

ITEM 11
MANAGER'S REPORT NO. 7
COUNCIL MEETING 88/01/25

RE: PROPOSED REPLACEMENT OF THE STEAM BOILERS AT THE CHEVRON REFINERY
5201 PENZANCE DRIVE PRELIMINARY PLAN APPROVAL NO. 8740

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Director Planning & Building Inspection be adopted.

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TO: MUNICIPAL MANAGER DATE: 1988 JANUARY 13

FROM: DIRECTOR PLANNING &
BUILDING INSPECTION

SUBJECT: PROPOSED REPLACEMENT OF THE STEAM BOILERS AT THE CHEVRON REFINERY
5201 PENZANCE DRIVE PRELIMINARY PLAN APPROVAL #8740

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RECOMMENDATION:

1. THAT this report be received for the information of Council.

REPORT

1.0 INTRODUCTION

The Planning and Building Inspection Department has received an application from Chevron Canada Ltd. for the installation of a new steam generating boiler at its North Burnaby Refinery site.

2.0 BACKGROUND INFORMATION

In 1974, Council gave approval in principle to the Chevron Refinery Modernization and Expansion Program. It was recognized that the expansion was a "program" as distinguished from a single building project. The objective of the modernization program was to result in an environmentally-improved product and local environment protection measures. To date, several of the proposed installations have been completed.

3.0 GENERAL INFORMATION

Chevron's current application involves the installation of a new steam boiler and stack to replace the existing boilers which are approximately 35 years old.

According to information received from Chevron the boiler burns natural gas and refinery fuel gases. The steam produced is used to drive steam turbines and pumps which move petroleum liquids throughout the refinery.

The steam is also used to prevent solidification of asphalt and heavy oils in the plant's pipelines. In addition this clean and safe source of heat is used in the heating of motor fuels such as gasoline and diesel to remove explosive vapours including methane and ethane. Chevron has advised staff that the replacement boiler will not increase the refinery's current throughput capacity.

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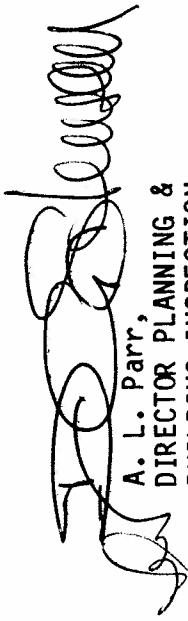
Chevron has also indicated that emissions resulting from burning natural gas and refinery fuel gas consist primarily of carbon dioxide and water vapour. These emissions will be covered by an amendment to the existing G.V.R.D. permit. The Environmental Health Division as part of their normal procedure will be reviewing and commenting on Chevron's amended application which will be applied for as soon as the design of the boiler unit has been finalized by the manufacturer. It is anticipated that the permit application will be made in 1988 April with startup of the new boiler scheduled for 1988 October.

The project has been reviewed and has received favourable comments by the Environmental Health Department and Fire Department and, unless otherwise directed by Council, the Planning and Building Inspection Department intends to issue Preliminary Plan Approval for the proposed Steam Boiler, subject to satisfaction of the requirements of all Municipal Bylaws and compliance with the conditions of the amended G.V.R.D. air emission permit that is obtained.

This is for the information of Council.

ALP
JCU/ds

cc: Chief Public Health Inspector
Fire Chief



A. L. Parr,
DIRECTOR PLANNING &
BUILDING INSPECTION