

# **NORTH WESTERN RAILWAY**

## **AJMER DIVISION**



## **Presentation of Case study on Accident**

# Case study of Accident-1

<b>Date</b>	<b>:</b>	<b>05.09.2000</b>	
<b>Time</b>	<b>:</b>	<b>05:00 Hours</b>	
<b>Railway</b>	<b>:</b>	<b>Western Railway</b>	
<b>Gauge</b>	<b>:</b>	<b>BG</b>	
<b>Location</b>	<b>:</b>	<b>At KM 613/4-5 MAA-SIM on ABR-PNU section</b>	
		<b>All division.</b>	
<b>Nature</b>	<b>:</b>	<b>Derailment</b>	
<b>Train Involved</b>	<b>:</b>	<b>2916 UP</b>	
<b>Speed of Train</b>	<b>:</b>	<b>92 KMPH</b>	
<b>System of operation</b>	<b>:</b>	<b>Absolute block system</b>	
<b>No. of track</b>	<b>:</b>	<b>Single Line</b>	
<b>Gradient</b>	<b>:</b>	<b>1 in200 rising towards ABR</b>	
<b>Alignment</b>	<b>:</b>	<b>2.50 Curve</b>	
<b>Weather</b>	<b>:</b>	<b>Dry</b>	
<b>Visibility</b>	<b>:</b>	<b>Good</b>	
<b>Causalities</b>	<b>:</b>	<b>Death</b>	<b>- Nil</b>
		<b>Grievous Injury</b>	<b>- 06</b>
		<b>Simply Injure</b>	<b>- 09</b>

<b>Cost</b>	<b>:</b>	<b>20.16 Lakhs</b>	
<b>Rescue Arrangement</b>	<b>:</b>	<b>Satisfactory</b>	
<b>Medical Help</b>	<b>:</b>	<b>Satisfactory</b>	
<b>Cause</b>	<b>:</b>	<b>Due to weld failure in over stressed 90R rails.</b>	
<b>Responsibility</b>	<b>:</b>	<b>Primary</b>	<b>- Nil</b>
		<b>Secondary</b>	<b>- Nil</b>
		<b>Blame worthy</b>	<b>- Nil</b>

#### **Recommendations-**

**SR to be imposed – Goods 50 KMPH & Passenger 75 KMPH**

**CWR to be converted into LWR to be distressed.**

**80 Degree probe USFD for testing flange portion.**

**Air brake training-Special to operation staff.**

**Monitoring of wheel flats by ASM, gate man.**

**In-motion weighing m/c to avoid overloading.**

**RDSO should review the rail stress calculation to allow for the effect of-**

**(a) Over load**

**(b) Wheel flats**

**(C) Welds in rails.**

## Case study of Accident-2

<b>Date</b>	:	<b>29-07-2011</b>
<b>Time</b>	:	<b>21:32 Hours</b>
<b>Railway</b>	:	<b>North Western Railway</b>
<b>Gauge</b>	:	<b>BG</b>
<b>Location</b>	:	<b>At KM 321-2 POSLI-JHARLI on RE-BHIWANI section BKN division.</b>
<b>Nature</b>	:	<b>Dashing of truck with passenger train</b>
<b>Train Involved</b>	:	<b>54791</b>
<b>Speed of Train</b>	:	<b>87 KMPH</b>
<b>System of operation</b>	:	<b>Absolute block system</b>
<b>No. of track</b>	:	<b>Single Line</b>
<b>Gradient</b>	:	<b>0</b>
<b>Alignment</b>	:	<b>Straight track</b>
<b>Weather</b>	:	<b>Dry</b>
<b>Visibility</b>	:	<b>Clear, under head light condition.</b>
<b>Causalities</b>	:	<b>Death - Nil</b>
		<b>Grievous Injury - 07</b>
		<b>Simply Injury - 04</b>

**Cost** : (Locomotive Rs. 40,200, Coach Rs. 6855)Total 47005  
**Rescue Arrangement** : Satisfactory  
**Medical Help** : Satisfactory  
**Cause** : Dashing of road dumper with passenger  
**. 54791**  
**Responsibility** : **Primary** - Shri Billu, S/o Rajkumar,  
- Driver of dumper No. HR39A3394  
**Secondary** - Shri Radey Shayam, Supervisor  
contractor.  
- Shri Karamveer Yadav, SSE W/C, F  
**Blame worthy- Shri M.K Goyal, XEN(Co.)/BKN**

### **Recommendations-**

**Taking into account the recommendations made in the Preliminary Report following are final Recommendations:**

**Whenever passenger train is involved in accident, on getting first information ARME should be ordered and moved immediately.**

**On work site, where plying of road vehicle may endanger safety of running train entry of road vehicle should be restricted, round the clock watchman should be deputed at site and adequate lighting at site should be ensured during night.**

**No work adjacent to track should be allowed unless physical barricading strong enough to prevent road vehicles coming closer to track are erected at site and approved in writing by Railway's Engineer. Present instructions of providing barricading of Road/Track with Polypropylene/High Tensile Nylon rope are inadequate to prevent accident at work site.**

**In all contract agreements where work is required to be done adjacent to railway track, public road or habituated area, separate item of fabricating and erecting physical barricading should be kept in tender schedule. This item should be first to be paid to contractor, payment against other items should not be released unless required barricading is erected at site and paid/included in bill for making payment.**

**Thanks**