

NATIONAL REFINERY LIMITED



HSE NEWS LETTER

October 2015

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Question or concerns regarding this news letter may be directed to:

Manager HSE
National Refinery Limited (NRL), 7-B, Korangi Industrial Zone, Karachi - 74900, Pakistan.
Email: mgrhse@nrlpak.com

Permit to Work System at NRL Korangi & K.T

Permit is regarded as a written agreement between the person authorizing the work and the person receiving the permit to work. During working days in the morning several naked flame hot work permits were audited before issuance of various jobs at different locations inside Refinery by Sr. Engineer, Engineer and HSE / Fire Protection Officers along with respective area custodians. Following Permit to Work (PTW) were issued in the Month of **October 2015** at Korangi & K.T.

KORANGI REFINERY		KEAMARI TERMINAL	
PERMITS	TOTAL QUANTITY (NOs.)	PERMITS	TOTAL QUANTITY (NOs.)
Hot Work Permit	652	Hot Work Permit	33
Confined Space Entry Permit	18	Confined Space Entry Permit	—
Excavation / Civil Work	19	Excavation / Civil Work	—
Radiography Permit	03	Radiography Permit	—
Crane Operation	09	Crane Operation	01
Cold Work Permit	03	Cold Work Permit	—
Scaffolding Permit	03	Scaffolding Permit	—

Safe Man-Hours

NRL Safety Board is updated by second week of every month. Safety Board shows the number of Safe Man-hours worked by NRL MPT and Non MPT Staffs. By the Grace of Al Mighty Allah and joint efforts by all of us, we have achieved **22.724134** millions safe man-hours with out Lost Time Injury as on **October 31, 2015**. Let us all give top priority towards safety, as there is no job, which cannot be done in a safer way.



Fire Drill at NRL Korangi & KT

Live Fire / Dry drill is carried out every Thursday at 1000 hrs. sharp at NRL Korangi Refinery & Dry Drill is carried out every Wednesday at 1530 hrs. sharp at NRL Keamari Terminal. This drill helps in checking the fitness of fire fighting equipment & imparting training to Auxiliary Staffs as describe in Procedure to gain experience for combating / catering of live fire fighting. HSE department observes the response time during fire drill. Following are the status of Live Fire Drills & Dry Fire Drills practices which were carried out in the month of **October 2015**.

S. No	Date	Team Leader	Nos. of Participant	Type of Drill	Response Time (min:sec)
Korangi Refinery					
01	01-10-2015	Mr. Shahid Mehmood	11	Dry	—
02	08-10-2015	Mr. Jamil Ahmed	12	Dry	—
03	15-10-2015	Mr. Muhammad Riaz	13	Dry	—
04	22-10-2015	Mr. Furqan Ahmed	12	Dry	—
05	29-10-2015	Mr. Khalid Hussain	12	Dry	—
Keamari Terminal (K.T)					
01	07-10-2015	Mr. Asif Bhatti	07	Dry	—
02	14-10-2015	Mr. Munir Akhter	07	Dry	—
03	21-10-2015	Mr. Bozdar	07	Dry	—
04	28-10-2015	Mr. Asif Bhatti	07	Dry	—

Hose Handling Drill

Hose handling drill is carried out every Tuesday at 1000 hrs. sharp at Fire station NRL Korangi Refinery. This drill helps in handling of fire fighting equipment to Auxiliary Staffs from Productions, Security, Quality Control and Oil movement departments to handle / cater emergency situation. Following are the status of Hose Handling Drills practices which were carried out in the month of **October 2015**.

