

NATIONAL REFINERY LIMITED



HSE NEWS LETTER

September — 2017

HSE Newsletter Contents:

| | |
|---|---|
| Permit to Work | 1 |
| Safe Man Hours | 1 |
| Fire Drill at NRL & KT | 2 |
| Hose Handling Drill | 2 |
| Incident / Ill health & Loss Time Injury | 3 |
| Illumination Monitoring | 3 |
| Noise Survey Report Korangi | 3 |
| H₂S & VOCs Monitoring Korangi | 3 |
| Safety Article: PPE and How it can save your life? (Part 2) | 4 |

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 were issued in the Month of **September 2017** at Korangi & K.T.

| KORANGI REFINERY | | KEAMARI TERMINAL | |
|-----------------------------|-----------------------|-----------------------------|-----------------------|
| PERMITS | TOTAL QUANTITY (NOs.) | PERMITS | TOTAL QUANTITY (NOs.) |
| Hot Work Permit | 354 | Hot Work Permit | 19 |
| Confined Space Entry Permit | 06 | Confined Space Entry Permit | — |
| Excavation / Civil Work | 05 | Excavation / Civil Work | 05 |
| Radiography Permit | — | Radiography Permit | — |
| Crane Operation | 24 | Crane Operation | — |
| Cold Work Permit | — | Cold Work Permit | — |
| Scaffolding Permit | — | Scaffolding Permit | — |

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

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 Staff. By the Grace of Al Mighty Allah and joint efforts by all of us, we have achieved **27.388692** millions safe man-hours with out Lost Time Injury as on **September 30th, 2017**. 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 Drills practices which were carried out in the month of **September 2017**.

| S. No | Date | Team Leader | Nos. of Participant Attended | Nos. of Absentees | Type of Drill | Response Time (min: sec) |
|-------------------------------|------------|-------------------------|------------------------------|-------------------|---------------|--------------------------|
| Korangi Refinery | | | | | | |
| 01. | 07-09-2017 | Mr. Jamil Ahmed | 11 | 02 | Live | 03 min |
| 02. | 14-09-2017 | Mr. Jamil Ahmed | 13 | — | Live | 03 min: 05 sec |
| 03. | 21-09-2017 | Mr. Bilal Muhammad Khan | 08 | 05 | Live | 03 min |
| 04. | 28-09-2017 | Mr. Ibrahim Bozdar | 13 | — | Dry | — |
| Keamari Terminal (K.T) | | | | | | |
| 01. | 06-09-2017 | Mr. Muhammad Abid | 07 | — | Dry | — |
| 02. | 13-09-2017 | Mr. Shafiq Ansari | 07 | — | Dry | — |
| 03. | 20-09-2017 | Mr. Shafiq Ansari | 07 | — | Dry | — |
| 04. | 27-09-2017 | Mr. Muhammad Riaz | 07 | — | Dry | — |

Hose Handling Drill Korangi

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 **September 2017**.

| S. No | Date | Team Leader | Nos. of Participant Attended | Nos. of Absentees |
|-------|------------|--------------------------|------------------------------|-------------------|
| 01. | 05-09-2017 | Mr. Mohammad Riaz | 13 | — |
| 02. | 12-09-2017 | Mr. Ali Mohammad | 07 | 06 |
| 03. | 19-09-2017 | Mr. Malik Shafique Babar | 07 | 06 |
| 04. | 26-09-2017 | Mr. Azam Baig | 13 | — |

Illumination Monitoring Report Korangi

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 **September 2017** on **26th September 2017**. The results was reported to all stake holders.



INCIDENT / ILL HEALTH AND LOSS TIME 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). |

MONTHWISE STATUS OF INCIDENT & LOSS TIME INJURIES

| Sr. No. | MONTH | INCIDENTS | LOSS TIME INJURIES |
|--------------|----------------|-----------|--------------------|
| 01. | January 2017 | 00 | Nil |
| 02. | February 2017 | 00 | Nil |
| 03. | March 2017 | 01 | Nil |
| 04. | April 2017 | 00 | Nil |
| 05. | May 2017 | 01 | Nil |
| 06. | June 2017 | 00 | Nil |
| 07. | July 2017 | 04 | Nil |
| 08. | August 2017 | 00 | Nil |
| 09. | September 2017 | 00 | Nil |
| Total | | 06 | Nil |

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 **September 2017** on **26th September 2017**. Boiler # 7 was not in operation. The results of noise level reading was reported to all stakeholders.

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 **80 different locations in Refinery** for the month of **September 2017** on **26th September 2017**. Boiler VII was not in operation. The results was reported to all stake holders.

Safety Article : PPEs and How it can save your life? (Part 2)

On previous month, we talked about the benefits of using head protection, eye and face protection and respiratory protection. Now it's time we go into the importance of hand protection, safe footwear and hearing protection. These three other PPE's are just as important as the first three. It pays to know the right ways to use them as well as considerations in choosing their kind.

Here are these three other PPE types:

4. HAND PROTECTION

Did you know that every year, in the world of manufacturing, construction and service industry, about 150,000 injuries to the hands and fingers are reported? No wonder this is the case with virtually all jobs in these industries requiring the use of hands. But this fact does not justify such a large number of hand and finger injuries.

With the use of gloves, hazards are more manageable in tasks that involve working with chemicals, glass, sheet metal, electricity, hot materials and slippery objects. Of course gloves are specially designed according to the type of work you need to perform. Some may be made of leather or rubber, while others may be electrically insulated or nitrile coated.

Keep in mind that the risk of accidents are higher if you wear gloves while operating power tools or machinery that present the risk of entanglement. This has been the case of many incidents before that led to the loss of hands or fingers.

5. SAFE FOOTWEAR

Any kind of construction or manufacturing work calls for the need for proper footwear. Without it, slips, trips and falls are likely to occur. Worse, employees are more prone to ankle, impact and puncture injuries. Most specially designed boots, shoes, foot guards and leggings serve as your protection against chemicals, hot substances and slippery floors.

Whatever footwear you use, remember that it should fit properly and comfortably. Make sure also to keep your laces securely tied.

6. HEARING PROTECTION

Hearing protection is perhaps the PPE type most taken for granted.

Here is an excerpt from our collection of safety meetings:

Noise-induced hearing loss is the term for hearing damaged by excessive noise. People differ in their sensitivity to noise, however, and there's no way to determine who is most at risk. Factors such as sound pressure (decibel level), frequency (hertz), and exposure time all play a role in determining whether noise is harmful or just annoying. However, you should consider your hearing at risk if noise affects you in one of the following ways:

- **Have to shout** above noise to make yourself heard,
- **Have ringing** in the ears for several hours after exposure to noise,
- **Have difficulty** hearing normal sounds for several hours after exposure to noise.

The best way to control noise in the workplace is making use of engineering controls. If this is not feasible, though, employers must provide their workers with proper hearing protectors. These come in the form of earplugs or earmuffs.

It's important to note that earmuffs are more effective in reducing high-frequency noise, while earplugs are for reducing low-frequency noise. Both of these hearing protectors are used to control noise and not to eliminate it. That's why they're only effective if you wear them the whole time you're exposed to hazardous noise.

