



**Oil and Gas Permit Application**

**Section (7) HAZOP Analysis**

**Aurora Phase 1 Development**

# CONTENTS

# PAGE

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1.0 Executive Summary .....	1
2.0 Preliminary PHA-HAZOP Letter.....	2

# **1.0 Executive Summary**

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Per Article II.H. (7) and Best Management Practice 47, Axis shall conduct a HAZOP analysis prior to facility construction. All HAZOP Plans will be coordinated with a third party PHA-HAZOP certified facilitator. Applicable information will be added to the Emergency Action Plan and provided to Aurora Fire Rescue.

A preliminary PHA-HAZOP letter is provided in this plan based on our typical tankless facility design. The PHA-HAZOP review was conducted by HHS Consulting, Inc., in accordance with OSHA requirements. A revised PHA-HAZOP letter will be provided to the City prior to facility construction. Any changes resulting from the PAH-HAZOP analysis will be incorporated into the Emergency Response Plan and a revised copy of that plan will be provided to the City.

## **2.0 Preliminary PHA-HAZOP Letter**

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433 Park Point Dr, Ste. 200  
Golden, CO 80401

Catie Nelson, Facilities Engineer  
Extraction Oil & Gas  
Windsor, CO

RE: Tankless Production Site Design Hazards & Operability Study (HAZOP)

Catie,

HHS Consulting, Inc. has evaluated the proposed facility design of the tankless using HAZOP methodology with Extraction engineering, operations and safety personnel. The study was conducted in accordance with OSHA requirements as noted in 29 CFR 1910.119 (e)(2)(iv) and utilized usual and customary best practices for facilities excepted from the OSHA Process Safety Management (PSM) standard. During the study, the team identified potential design improvement opportunities and submitted them to Extraction for consideration. More detailed information can be provided at the request of our client.

We are pleased that Extraction selected a rigorous method such as HAZOP to evaluate this type of tankless production facility and believe that doing so is a tangible effort toward continuous safety improvement.

Regards,

A handwritten signature in black ink, appearing to read 'Timothy Hicks', written over a light blue horizontal line.

Timothy Hicks, CSP, CIH, MSPH  
Vice President & Managing Director  
HHS Consulting, Inc.