S. No	Date	Team Leader	Nos. of Participant
01	06-10-2015	Mr. Muhammad Riaz	11
02	13-10-2015	Mr. Khan Muhammad	10
03	20-10-2015	Mr. Khan Muhammad	11
04	27-10-2015	Mr. Touseef Iqbal	13

H₂S & VOCs Monitoring Korangi

HSE department monitors the Hydrogen Sulphide (H₂S) & Volatile Organic Compounds (VOCs) which are being toxic in nature to the human beings and pollution to the environment. The results of H₂S & VOCs recorded at more than **85 different locations in Refinery** for the month of **October 2015** on **28th October 2015**. Boiler—V & VI was not in operation. The results was reported to all stake holders.



INCIDENT / ILL HEALTH AND LOSSTIME INJURY

Near miss	A near miss describes incident where no property was damaged and no personal Injury sustained, but when given a slight shift in time or position, damage and / or injury easily could have occurred.
Incident	An incident is an unplanned, undesired event that adversely affects completion of a task.
Accident	An accident is an undesired event that results in personal injury, property damage and equipment damage.
Loss Time injury (LTI)	If any NRL employee on duty had on the job accident, which render the employee medically unfit to resume of his duty next 24 hours is considered to be lost time injury (LTI).

MONTH-WISE STATUS OF INCIDENT & LOSSTIME INJURIES

Sr. No.	MONTH	INCIDENTS	LOSS TIME INJURIES
01	January 2015	01	Nil
02	February 2015	01	Nil
03	March 2015	Nil	Nil
04	April 2015	Nil	Nil
05	May 2015	01	Nil
06	June 2015	02	Nil
07	July 2015	03	Nil
08	August 2015	03	Nil
09	September 2015	01	Nil
10	October 2015	01	Nil
Year to Date (Total)		13	Nil

Illumination Monitoring Report

HSE department monitor the Illumination intensity at various Rooms, corridor & Control rooms which include Admin Block, Operation Block, all three Refineries, Canteen, Fire station, Security, Shipping office, Oil movement office, Quality Control, Workshop Hall, Ware house office and Dispensary office for the month of **October 2015** on **28th October 2015**. The results was reported to all stake holders.

Noise Survey Report Korangi

HSE department recorded the noise level reading at various location i.e., Lube-I, Lube-II, Fuel Refinery, Utilities, Oil Movement, R.O, Power Generation, Workshop, Warehouse, Quality control, Fire Protection, Shipping and Security department for the month of **October 2015** on **28th October 2015**. Boiler-V & VI, 182 Pump house, 283 / 293 Pump house, Turbine Generator & Fire Water Pump House # 02 was not in operation. The results of noise level reading was reported to all stakeholders.

Safety Article: Safe Storage & Handling of Hazardous Chemicals / Liquids

General Safety Guidelines for Hazardous Chemicals / Liquids:

1. Each type of hazardous material requires special handling techniques or respective PPE's should be used. In all cases, it is the responsibility of the concerned Engineer / Supervisor to read Material Safety Data Sheet (MSDS).
2. Store chemicals at designated locations as mentioned in MSDS, away from heat sources such as steam pipes, furnaces radiations and sunlight.
3. Provide adequate ventilation in the storage areas.
4. Never store hazardous chemicals:
 - ◆ On the floor without pad.
 - ◆ Large quantities of flammable materials in the Warehouse.
 - ◆ In glass or other containers near heat or steam pipes, or where strong sunlight will strike them. The contents may expand and may cause a fire explosion. Bottles may concentrate sunlight to ignite a fire in near by combustibles.
 - ◆ Materials / Chemicals in stairways or exit corridors.
 - ◆ Cylinders where they may become part of an electrical circuit.
5. Do not force hazardous chemicals from containers by injecting compressed air. The container may burst or the contents may ignite.
6. Try to wash or clean a container unless its label specifically requires it to be cleaned before return.
7. To move from one place to another of sealed drums having hazardous/toxic chemicals should be dealt very carefully, should not be dragged, tipped, rolled, dropped or thrown from height, for this purpose fork lifter may be used having special cradle which protects the cylinder valve from being stuck in transit.
8. Rolling of cylinders is not allowed as this damages the identification and may also damage or open the valve.

