

# NERC

NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

# Introduction to NERC GADS

Questions on Outages Types

GADS Data Reporting Workshops

**RELIABILITY | ACCOUNTABILITY**



## Collection of Unit Outage Information

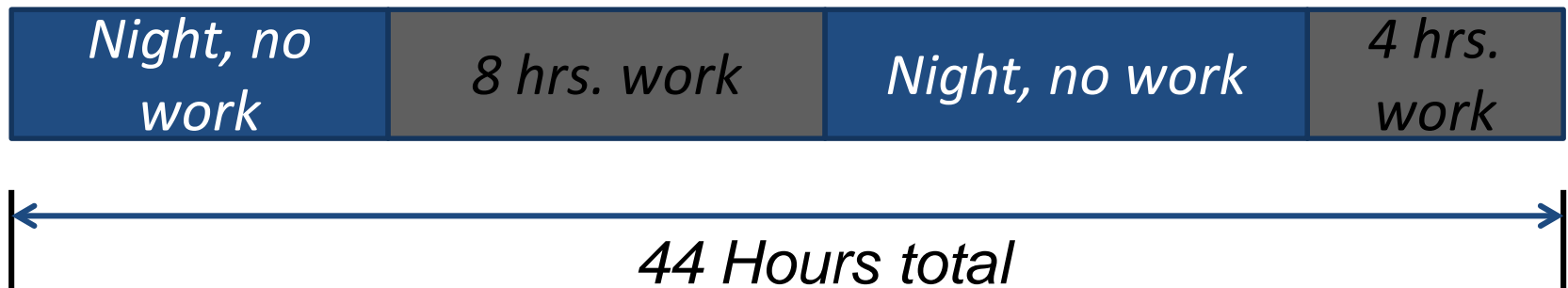


- Riverglenn #1, a fossil unit, is four days away from its planned outage (PO) when it experiences a boiler tube leak.
  - The unit must come off line within 6 hours for repairs.
  - Since the unit is scheduled for a planned outage, the dispatcher (or ISO) allows the unit to go into its planned outage early.
  - It normally takes 36 hours to repair a tube leak.
- Is the tube leak a FO or is it part of the PO?

- On a Thursday, Riverglenn #1 experiences a sudden increase in vibration in its ID Fan #2.
  - The vibration is not severe enough to trip the unit.
  - After some discussion, management decides Riverglenn can be removed from service next week without further damage to the unit or endangering the safety of the personnel.
  - On Friday, dispatch (or ISO) allows Riverglenn to come down early for repairs. The unit was removed from service.
- Is the vibration problem an FO or MO?

- On Friday, Jumbo #1, a gas turbine, began to vibrate.
  - At first the GT vibrations were not severe, but over the following 4 hours, the mils of vibration increased to where the unit must be removed from service.
  - The unit continued to generate until after the peak period was over.
  - Jumbo was not needed again until the following Monday afternoon.
  - Shortly after the peak period, the operator tripped the unit.
- Is this vibration problem an FO or MO?

- High Top #3, a small fossil unit, experienced a Forced Outage failure in its boiler.
  - The unit will not be needed the remainder of the week.
  - It was decided by management to repair the unit on standard work time, no overtime or weekend pay.
  - Working standard 8-hour days, the repairs were completed in 12 hours over a 44-hour period.
- What type of outage is the repair and for how long?



A stylized map of North America, including the United States, Canada, and Mexico. The map is rendered in shades of blue and grey. A horizontal band of medium blue color passes behind the text, partially overlapping the map.

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