O	LEC Project Team	Future Action	SUP	Supplementary Response to IR 6.1b (Jul 6/16)	
300	The Safety Coordinator will be consulted when changes are made to equipment, materials, or processes that may affect the safety of operations. This proactive safety approach will ensure that the Safety Coordinator evaluates all equipment and processes for compliance with applicable safety rules and regulations.	C; O	LEC Project Team	As required	SUP	Supplementary Response to IR 6.1b (Jul 6/16)	
301	Implement landscaping and planting plan as detailed in the Landscaping and Planting Plan and associated design drawing	C; O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
302	LEC confirms that the Navigation and Navigation Safety Plan will be adhered to during cable repair activities.	C; O	LEC Project Team	Future Action	IR	IR 7.14a	
303	LEC will develop and maintain a robust maintenance plan for the Project, and will include in the maintenance plan the identification of specific equipment requiring specialized maintenance and a description of the applicable maintenance practices. A typical testing and inspection plan will be prepared once the technical specifications are completed and final equipment selections are made. A separate maintenance strategy will not be developed; rather, the maintenance plan will address all maintenance-related matters. The maintenance plan will be completed once detailed design is finished; it is expected that the maintenance plan will be submitted to the Board by early 2019 based on the current Project schedule. Electrical maintenance will be part of the quality management system.	C; O	LEC Project Team	Future Action	IR	IR 1.2j, k, m, n (Aug 4/15) Response to IR 1 Attachment 1 (Dec 18/15)	
304	Implement spills contingency protocols and procedures as described in the Spill Prevention and Contingency Plan	C; O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
305	LEC will implement the Stormwater Management Plan and construct vegetated swales to provide quantity and quality control for the surface runoff from the Haldimand Converter Station site.	C; O	LEC Project Team	Future Action	APP, IR	§6.2.1.4, p 6-38 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	

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Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
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306	Implement waste management procedures during construction and operation as described in the Waste Management Plan (EPP)	C; O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
307	The following general guidelines will be applied: - where a choice of equivalent products exists to perform the same function, the least hazardous product will be chosen - all reasonable preventative measures to avoid the release of waste or hazardous materials to the environment will be undertaken - waste and hazardous material spills will be reported to the Environmental Compliance Manager and, in accordance with regulations, to the appropriate regulatory authorities - spills will be cleaned-up immediately and thoroughly as specified by the Spill Prevention and Contingency Plan - whenever possible, wastes will be recycled - hazardous products and waste materials will, to the extent possible, be disposed of or moved to a secure staging area on a daily basis	C; O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
308	All excavation and shoring work will conform to OHSA.	C; DEC	LEC Project Team	Future Action	APP, IR	§6.2.1.2, p 6-29 §6.2.1.2, p 6-30 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
309	[Dust and vehicle] Emissions during construction will be controlled by: - Compliance with local municipal by-laws regarding working/construction hours - Implementing protocols minimizing engine idling and maintain vehicles - Dust control during construction through various operational methods such as watering, staging of work, and re-vegetation of disturbed areas	C; DEC	LEC Project Team	Future Action	APP, IR	§6.2.1.8, p 6-45 §6.2.1.8, p 6-46 §6.2.1.8, p 6-47 §6.2.1.11, p 6-57 §6.2.1.14, p 6-68 §6.2.1.15, p 6-71 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
310	[Noise] Emissions during construction will be controlled by: - Compliance with local municipal by-laws regarding working/construction hours - Implementation of a protocol minimizing engine idling and use of air brakes - Use of shielding to mitigate noise from HDD installation to the degree practical	C; DEC	LEC Project Team	Future Action	APP, IR	§6.2.1.9, p 6-50 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
311	[T]he Project will operate within the terms and conditions of interconnection agreements between LEC, Penelec and PJM, and LEC and Hydro One. The Project will be operated in compliance with applicable IESO and PJM operating requirements and criteria as articulated in the IESO Market Rules and the PJM Open Access Transmission Tariff. These requirements include the duties of maintaining acceptable voltages, keeping equipment operating within established ratings, and maintaining system stability, both during normal operation and under recognized contingency conditions on the transmission system	O	LEC Project Team	Future Action	APP	§4.2.5.5 §4.3.5	
312	[T]he Project facilities will be subject to NERC, NPCC, and ReliabilityFirst reliability standards. LEC will comply as necessary with reliability standards, respecting critical infrastructure protection, including security management controls, to protect the operation, performance, integrity and reliability of the physical and cyber assets of the international power line and to provide demonstrable evidence of the reliability of the power system.	O	LEC Project Team	Future Action	APP	§4.3.6	
