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G. APPROVAL AMENDMENT APPLICATION

G.1 APPLICATION

Requirement

AR 113/93 reference: 3(1)(a) the name and address of the applicant;

Provided

Connacher Oil and Gas Limited (Connacher) makes application under Part 2, Division 2 of the *Environmental Protection and Enhancement Act* (EPEA) for approval to construct and operate the Great Divide SAGD Expansion Project. The information provided in this application is in compliance with the requirements of Alberta Regulation 113/1993. Each sub-section in the regulation is cross-referenced to the relevant section in the preceding documentation to facilitate the review process. The name and address of the applicant is provided in Section A.4.1 and below.

Mr. Steve De Maio, Vice President Project Development Connacher Oil and Gas Limited Suite 900 Centrium Place 332 – 6th Avenue S.W. Calgary, Alberta T2P 0B2

G.2 PROJECT DESCRIPTION

Requirement

AR 113/93 reference: 3(1)(b) the location, capacity and size of the activity to which the application relates:

AR 113/93 reference: 3(1)(c) the nature of the activity, the change to the activity or the amendment, addition or deletion, as the case may be;

Provided

The location and description of the Great Divide SAGD Expansion Project is provided in Section A.1, Figure A.1-1 and Figure A.1-2, and Section B.1.

G.3 ENERGY RESOURCES CONSERVATION BOARD APPROVAL

Requirement

AR113/93 reference: 3(1)(d) where the applicant requires an approval from the Energy Resources Conservation Board or the Natural Resources Conservation Board in relation to the activity, the date of the written decision in respect of the application;

Provided

An application to the Energy Resources Conservation Board (ERCB) is included in Parts A to H of this integrated application document. Connacher is requesting the following approvals from ERCB (refer to Section A.4.3):

- amend ERCB Scheme Approval No. 11253 and 11253A to expand the Algar CPF by an additional 3,800 m³ (24,000 barrels) of bitumen per day, pursuant to Sections 10 and 11 of *the Oil Sands Conservation Act* and Sections 3 and 33 of the Oil Sands Conservation Regulations;
- amend ERCB Scheme Approval No. 10587 (Great Divide) and 11253 (Algar) to amalgamate the
 bitumen recovery Project Areas to include the entire Great Divide Lease area (Table A.4.3.1) that
 includes 40 well pads and infrastructure encompassing approximately 521 ha over three phases of
 development;
- construct and operate additional distribution and gathering pipeline systems within the Project Area, pursuant to Section 4 of the *Pipeline Act*; and
- amend ERCB Scheme Approval No. 11253A to construct and operate an additional cogeneration unit which requires approval from the Alberta Utilities Commission (AUC), pursuant to Section 4 of the *Hydro and Electric Energy Act*.

Existing approvals for the Great Divide (Pod One) Project and the Algar SAGD Project are in Appendix 6.

G.4 ENVIRONMENTAL ASSESSMENT

Requirement

AR 113/93 reference: 3(1)(e) an indication of whether an environmental impact assessment report has been required;

Provided

As per Schedule 1 of AR 111/93 an Environmental Impact Assessment is required for this Project. Summaries of relevant environmental information are included in Part D of this integrated application. Specialized consultants have been hired to complete reports related to the Great Divide SAGD Expansion Project. These reports are included in the application as Consultant Reports (CR) #1 to #11.

G.5 EXISTING APPROVALS

Requirement

AR 113/93 reference: 3(1) (f) copies of existing approvals or registrations that were issued to the applicant in respect of the activity under this Act or a predecessor of this Act;

Provided

Copies of the existing EPEA, *Water Act* and ERCB Approvals for the existing Great Divide (Pod One) Project and Algar Project are included in Appendix 6.

G.6 PROJECT SCHEDULE

Required

AR 113/93 reference: 3(1)(g) the proposed or actual dates for construction commencement, construction completion and commencement of operation;

Provided

A project schedule is provided in Section A.6 and Table A.6.0.1.

G.7 EMISSIONS AND CONTROL

Required

AR 113/93 reference: 3(1)(h) a list of substances, the sources of the substances and the amount of each substance that will be released into the environment as a result of the activity, the change to the activity or the amendment, addition or deletion, as the case may be, the method by which the substances will be released and the steps taken to reduce the amount of the substances released;

Provided

The primary emissions from the Great Divide SAGD Expansion Project are related to air. A description of the predicted air emissions, from the Project plant site is found in Section D.1 and CR #1, Section 4.0. An additional assessment has been conducted for noise (Section D.7 and CR#7, Section 5.0)

A description of wastewater disposal is included in Section B.7.5. Drilling fluid and solid waste disposal is discussed in Section B.4.2. Surface runoff from the plant site is discussed in Section B.7.4.

