

National Electric Power Regulatory Authority Islamic Republic of Pakistan





NEPRA Incident Alert # 2024-01/ June 06, 2024

Lineman Fall Accident

Summary



On February 28, 2023, at approximately 10:15 Hours, the 500kV transmission line tripped. Field patrol revealed partial collapse of towers. Rehabilitation work commenced and was successfully complete. On March 15, 2023, a team supervised by an Assistant Engineer was assigned to re-jumper the transmission line at a tower under a Permit to Work (PTW). The weather was cloudy and fair according to weather data.



A lineman equipped with a single lanyard body belt (positioning belt) completed the re-jumpering of the Red and Yellow phases and then moved to the Blue phase to perform re-jumpering. While adjusting his position and maneuvering around the string insulator through the corona plate, he detached the single lanyard from the anchorage point. As he stepped on the string insulator, he lost his balance, slipped, and fell from a height of approximately 14 meters (45 feet) to the ground. He was transported to the nearest Health Care Centre, where he was pronounced dead upon arrival.







Inadequate Fall Protection
 Equipment: The line staff used
 lineman body belts (positioning
 belts) with single lanyards without
 ensuring 100% tie-off for protection
 against falls from height.



2. Training Deficiencies: Despite undergoing the necessary training, the field staff and officers were unable to correctly wear the safety belt. During the investigation, they could not demonstrate the proper donning and doffing of a full-body safety harness with a single lanyard.



Figure-1: Transmission Tower



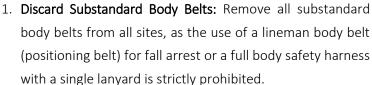
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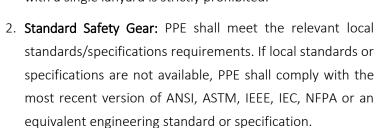


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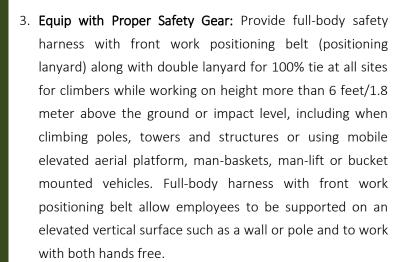


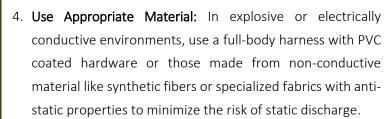




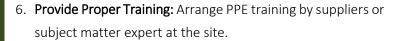


High Focus Areas & Lessons Learned













Full-body Safety Harness



Double Lanyard