313	LEC will, of course, operate the Project in compliance with all applicable IESO, NPCC, NERC and other reliability standards and criteria.	O	LEC Project Team	Future Action	IR	IR 4.17c	
314	Compliance Reporting LEC shall file with the Board, within thirty (30) days of the date that the approved Project is placed in service, a confirmation, by an officer of LEC, that the approved Project was completed and constructed in compliance with all applicable conditions in this Certificate. If compliance with any of these conditions cannot be confirmed, the officer of LEC shall file with the Board details as to why compliance cannot be confirmed. The filing required by this condition shall include a statement confirming that the signatory to the filing is an officer of LEC.	O	LEC Project Team	Future Action	EC	Condition 40	
315	Annual Filing Requirements LEC shall file with the Board, prior to 31 January, on an annual basis, the following information: a) confirmation that LEC is still the owner and operator of the Project and the current contact information for LEC including: i) corporate headquarters street and mailing address; ii) phone number; iii) fax number; iv) email address; v) the name and job title of an officer of LEC for the Board to serve documents on as required; and vi) the name and job title of a secondary contact at LEC; b) current insurance certificate(s) and updated details regarding the insurance and other financial instruments such as promissory note, line of credit, letter of credit or parental guarantees held by LEC to address its financial resource requirement that will enable LEC to respond to and cover any potential costs associated with a potential Project incident of at least \$15 million; c) demonstration of readily accessible financial requirements for funds of at least \$1.5 million using acceptable financial instruments such as cash on hand, secured line of credit or letter of credit; d) reporting of the accrued finances for the set-aside of abandonment funds; e) a filing that complies with the provisions of Board Order MO-036-2012 electric reliability; f) import and export flow data organized by month for the previous calendar year; g) an updated commitments tracking table as per Certificate Condition 8; h) the amount of contracted supply in megawatts by type of generation source (where possible); and i) confirmation that no changes were made to LEC's compliance program, safety manual, or operations and maintenance manual. If any changes have been made LEC is to provide a rationale and description of the change(s) if not already provided to the Board.	O	LEC Project Team	Future Action	EC	Condition 41	
316	Routine equipment maintenance and regular equipment inspections will be carried out to minimize the risk of inadvertent emissions to air.	O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
317	LEC will implement a landscaping plan for the area outside the perimeter fence.	O	LEC Project Team	Future Action	APP, IR	§6.2.1.3, p 6-33 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
318	LEC will implement a weed control program as required during operations, particularly in the period of time that it takes to establish a landscaping plan for the Haldimand Converter Station.	O	LEC Project Team	Future Action	APP	§6.2.1.3, p 6-33 App D, Table D-1	
319	Vegetation (native grasses, perennials) will be planted on the site near the Haldimand Converter Station as part of the facility landscaping plan.	O	LEC Project Team	Future Action	APP, IR	§6.2.1.3, p 6-33 Response to IR 1&2 Attachment 3 (Sept 18/15)	
320	Ground maintenance, weed killing and pest control will be performed on the converter station site.	O	LEC Project Team	Future Action	IR	Response to IR 1 Attachment 1 (Dec 18/15)	
321	Planned maintenance tasks will include: - Periodic, scheduled shut-downs of the Haldimand Converter Station for equipment inspections, testing and replacement - Vegetation management in the maintained buffer area around the Haldimand Converter Station - Periodic, scheduled start-up of the emergency generator	O	LEC Project Team	Future Action	APP	§4.2.5.4	
322	LEC will routinely maintain and inspect equipment for leakage.	O	LEC Project Team	Future Action	APP	§6.2.1.8, p 6-47	
323	Scheduled maintenance activities will be undertaken comprising the following: - Weekly and monthly visual inspections; - Quarterly, every six months and annual non-outage maintenance; and - Annual outage maintenance.	O	LEC Project Team	Future Action	IR	Response to IR 1 Attachment 1 (Dec 18/15)	
324	Specialist subcontractors required to maintain the ancillary systems within the substation compounds will be supervised by LEC's lead for facility maintenance.	O	LEC Project Team	Future Action	IR	Response to IR 1 Attachment 1 (Dec 18/15)	
325	The diesel generator will be started on a weekly/periodic basis.	O	LEC Project Team	Future Action	IR	Response to IR 1 Attachment 1 (Dec 18/15)	

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 EC-056 (June 26/17)

Number	Commitment Description	Project Stage[1]	Accountable Lead	Status	Where Commitment Made		Comments
					Document [2]	\$ or pg. reference	
326	The outdoor cooling circuit equipment will be regularly inspected and maintained.	O	LEC Project Team	Future Action	IR	IR 4.10 (HC-02)	
