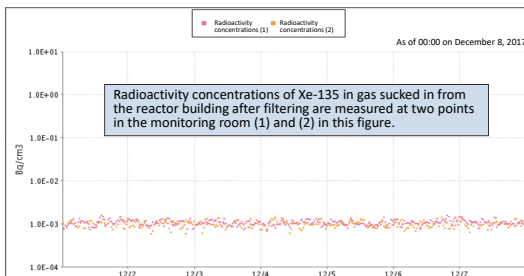
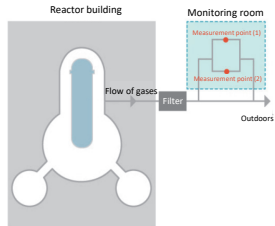


Measures against Recriticality and Future Earthquakes and Tsunamis

Amount of noble gases generated



Measures against earthquakes and tsunamis

Through computer analyses and other means, it has been confirmed that reactor buildings and other major facilities are sound enough to withstand any earthquakes or tsunamis equivalent to or even bigger than the Great East Japan Earthquake.

Securing of power sources in an emergency

In preparation for power loss, ordinary power sources have been multiplexed and emergency power supply vehicles and gas turbine vehicles are put in place. These vehicles are to be used to supply power to water injection facilities in an emergency.



Water injection drill



Emergency power supply vehicle



Fire engines

Backup power sources such as emergency power supply vehicles and water injection means such as fire engines are placed at a higher area where tsunamis are unlikely to reach.



Temporary seawall

(Source: Website of Tokyo Electric Power Company)



< Recriticality >

When criticality occurs, Xe-135 and other noble gases increase in an unexpected fashion. At the Fukushima Daiichi NPS, generation of noble gases is being monitored at all hours. At present, the amount of noble gases has been stable, which suggests that recriticality has not occurred. However, in preparation for any risks of recriticality, a boric acid water system to suppress nuclear fission in the event of criticality has been installed.

< Measures against earthquakes and tsunamis >

As measures against any earthquakes and tsunamis of the same level as the Great East Japan Earthquake, a temporary seawall has been constructed and the work to block openings of the buildings has been underway to prevent inflow of seawater in the event of a tsunami. Additionally, backup power sources such as emergency power supply vehicles and water injection means such as fire engines are placed at a higher area where tsunamis are unlikely to reach.

Included in this reference material on February 28, 2018