

**TO:** CITY MANAGER **DATE:** 2000 04 20  
**FROM:** DIRECTOR ENGINEERING **FILE:** 60-10-01  
**SUBJECT:** CHEVRON CANADA LIMITED BURNABY REFINERY -  
AIR EMISSION NOTIFICATION PROCESS  
**PURPOSE:** To inform Council on the proposed Notification Process between Chevron, the G.V.R.D., Simon Fraser Health Region and the City with respect to emission events from Chevron Canada Limited Burnaby Refinery

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**RECOMMENDATION:**

1. **THAT** Council receive this report for information.
2. **THAT** a copy of this report be forwarded to:
  - (a) Mr. Barry Mills, Manager Air Quality, G.V.R.D., 4330 Kingsway, Burnaby, B.C., V5H 4G8;
  - (b) Mr. Tim Shum, Director Environmental Health Services, Simon Fraser Health Region, 4946 Canada Way, Burnaby B.C., V5G 4H7; and
  - (c) Mr. Peter M. Duda, Vice President and Refinery Manager, Chevron Canada Limited Burnaby Refinery, 355 North Willingdon Avenue, Burnaby, B.C., V5C 1X4.

**R E P O R T**

At the Regular Council Meeting on March 06, 2000, Council adopted a motion requesting staff to prepare a report on the notification process between the G.V.R.D. and the Simon Fraser Health Region with respect to air emissions from Chevron Canada Limited Burnaby Refinery.

Pursuant to Council's request, staff have met with representatives from Chevron and the GVRD to establish more effective communication with respect to inappropriate emission events that may negatively affect residents and businesses in the north Burnaby area.

This report outlines results of the discussion and the proposed notification process.

Under current regulations, the G.V.R.D. is charged with the responsibility for the control of air emissions in the regional district. It regulates emissions from the Chevron Canada Limited Burnaby Refinery by means of permits issued for the refinery and tank farm facilities. A condition of the

issuance of the Permit requires Chevron to sample stack emissions and submit results to the G.V.R.D. on a quarterly basis. Two sources, the Fluid Catalytic Cracker Regenerator and the Sulphur Recover Unit Incinerator, have continuous emission monitors (CEMS) on their air stacks. Results from these CEMS are submitted quarterly to the G.V.R.D. and the operators at Chevron report elevated emissions to the G.V.R.D. as they occur.

In addition to monitoring emissions directly from the sources at the refinery, the G.V.R.D. operates three ambient air monitoring stations in the vicinity of the refinery. These stations are located on Capitol Hill, Kensington Park and on the 4300 blk. Eton Street.

Recent air emission incidences from Chevron Canada Limited Burnaby Refinery have drawn attention to the lack of a formal notification process between the G.V.R.D., Simon Fraser Health Region and the City with respect to air emission incidents from Chevron Canada Limited Burnaby Refinery.

In order to address this, staff met with officials from the G.V.R.D. and Chevron on April 10, 2000 and resolved to the following notification process to deal with unusual emission events from Chevron Canada Limited Burnaby Refinery:

1. G.V.R.D. will refine its internal working procedures to ensure an efficient notification procedure for a "reportable event" with the Simon Fraser Health Region and the City. Notification of a "reportable event" will be done verbally by contacting staff both of the City and SFHR directly during regular hours or by contacting Engineering Dispatch after hours. A follow-up written report by the regional district will be provided if required.

Generally, the following situations will be reported at the first available opportunity by the G.V.R.D to the City and SFHR staff at all times:

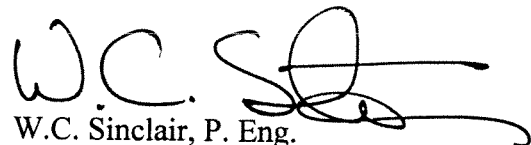
- a) refinery plant operational upsets resulting in excessive emissions and citizen complaints;
- b) exceedances of acceptable ambient air quality objectives at nearby monitoring stations;
- c) CEM exceedances which are high and / or last a long time.

In addition to "reportable events", the GVRD will determine if there is a case of nuisance emissions which requires to be reported.

2. The City will forward information received from the public to the G.V.R.D. regarding air emission events and staff will make inquiries if they are unaware of the source and the nature of emissions.
3. A public/community notification procedure will be developed by the G.V.R.D. and Chevron in consultation with the City and the North Burnaby Chevron Community Advisory Panel (CAP). This issue will be discussed at the next CAP meeting which will be held in early May.

Upon the completion of the public consultation process, the City will be informed of the agreed public/community notification process to be employed when inappropriate emission events occur.

The enhanced notification process will establish a more effective communication between all parties concerned, including the City and residents. As a follow up to the recent catalyst discharge incident from Chevron Canada Limited Burnaby Refinery on April 07, 2000, the G.V.R.D. obtained two samples of the catalyst and submitted them to an external lab for analysis of metal concentrations, particle size and general content of the carbonaceous materials. The results of the analysis, which are expected to be available by early May 2000, will be forwarded to the Simon Fraser Health Region for their evaluation and report with respect to public health impacts.

  
W.C. Sinclair, P. Eng.  
DIRECTOR ENGINEERING

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cc: Director Planning and Building

