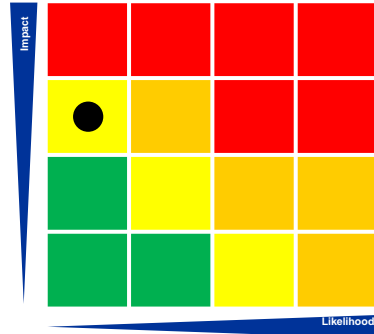




Risk Event : High sea levels cause flooding of production units, causing stop production process.

Root Cause Analysis : The sea level is higher than usual due to inclement weather

Risk Impact : Production processes are stopped, Main system is disrupted.



| | Risk Event | KRI | Status 2023 | Normal | Monitor | Dealt with immediately |
|--|--|---|-------------|---------|-------------|------------------------|
| | High sea levels cause flooding of production units, causing stop production process | Chao Phraya water level In front of Bangchak Pier | <1.7 m | < 1.7 m | 1.7 – 2.5 m | > 2.5 m |

Existing Risk Response

- Continuously monitoring water level of Chao Phraya river, especially during the rainy season.
- Prepare sandbags in case of the water level starts to tend to be high or during the rainy season.
- Bangkok's water protection system around the Bangchak refinery, Bangchak oil refinery
 - The flood protection barrier was able to support the water level in 2011 (equivalent to 2.23 m. at Bangchak Port).
 - Temporary protection in areas where the sea level is higher than the flood barrier.
 - Bang O canal and Bang Chak canal pumping stations
 - Giant Tunnel of Suan Luang Rama IX
 - Road and drainage improvement project in Thangrotfaisaikao road.



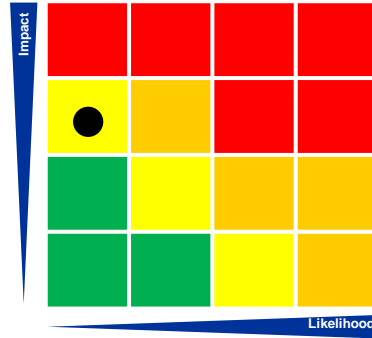
Risk Event : Water shortage (drought) causing production units to stop.

Root Cause Analysis : Tap water is not sufficient for the amount required in the production process.

1. Caused by inclement weather or El Niño conditions
2. Result from the population density in the area surrounding the refinery.

Risk Impact :

1. Production processes are stopped, Main system is disrupted
2. There may be complaints from the community that this is the cause of water shortages in the vicinity of the refinery.



| | Risk Event | KRI | Status 2023 | Normal | Monitor | Dealt with immediately |
|--|--|--|--|---|---|--|
| | Water shortage (drought) causing production units to stop | Tap water runs as usual and low conductivity | Tap water runs as usual and low conductivity | Tap water runs as usual and low conductivity. | Warning from the Metropolitan Waterworks Authority regarding drought. | Tap water is not running and high conductivity |

Existing Risk Response

- Coordinate with Metropolitan Waterworks Authority to continually know the situation closely.
- There is a backup water supply system.
- There is an underground water system that can support water shortage conditions for a long time.