

संरक्षा विभाग  
सोलापुर मंडल



Safety Branch  
Solapur Division

संरक्षा परिपत्र

**Safety Circular**  
**15/2021-22**



**विषय : डिरेलमेंट की रोकथामके लिए समय पर हॉट एक्सल का पता लगाना**

**SUB: Timely detection of Hot Axle to prevent derailment.**

**दिनांक/Date: 19.11.2021**



**SAFETY CIRCULAR - 15 /21-22****All concerned /SUR division**

**Sub :-** Timely detection of Hot axle to prevent derailment.

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When the vehicle runs for considerable distance in hot axle condition, it is possible for train passing & running staff to detect it. **The symptoms of Hot axle and action to be taken are reiterated for guidance of train passing staff:**

Day Time	Night time
<b>While not in motion / in Slow motion</b>	
1. Smell of Burning grease or rubber pad (EM pad) & Splashing of grease on wheel disc. 2. Light smoke from axle box & feeling hot. 3. Dis-coloring of axle box face plate. 4. Axle box cover cut, bulged or missing. 5. Burning of over axle box.	1. Light Smell of Burning grease or rubber pad ( EM pad) 2. Hotness of axle box by feeling. 3. Axle box cover becomes Red-Hot. 4. Glowing of axle box. 5. Flame from axle box
<b>While Run through</b>	
1. Axle may get locked and wheel skidding. 2. Screeching sound & Smell of Burning grease. 3. Dislocation of axle box face plate. 4. Vibration of wagon/trolley	1. Sparks on rail due to skidding. 2. Screeching sound. Smell of burning Grease. Axle box cover becomes Red Hot. 3. Burning of EM pad & flame over axle box and dislocation of face plate. 4. Vibration sound of wagon trolley.

**Duties of staff**

1. **Station staff :**
  - i. Check for above symptoms while train passing.
  - ii. Exhibit hand danger signal immediately.
  - iii. Put back the departure signal. Advise the train crew through VHF set to stop & examine the train.
  - iv. Alert the gate man in advance to stop the train.
  - v. Advise the Controller to arrange to stop the train as early as possible.
  - vi. Advise the SM of station in advance not to allow any train in section in opposite direction with exchange of private no.(if any)
2. **Train Crew :**
  - i. Look out while running on curves for any symptoms unusual.
  - ii. Stop the train by first means.
  - iii. Examine the effected vehicle.
  - iv. Exercise your discretion and take decision.
  - v. LP/Guard should watch carefully the signals exhibited by station staff, gateman, gang man, other Railway staff and act immediately to control speed.



**3. P.Way & S&T Staff :**

- i. Be vigilant while train is passing through .
- ii. Inform about any unusual noticed in train to the nearest station master/controller.
- iii. Show danger signal and try to alert the Guard by shouting / waving.
- iv. Arrange to stop the train immediately

**4. Gateman:**

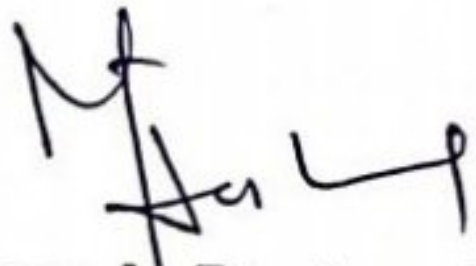
- i. Watch the passing through trains carefully.
- ii. Exhibit danger signal & alert the guard to stop the train immediately.
- iii. Advise the station master to stop the train immediately.

**5. Section controller:**

- i. Arrange to stop the train if hot axle on train is reported by field staff and station staff.
- ii. Inform to concerned departments and get it examined by Guard & Driver/Station staff.
- iii. Train should be stopped and checked as soon as possible for any symptoms noticed.
- iv. Such trains should be allowed to enter station only after it is checked.

**6. C&W staff :**

- i. Carry out carefully rolling in and rolling out examination on all trains at nominated stations/yards.
- ii. Feel the axle boxes immediately by NCT Gun on arrival of trains.
- iii. Detach the vehicle if hot axle is noticed and axle box temperature in beyond 80<sup>0</sup> C.

  
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