A summary of Great Divide SAGD Expansion Project waste management program is included in Section B.9.2.4

G.8 ENVIRONMENTAL MONITORING SUMMARY

Required

AR 113/93 reference: 3(1)(i) a summary of the environmental monitoring information gathered during the previous approval or registration period;

Provided

A considerable amount of baseline data and monitoring was completed in the preparation of this application. This information has been provided in CR #1 to CR #11.

Regular surface and groundwater monitoring was completed for the Great Divide (Pod One) Project and the Algar Project (Section D.2.3.3, D.3.4.2 and D.3.2; CR#3, Section 2.2 and 3.0.

Regular wildlife monitoring has been completed for the Algar Project and Great Divide SAGD Expansion Project (CR #11a and b).

G.9 EMISSION CONTROL PERFORMANCE

Required

AR 113/93 reference: 3(1)(j) a summary of the performance of substance release control systems used for the activity during the previous approval or registration period;

Provided

Regular water monitoring has been performed for the Great Divide (Pod One) Project and the Algar Project and is discussed in Section D.3, and CR#3, Section 2.2, 3.0 (3.3.2), and 6.0.

A description of the predicted air emissions is found in Section D.1 and CR#1, Section 3.0 and 4.0; the proposed mitigation measures are included in Section 5.0.

The materials, energy, and water balance is included in Section B.6 and the water management program in Section B.7.

G.10 EMISSIONS JUSTIFICATION AND CONTROL

Required

AR 113/93 reference: 3(1)(k) the justification for the release of substances into the environment as a result of the activity, the change to the activity or the amendment, addition or deletion, as the case may be:

Provided

Air emissions are discussed in Section D.1.4 and CR# 1, Section 5.0 and 6.0. Noise emissions are discussed in Section D.8.3 and CR# 8, Section 6.0

G.11 WASTE MANAGEMENT

Required

AR 113/93 reference: 3(1)(l) the measures that will be implemented to minimize the amount of waste produced, including a list of the wastes that will or may be produced, the quantities and the method of final disposition of them;

Provided

Waste generated from the construction and operation of the Great Divide (Pod One) Project will be minimal. The measures that will be implemented to minimize the amount of waste produced and a list of the wastes, including the disposal methods, is provided in Section B.9.2.

G.12 ENVIRONMENTAL IMPACTS

Required

AR 113/93 reference: 3(1)(m) any impact, including surface disturbance, that may or will result from the activity, the change to the activity or the amendment, addition or deletion, as the case may be;

Provided

Baseline studies have been updated and impact assessments completed for the Project. These have been summarized in Section D and included in CR# 1 to 11.

G.13 EMERGENCY RESPONSE

Required

AR 113/93 reference: 3(1)(n) confirmation that any emergency response plans that are required to be filed with the local authority of the municipality in which the activity is or is to be carried on or with Alberta Public Safety Services have been so filed;

Provided

An Emergency Response Plan (ERP) has been filed with the Regional Municipality of Wood Buffalo (RMWB) for the Connacher SAGD development. The existing ERP will be updated to include the

expansion activities. A description of the emergency response plan to be developed for the Project is included in Section B.9.2.3.

G.14 ACCIDENTAL RELEASE CONTINGENCY PLANS

Required

AR 113/93 reference: 3(1)(o) confirmation that there are contingency plans in place to deal with any unforeseen sudden or gradual releases of substances to the environment;

Provided

Connacher already has in place an Environmental Management Program for the existing Great Divide (Pod One) Project and the Algar Project and already has or will have programs in place for the Great Divide SAGD Expansion Project. Connacher's Environmental Management Program is summarized in Section B.9.

G.15 CONSERVATION AND RECLAMATION

Required

AR 113/93 reference: 3(1)(p) the conservation and reclamation plan for the activity;

Provided

The conceptual reclamation and reclamation activities are discussed in Part E of the Application.

G.16 PUBLIC CONSULTATION

Required

AR 113/93 reference: 3(1)(q) a description of the public consultation undertaken or proposed by the applicant;

Provided

A summary of the Stakeholder Consultation Program that was undertaken is included in Part F. A traditional land use report is provided in Appendix 7.

G.17 SUPPLEMENTARY SUBMISSIONS

Required

AR 113/93 reference: 3(1)(r) information required under any other regulation under the Act to be submitted as part of or in support of the application;

Provided

No other submissions are being made under EPEA with respect to the Project.

G.18 ADDITIONAL INFORMATION

Required

AR 113/93 reference: 3(1)(s) any other information required by the Director, including information that is addressed in a standard, code of practice or guideline in respect of the activity that is published or adopted by the Department.

Provided

There is no other information required by the Director with respect to the Project. Connacher is also applying for approvals in accordance with the *Oil Sands Conservation Act* and *Water Act*.