327	LEC is committed to operational excellence and LEC maintains a systematic program across its operating units to identify and replace broken, obsolete or high-maintenance equipment. LEC will maintain this same program for the Project to ensure high levels of system reliability and safety over the Project's life.	O	LEC Project Team	Future Action	IR	IR 1.2j; k, m, n (Aug 4/15) IR 1.2i (Aug 4/15)	
328	A managed setback of approximately 15 m will be maintained to the west of the woodland/wetland block [on the Haldimand Converter Station property].	O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 2 (Feb 26/16)	
329	The area surrounding the Haldimand Converter Station will be maintained, to ensure a minimum separation distance of 6 m between tall vegetation and the fence around the station.	O	LEC Project Team	Future Action	APP	\$4.2.2.4 \$6.2.1.3, p 6-31	
331	Maintenance Plan Overview for Converter Station and AC & HVDC cables submitted to the NEB on December 18, 2015 contained commitments regarding maintenance including description and scheduled frequency.	O	LEC Project Team	Future Action	IR	Supplemental Response to IR 1 Attachment 1 (Dec 18/15)	
332	LEC will monitor the Haldimand Converter Station site and the AC and HVDC cable routes as needed to ensure that issues are identified and addressed appropriately. Post-construction monitoring procedures will be designed to address any issues identified by LEC and its design team, as well as those identified by landowners and stakeholders through the public consultation program. Post-construction monitoring [will be conducted over two years, and on an as-needed basis thereafter to address issues that may continue or arise beyond that point, and] will include monitoring and inspection of: - Haldimand Converter Station lands, the ROW of Haldimand Road 55 and on OPG lands for trench subsidence - Reclamation status on the Haldimand Converter Station lands for those lands that were replanted after construction and along the cable routes - Performance of the stormwater management system - Plantings on the Haldimand Converter Station property and as necessary in off-site locations, in the event that planting is undertaken at a point of reception to address visual effects The area of the Haldimand Converter Station property that is not used permanently and the cable routes for previous weeds	O	LEC Project Team	Future Action	APP	\$4.2.5.3 \$6.3.1.2	
333	Post-Construction Environmental Monitoring for Terrestrial Route LEC shall file with the Board, on or before 31 January of each of the first, second, and third growing seasons following completion of construction of the Project, a post-construction environmental monitoring report for the terrestrial portion of the Project that: a) identifies any environmental issues that arose during construction or in the course of the previous year; b) describes the methodology used for monitoring, the criteria established for evaluating success and the results found; c) describes measures LEC has taken to correct the issues; d) describes current status of the issues in a) and whether the issues are resolved or unresolved; e) assesses the effectiveness of the mitigation (planned and corrective) measures applied against the criteria for success identified in b); and f) provides a schedule for and description of further proposed measures that LEC will take to address any issues identified and unresolved in a) and d). All filed post-construction environmental monitoring reports must address issues related to soils and weed management, as well as any other environmental issues that arose during or after construction	O	LEC Project Team	Future Action	EC	Condition 32	
334	Operation of the underwater HVDC cables in accordance with the methods and applicable regulations and guidance materials	O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
336	Application of the same mitigation measures as applied during construction in the event that cable repair is required	O	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
337	Notification to the Canadian Hydrographic Service in writing on completion of the underwater HVDC cable installation to facilitate the addition of the cable route to nautical charts and publications to minimize the risk associated with anchor drop	O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
339	Operation of High Voltage Direct Current (HVDC) Transmission Line and Converter Station (HVDC Link) a) LEC shall operate the HVDC Link as per design and specifications consistent with the electrical reliability standards applicable to the Project; and b) LEC shall inform the Board of any operational deviation from design and specifications, within forty-eight (48) hours of such operational deviation occurring, and shall file with the Board, within sixty (60) days after the operational deviation has occurred, a written report that shall include: i) the reasons why the deviation occurred; ii) analysis of potential negative implications of the deviation to the HVDC Link; and iii) mitigation strategies for the implications identified in paragraph b) and when the mitigation was or will be implemented	O	LEC Project Team	Future Action	EC	Condition 39	
340	Potential equipment failures and potential impacts that could significantly affect the availability of the Project will be identified early in the development of the detailed Operations and Maintenance strategy. Contingency plans, including a strategic spare equipment policy, will be developed to ensure a swift return to service if an equipment failure occurs to ensure maximum reliability and availability of the Project.	O	LEC Project Team	Future Action	SUP	Supplemental Response to IR 1 Attachment 1 (Dec 18/15)	
