Hurricane Sandy

It was one of the most destructive hurricanes that happened on the east coast. It shut down the Jersey shore and left disaster everywhere. It was a category 3 hurricane, with wind spanning 1,100 miles.

Mitigation –

Before the hurricane reached land, officials released public information on the storm. These pre-landfall declarations allowed access to resources to be pre-positioned ahead of the storm, activation of response teams, and access to funding streams. These actions will be proven to have saved lives.

Preparedness –

In preparation for a hurricane of this caliber, most, if not all residents along the east coast boarded up their windows, gathered plenty of food and water, and abandoned their homes. Many homes were raised above the ground after previous hurricanes and floods in the area.

Response –

EPA stated that more than a half billion dollars were in the post-Sandy funding for disaster relief. Several other organizations contributed to the relief whether by raising millions of dollars, or doing hands on work themselves. To this day, the east coast has still not fully recovered.

Recovery –

A hurricane of this matter is hard to stop from preventing damage. Causing flooding of at least 10 feet in some areas, it would be physically impossible to raise every house that high. However, many homes are being raised on concrete now in an effort to prevent homes from being moved by wind and water.

Chernobyl (Nuclear power plant explosion)

On April 26, 1986, large quantities of radioactive particles were released into the atmosphere as a result of a nuclear power plant explosion at Chernobyl, Russia. This disaster was classified as a level 7 event, which is the highest classification.

Mitigation –

Emergency Core Cooling System, interfering with the settings on the protection equipment, and blocking the level and pressure in the separator drum did not contribute to the original cause of the accident and its magnitude, although they may have been a breach of regulations. Turning off the emergency system designed to prevent the two turbine generators from stopping was not a violation of regulations.

Preparedness –

The disaster began during a systems test at reactor number four of the Chernobyl plant, which is near the city of Prepay and in proximity to the administrative border with Belarus and the Dnieper river. There was a sudden and unexpected power surge, and when an emergency shutdown was attempted,
an exponentially larger spike in power output occurred, which led to a reactor vessel rupture and a series of steam explosions

Response –

Decommissioning of the entire site, radioactive waste management facility to store 25,000 fuel assemblies, the exclusion zone.

Recovery –

Chernobyl Shelter Fund, U.N. Development Programme, International Project on the Health Effects of the Chernobyl Accident. They evacuated the explosion site and no one is allowed to live in that area for another 20,000 years because of all the radioactive decay.