

APPENDIX K
HAZARDOUS WASTE MANAGEMENT PLAN

This document is a preliminary Hazardous Waste Management Plan. A Hazardous Waste Management Plan for the construction phase will be finalized prior to initiating construction work at the site. A separate Hazardous Waste Management Plan will be developed prior to commissioning of the MGEC for implementation during operation of the facility. These plans will be developed in consultation with regulatory agencies having responsibility for hazardous waste management, including the BC Ministry of Environment and the Fraser-Fort George Regional District to ensure they meet regulatory requirements and incorporate the commitments made in this Application for an Environmental Assessment Certificate.

The Hazardous Waste Management Plan will be implemented in coordination with the Construction Waste Management Plan and the Spill Prevention and Contingency Plan and will ensure compliance with the provincial Hazardous Waste Regulation, 2006. Hazardous wastes as interpreted by the Regulation are defined in Table K-1 at the end of this plan. Mackenzie Green Energy LP (MGELP) will ensure that any wastes classified as hazardous that are generated at the MGEC are handled and disposed of in accordance with the Hazardous Waste Regulation.

Licensed haulers or recyclers will be retained to transport these wastes off-site in accordance with the requirements of the federal Transport of Dangerous Goods Act, 1996, the Transport of Dangerous Goods Regulation, 2002, and the provincial Environmental Management Act, 2003. For the protection of workers on site, a Workplace Hazardous Materials Information System (WHMIS) will be put in place as required by the Workers' Compensation Board of B.C.

Hazardous Waste Storage and Disposal

1. Any hazardous waste products produced at the MGEC during construction and operation of the facility, or during maintenance activities, that can not be reused or recycled will be disposed of at an approved hazardous waste disposal facility.
2. Hazardous wastes will be stored on-site in a designated hazardous waste storage area, away from any other wastes. There will be good ventilation in all storage areas. Further engineered controls include a concrete bund approximately 30 cm high which will hold any fluids should the materials leak or any runoff be created. Any liquids will flow to a holding tank.
3. Potential MGEC hazardous wastes include:
 - lubrication oil;
 - hydraulic motor oil;
 - gas;
 - diesel fuel;
 - paint;
 - solvent and cleaning products.
4. MGELP will consult with contractors and the design team before both the construction phase and the operational phase to determine in each case the hazardous wastes that can be expected to be generated onsite. As appropriate, this list will be updated regularly to reflect new information on the types of hazardous wastes on site.

5. An inventory of hazardous wastes will be prepared. This will list all designated hazardous waste that enters and leaves the hazardous waste storage area.
6. All hazardous wastes on site will be disposed of according to the Hazardous Waste Regulations.
7. MGELP will:
 - use licensed haulers according to the Transport of Dangerous Goods Regulation;
 - use WHMIS labeling and attach labels on storage containers when waste is stored on site temporarily;
 - ensure TDG placards are placed on all trucks once hazardous waste is loaded for transportation offsite;
 - keep an inventory of the waste leaving the site and a manifest of the transportation and disposal procedures.

Table K-1 Hazardous Waste as Defined in Part 1 - Interpretation and Application - of the Hazardous Waste Regulation, 1988 (up to BC Reg. 261/2006)

- (a) dangerous goods if they
 - (i) are no longer used for their original purpose, and
 - (ii) meet the criteria for Class 2, 3, 4, 5, 6, 8 or 9 of the federal dangerous goods regulations,

including those that are recycled, treated, abandoned, stored or disposed of, intended for recycling, treatment or disposal or in storage or transit before recycling, treatment or disposal,
- (b) PCB wastes,
- (b.1) biomedical wastes,
- (c) wastes containing dioxin,
- (d) waste oil,
- (e) waste asbestos,
- (f) waste pest control product containers and wastes containing pest control products,

including wastes produced in the production of treated wood products using pest control products,
- (g) leachable toxic waste,
- (h) waste containing tetrachloroethylene,
 - (h.1) wastes listed in Schedule 7,
 - (h.2) Repealed. [B.C. Reg. 261/2006, s. 1 (b).]
- (i) waste containing polycyclic aromatic hydrocarbon, and

(i.1) Repealed. [B.C. Reg. 319/2004, s. 3 (e).]

but does not include

- (j) household refuse that is collected from residential premises,
- (k) domestic sewage,
- (l) dangerous goods that are defective, surplus or otherwise not usable for their intended purpose and that are in the process of being returned directly to a manufacturer or supplier,
- (m) asphalts and tars used in the manufacture of asphaltic concrete and roofing materials,
- (n) and (o) Repealed. [B.C. Reg. 214/2004, s. 1 (l).]
- (p) waste wood products treated with wood preservatives or wood protection products registered under the *Pest Control Products Act* (Canada),
- (q) household hazardous waste that
 - (i) is removed from a return collection facility in accordance with an authorization from the owner of the return collection facility, and
 - (ii) is to be reused for its originally intended purpose,
- (r) wood ash, or pulp mill dregs and grit, that would be hazardous waste only because they are classified under the federal dangerous goods regulations as class 8, or
- (s) waste that
 - (i) has a pH greater than or equal to 11.5 and less than or equal to 12.5, and
 - (ii) would be a hazardous waste only because it is classified under the federal dangerous goods regulation as class 8;