341	Implement repair contingency protocols and procedures as described in the Repair Contingency Plan	O	LEC Project Team	As required	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
342	In the event that an AC or HVDC cable repair is required, LEC will deploy erosion, sediment control and surface water control measures in the cable routes.	O	LEC Project Team	As required	APP	\$6.2.1.4, p 6-38	
343	The Restoration/Reclamation Plan will be developed to re-vegetate the Haldimand Converter Station following decommissioning.	O	LEC Project Team	Future Action	APP, IR	\$6.2.1.3, p 6-33 \$6.3 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
344	Install appropriate traffic signage on-site	O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
345	Operating and field maintenance staff for the Project will receive all required and appropriate training including training on electrical safety.	O	LEC Project Team	Future Action	IR	IR 1.2o (Aug 4/15)	
346	Field staff will be required to undergo: - Category B and Category C training as outlined in Response to IR 7 Attachment 1; and - Safety Training, the details of which are under development.	O	LEC Project Team	Future Action	IR	Response to IR No. 7 & Supplementary Evidence (July 29/16)	
347	System Operators will be required to: - Undergo Category C1 training as outlined above; - Hold Transmission Operator (TOP) and Market Entity Certification (as required); - Hold North American Electric Reliability Corporation (NERC) Certification; - Hold Qualifications per the Operating Agreement that LEC will be developing with the regional transmission organizations (RTO); and - Complete on-going Continuing Education Hours (CEH)	O	LEC Project Team	Future Action	IR	Response to IR No. 7 & Supplementary Evidence (July 29/16)	
348	Implement stormwater management best practices in accordance with the Stormwater Management Plan	O	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
349	Undertake landscaping to restore the site to pre-construction conditions to the extent practical, and include plants appropriate to the setting	DEC	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
350	The AC and HVDC cables will be abandoned in place, limiting the potential effect of decommissioning. The AC and HVDC cables are comprised of solid, stable materials that are not anticipated to deteriorate over time.	DEC	LEC Project Team	Future Action	APP, IR	Throughout \$6.2.1 and \$6.2.2 App D, Table D-1 Response to IR 1&2 Attachment 2 (Sept 18/15)	
351	[U]pon decommissioning of the Project, the Haldimand Converter Station will be dismantled and removed, and the site will be reclaimed and restored as close to pre-disturbance condition as practical.	DEC	LEC Project Team	Future Action	APP, IR	\$4.2.2.4 \$6.2.1.4, p 6-38 App D, Table D-1 Response to IR 1&2 Attachment 3 (Sept 18/15)	
352	Re-vegetation will occur with the removal of the Haldimand Converter Station and related facilities.	DEC	LEC Project Team	Future Action	APP	\$6.2.1.3, p 6-33 \$6.2.1.4, p 6-38	
353	Consult with Haldimand County and the local community on the restoration and end use of the Haldimand Converter Station site, which may be returned to agricultural production	DEC	LEC Project Team	Future Action	SUP	Supplementary Evidence Attachment 1 (June 24/16)	
354	Certificate Expiration Clause Unless the Board otherwise directs prior to [three years from the date of the grant of the Certificate], this Certificate shall expire on [same date as noted before in this condition] unless construction in respect of the Project has commenced by that date.	PC	LEC Project Team	Future Action	EC	Condition 2	
355	Ownership and Operator The international power line and its associated facilities to be constructed and operated pursuant to this Certificate (the Power Line) shall be owned and operated by LEC LLC.	ALL	LEC Project Team	In Progress	EC	Condition 5	

Lake Erie Connector (LEC) Commitments Tracking Table - Lake Erie LP

Canadian Commitments

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356	Change of Ownership or Operator LEC shall not sell, convey, lease, or otherwise transfer the Power Line to any person, in whole or in part, without leave of the Board.	ALL	LEC Project Team	As required	EC	Condition 6	
357	United States (US) Approvals LEC shall file with the Board, at least sixty (60) days prior to the commencement of construction, confirmation by an authorized officer of the company that all necessary US federal and state permits and regulatory approvals regarding electrical standards and installation practices have been received for the US portion of the LEC Connector Project.	PC	LEC Project Team	Future Action	EC	Condition 16	
358	As-built Drawings LEC shall file with the Board no later than sixty (60) days after the commencement of operations as-built drawings identifying the location of all facilities including, but not limited to, the converter station, cables, and in-water protection mats.	O	LEC Project Team	Future Action	EC	Condition 42	
359	An updated project construction schedule with the new in-service date and any other consequential adjustments will be filed in due course.	D; PC; C	LEC Project Team	Complete	FIL	Letter re: Updated Project Schedule (Aug 2/16)	Schedule updates provided to the NEB/CER on: - August 2, 2016 - October 14, 2016 - May 9, 2018 - October 4, 2019 - March 16, 2020 - September 29, 2021