

# NATIONAL REFINERY LIMITED



## HSE NEWS LETTER

February, 2017

## Permit to Work System at NRL Korangi & K.T

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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 **February 2017** at Korangi & K.T.

| KORANGI REFINERY            |                       | KEAMARI TERMINAL            |                       |
|-----------------------------|-----------------------|-----------------------------|-----------------------|
| PERMITS                     | TOTAL QUANTITY (NOs.) | PERMITS                     | TOTAL QUANTITY (NOs.) |
| Hot Work Permit             | 762                   | Hot Work Permit             | 31                    |
| Confined Space Entry Permit | —                     | Confined Space Entry Permit | —                     |
| Excavation / Civil Work     | 11                    | Excavation / Civil Work     | 02                    |
| Radiography Permit          | —                     | Radiography Permit          | —                     |
| Crane Operation             | 33                    | Crane Operation             | —                     |
| Cold Work Permit            | —                     | Cold Work Permit            | —                     |
| Scaffolding Permit          | 03                    | Scaffolding Permit          | —                     |

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

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## 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 **25.885268** millions safe man-hours with out Lost Time Injury as on **February 28<sup>th</sup>, 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 **February 2017**.

| S. No                         | Date       | Team Leader             | Nos. of Participant Attended | Nos. of Absentees | Type of Drill | Response Time (min & sec) |
|-------------------------------|------------|-------------------------|------------------------------|-------------------|---------------|---------------------------|
| <b>Korangi Refinery</b>       |            |                         |                              |                   |               |                           |
| 01.                           | 02-02-2017 | Mr. Khalid Husain       | 13                           | Nil               | Dry           | —                         |
| 02.                           | 09-02-2017 | Mr. Khalid Hussain      | 12                           | 01                | Dry           | —                         |
| 03.                           | 16-02-2017 | Mr. Bilal Mohammad Khan | 13                           | Nil               | Dry           | —                         |
| 04.                           | 23-02-2017 | Mr. Bilal Mohammad Khan | 13                           | Nil               | Dry           | —                         |
| <b>Keamari Terminal (K.T)</b> |            |                         |                              |                   |               |                           |
| 01.                           | 01-02-2017 | Mr. Nadeem Jaffri       | 07                           | —                 | Dry           | —                         |
| 02.                           | 08-02-2017 | Mr. Agha Munawwar       | 07                           | —                 | Dry           | —                         |
| 03.                           | 15-02-2017 | Mr. Agha Munawwar       | 07                           | —                 | Dry           | —                         |
| 04.                           | 22-02-2017 | Mr. Mohammad Zaman      | 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 **February 2017**.

| S. No | Date       | Team Leader        | Nos. of Participant Attended | Nos. of Absentees |
|-------|------------|--------------------|------------------------------|-------------------|
| 01.   | 07-02-2017 | Mr. Shahid Mehmood | 13                           | —                 |
| 02.   | 14-02-2017 | Mr. Azam Baig      | 13                           | —                 |
| 03.   | 21-02-2017 | Mr. Khan Mohammad  | 10                           | 03                |
| 04.   | 28-02-2017 | Mr. Furqan Ahmed   | 12                           | 01                |



## 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 2016  | 0         | Nil                |
| 02.          | February 2016 | 0         | Nil                |
| <b>Total</b> |               | <b>0</b>  |                    |

## 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 **February 2017** on **20<sup>th</sup> February 2017**. 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 **February 2017** on **20<sup>th</sup> February 2017**. Boiler # 7 was not in operation. The results of noise level reading was reported to all stakeholders.

## H<sub>2</sub>S & VOCs Monitoring Korangi

HSE department monitors the Hydrogen Sulphide (H<sub>2</sub>S) & Volatile Organic Compounds (VOCs) which are being toxic in nature to the human beings and pollution to the environment. The results of H<sub>2</sub>S & VOCs recorded at more than **80 different locations in Refinery** for the month of **February 2017** on **20<sup>th</sup> February 2017**. Boiler VII was not in operation. The results was reported to all stake holders.

# HAZCOM STANDARD PICTOGRAMS

|  |  |  |
|--|--|--|
| <p><b>Health Hazard</b></p>  <ul style="list-style-type: none"><li>• Carcinogen</li><li>• Mutagenicity</li><li>• Reproductive Toxicity</li><li>• Respiratory Sensitizer</li><li>• Target Organ Toxicity</li><li>• Aspiration Toxicity</li></ul> | <p><b>Flame</b></p>  <ul style="list-style-type: none"><li>• Flammables</li><li>• Pyrophorics</li><li>• Self-Heating</li><li>• Emits Flammable Gas</li><li>• Self-Reactives</li><li>• Organic Peroxides</li></ul> | <p><b>Exclamation Mark</b></p>  <ul style="list-style-type: none"><li>• Irritant (skin and eye)</li><li>• Skin Sensitizer</li><li>• Acute Toxicity (harmful)</li><li>• Narcotic Effects</li><li>• Respiratory Tract Irritant</li><li>• Hazardous to Ozone Layer (Non-Mandatory)</li></ul> |
| <p><b>Gas Cylinder</b></p>  <ul style="list-style-type: none"><li>• Gases Under Pressure</li></ul>   | <p><b>Corrosion</b></p>  <ul style="list-style-type: none"><li>• Skin Corrosion/ Burns</li><li>• Eye Damage</li><li>• Corrosive to Metals</li></ul>  | <p><b>Exploding Bomb</b></p>  <ul style="list-style-type: none"><li>• Explosives</li><li>• Self-Reactives</li><li>• Organic Peroxides</li></ul>  |
| <p><b>Flame Over Circle</b></p>  <ul style="list-style-type: none"><li>• Oxidizers</li></ul>  | <p><b>Environment<br/>(Non-Mandatory)</b></p>  <ul style="list-style-type: none"><li>• Aquatic Toxicity</li></ul>   | <p><b>Skull<br/>and Crossbones</b></p>  <ul style="list-style-type: none"><li>• Acute Toxicity (fatal or toxic)</li></ul>   |