

NATIONAL REFINERY LIMITED



HSE NEWS LETTER

January, 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 **January 2017** at Korangi & K.T.

KORANGI REFINERY		KEAMARI TERMINAL	
PERMITS	TOTAL QUANTITY (NOs.)	PERMITS	TOTAL QUANTITY (NOs.)
Hot Work Permit	723	Hot Work Permit	15
Confined Space Entry Permit	11	Confined Space Entry Permit	—
Excavation / Civil Work	23	Excavation / Civil Work	03
Radiography Permit	—	Radiography Permit	—
Crane Operation	20	Crane Operation	03
Cold Work Permit	—	Cold Work Permit	09
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 **25.682507** millions safe man-hours with out Lost Time Injury as on **January 31st, 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 **January 2017**.

S. No	Date	Team Leader	Nos. of Participant Attended	Nos. of Absentees	Type of Drill	Response Time (min & sec)
Korangi Refinery						
01.	05-01-2017	Mr. Azam Baig	13	Nil	Dry	—
02.	12-01-2017	Mr. Khan Mohammad	11	02	Dry	—
03.	19-01-2017	Mr. Furqan Ahmed	12	01	Dry	—
04.	26-01-2017	Mr. Furqan Ahmed	12	01	Dry	—
Keamari Terminal (K.T)						
01.	04-01-2017	Mr. Agha Munawwar	07	—	Dry	—
02.	11-01-2017	Mr. Zaman Bhatti	07	—	Dry	—
03.	18-01-2017	Mr. Mohammad Abid	07	—	Dry	—
04.	25-01-2017	Mr. Nadeem Jaffri	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 **January 2017**.

S. No	Date	Team Leader	Nos. of Participant Attended	Nos. of Absentees
01.	03-01-2017	Mr. Mohammad Riaz	12	01
02.	10-01-2017	Mr. Furqan Ahmed	13	—
03.	17-01-2017	Mr. Shafique Babar	10	03
04.	24-01-2017	Mr. Khalid Hussain	09	04
05.	31-01-2017	Mr. M. Arif Bhatti	13	—



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 FOR THE YEAR — 2017

Sr. No.	MONTH	INCIDENTS	LOSS TIME INJURIES
01.	January 2016	0	Nil
Total		0	

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 **January 2017** on **24th January 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 **January 2017** on **24th January 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 **January 2017** on **24th January 2017**. Boiler VII was not in operation. The results was reported to all stake holders.

Safety Article: Earthquake Emergency Response Plan

1. Do not panic, keep calm.
2. All staff on essential duty only including operation and maintenance department or any other essential services department will remain present at their duty place and will help in dealing the emergency.
3. If the earthquake catches you indoors, stay indoors. Take cover under a sturdy piece of furniture. Stay away from glass, or loose hanging objects.
4. **DROP / DUCK:** When you feel an earth quake, duck under a sturdy desk or table. Stay away from windows, bookcases, file cabinets, tall furniture, heavy mirrors or paintings, and other objects that could fall. Watch out for falling plaster, lighting fixtures or ceiling tiles.
5. **COVER:** Stay under cover until the shaking stops. If no desk or table is available, seek cover against an interior wall and protect your head and neck with your arms.
6. **HOLD ON:** Hold onto the desk or table. If it moves, move with it. Hold your position until the ground stops shaking and it is safe to move.
7. Do not rush outdoors, since most injuries occur as people are leaving buildings from falling glass, plaster, bricks, debris, and electrical lines.
8. Do not attempt to restrain falling objects unless your life is endangered by them.
9. If you are outdoors, remain there. Move into the open. Move away from overhangs, power lines and trees, and stay in the open away from all structures.
10. If you are in a crowded place, do not rush for cover or to doorways.
11. If you are in a moving vehicle, stop as quickly as safe possible, but stay in the vehicle until the shaking stops.
12. If you are in a lift, get out of the lift as quickly as possible.
13. If you are in a confined space / trench / tunnel, move out of the tunnel to the open as quickly as safety permits.

After an Earthquake:

1. Remain calm. Take whatever actions necessary to prevent injuries and further damage. Do not panic and do all that is possible to calm others.
2. Remember, aftershocks may occur at any moment with nearly the same force as the original quake. Be prepared.
3. Move cautiously and observe your surroundings for hazardous situations in plant areas / tank farm.
4. Lighting systems may fail within seconds after the quake. Visually identify potentially dangerous articles and recall the location of a flashlight. However, keep your body protected at all times during the shaking.
5. Check yourself and people around you for injuries. Keep in touch with Security / HSE / Fire Protection departments for rescue arrangements. Do not attempt to move seriously injured people unless they are in immediate danger of further injury, Provide first aid where necessary.
6. If you feel the release of flammable / Toxic gas / Vapors or any foreign odors, do not be panic and inform Fire Station for immediate action as an emergency response plan. Open windows, leave the building immediately, and report to at the pre designated evacuation sites outside the buildings as per evacuation procedures.
7. If fire broken out in any plant / tank farm area as a result of earthquake then Fire Protection department will combat the fire as per emergency response plans / procedures of ERP for Korangi Fire & ERP for Keamari Fire.
8. If during or after earthquake spillages / mass release of Hydrocarbon occurs, act as per plan and procedures of ERP for Oil Spillages, ERP for Chemical Spillages, ERP for KK Pipeline leakage & ERP for LPG / Toxic mass release.
9. Doctors on shift duty should be alert as per situation.
10. Fire fighting squad / Security staff should always remain prepared to face, rescue, arrangements during such emergencies.