

Location: KDG logistics Depot

Date of Review: 23/10/2024

Introduction

The purpose of this health and safety inspection is to identify any hazards and any breaches in the health and safety system and to ensure that our system meets legislative and regulatory requirements. To take the findings and develop action plans that will remove or reduce the risks and make recommendations to management for required improvements.

Executive Summary

The KDG logistics depot is neat and well maintained, it is a busy facility with a high traffic volume of various forms of mobile equipment, trucks, delivery vehicles and pedestrians. Management of health and safety is obvious in the facility and the health and safety of people is one of the company's biggest objectives. The signage in the facility is clear and appropriate and the emergency directions are also clearly marked. All firefighting equipment is clear of obstruction and maintained with the last date of test and inspection present.

A few observations and deviations were noted during the inspection but most of them can be rectified with time and input from top-level management. There is a concern about the fuel storage on site and acquiring the necessary approval is of utmost importance.

Main findings of the inspection

- During the inspection it was noted that. KDG logistics currently has 2 X 60000-liter tanks for storage of diesel on site. According to the GNR 327 activity 14 "The development and related operation of facilities or infrastructure, for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic meters or more but not exceeding 500 cubic meters." Therefore, KDG logistics currently exceeds the limit of dangerous goods stored on site. It must be noted that the duty holder who contravenes any of the provisions of these Regulations commits an offence and is, on conviction, liable to a fine not exceeding R5 000 000 or to imprisonment for a period not exceeding 24 months. It was also noted that the Compliance certificate that is issued from the Fire chief needs to be updated.
- As part of the inspection, it came to my attention that the fuel line connecting the tank to the diesel bowser partially resides underground, and there is an adjacent three-phase electrical cable. This arrangement presents a safety hazard, primarily because of the high voltage cable's proximity to the fuel line. To address this concern, it is imperative to engage a specialized petrochemical electrician who can guarantee electrical compliance, subsequently issuing a Certificate of Compliance. It's essential to emphasize that, given the fuel line's underground placement, annual pressure tests are necessary to detect and prevent potential leaks. The acquisition of a pressure test certificate is also required to ensure ongoing safety.

- Sections of the fuel line leading to the diesel dispenser are situated above ground and in close proximity to a stormwater drain. Additionally, this portion of the fuel line is located near the entry point where trucks access the fuelling area. The inspection revealed that trucks entering the fuelling area often come perilously close to the fuel line, creating a significant risk of accidental contact by drivers. Unfortunately, there is inadequate protection in place to safeguard the fuel line, and any collision between a vehicle and the fuel line could potentially lead to a significant and hazardous fuel spill.
- During the inspection, it was also brought to my attention that there exists a fuel line connecting the fuel suppliers' tanks situated on a separate site to the tanks located on the KDG logistics site. This connection between the tanks raises a concern, as the compliance status of KDG's tanks may be compromised if the supplier's site and fuel line are found to be non-compliant. Moreover, this linkage escalates the potential for spills if the fuel line is not adequately maintained and subjected to the necessary pressure tests in accordance with regulatory standards. The interconnected setup also heightens the fire risk, as any fire outbreak on the supplier's site could potentially ignite the fuel tanks on the KDG site if the fuel line itself becomes a source of ignition.
- The positioning of the billboard at the yard's center, adjacent to the workshop, has resulted in a spatial constraint, compelling trucks to navigate in close proximity to the workshop entrance. This situation places trucks on a direct collision course with staff exiting the workshop, significantly increasing the risk of a serious accident or injury. Furthermore, working beneath the billboard entails potential dangers, as there is a risk of objects falling from it if the billboard is not adequately maintained.

Conclusion

In summary, the health and safety inspection conducted at the KDG Logistics Depot, revealed both commendable practices and areas of concern. The depot impressively reflects a commitment to safety, featuring a well-maintained and organized environment. Clear signage, effective emergency directions, and the proper maintenance of firefighting equipment attest to the facility's dedication to health and safety.

However, several critical findings necessitate immediate attention and remediation. Foremost, the storage of diesel exceeds permissible limits, as outlined by GNR 327 activity 14. This non-compliance carries significant legal consequences and underscores the urgency of acquiring the required approvals.

Additionally, the presence of an underground fuel line adjacent to a high-voltage electrical cable poses a grave safety hazard, requiring engagement with a specialist electrician for compliance and certification. The protection of the above-ground fuel line, in close proximity to a stormwater drain and vehicle access point, also merits urgent consideration to prevent potential fuel spills and accidents.

The interconnection of fuel tanks across different sites introduces complexities and increased risks. A thorough assessment of compliance and adherence to pressure test requirements is imperative, given the potential consequences of non-compliance. Moreover, the positioning of the billboard presents

spatial constraints and collision risks, warranting a comprehensive safety evaluation and necessary adjustments.

In conclusion, the KDG Logistics Depot demonstrates a strong commitment to health and safety, yet specific issues require prompt resolution to ensure the well-being of personnel and compliance with regulatory standards. Addressing these findings and implementing the recommended actions is essential to maintain the depot's health and safety and mitigate potential risks. Management's prompt attention to these matters will contribute to the continued safe and efficient operation of the facility.

Recommendations

Recommendations	Likely Resource implications	Priority	Target date
Appoint company to conduct MHI risk assessment and apply for fire certificate	Top Management – Consult with specialists and appoint a suitable contractor	High – Immediate	4 Weeks
Confirm with supplier of fuel that there sight is compliant and that they submit relevant documents of approval	Top Management – Contact fuel supplier and achieve relevant compliance documentation	High - Immediate	4 Weeks
Fuel line pressure testing to be conducted on fuel line from tanks to dispenser.	Top Management – Appoint a suitable contractor to conduct test.	High – Immediate	4 Weeks
Re-routing of high voltage electrical cable.	Top Management – Appoint a suitable contractor to re-route cable and provide certificate of compliance.	High – Immediate	2 Weeks
Trucks driving along the side the workshop due to the billboard obstruction increasing collision risks	Yard management- Create designated work way for employees exiting the workshop to avoid collisions with trucks passing the workshop, install safety barriers, erect warning signage.	High – Immediate	2 weeks