

Appendix J: Vulnerability of the Project to risks

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Appendix Table 1: Vulnerability of the RTS CI & FC Project to risks

Major accident/disaster	Vulnerability of the RTS CI&FC Project to the risks of these
War and terrorism	The Project is unlikely to attract terrorist activities or warfare due to: its location which is predominantly remote from urban areas; the fact that it does not store chemicals, impound water or include significant infrastructure which could be targeted. Therefore the project is not considered vulnerable to the risks of war and terrorism.
Natural disasters	Natural disasters such as earthquakes, hurricanes, tornadoes, tsunami, volcanic eruptions, drought, landslides and avalanches are either non-existent or extremely rare in the UK. Therefore the project is not considered to be vulnerable to the risks of natural disasters.
Flooding	The Project is designed to provide flood relief will therefore reduce the vulnerability of people, property and infrastructure to the risks of flooding.
Manmade disasters	The Project crosses the M3 and a railway line in four locations. The probability of a large road or rail accident coinciding with these locations (such that it directly affects the flood relief channel below) is considered to be very low. Therefore the project is not considered to be vulnerable to the risks of manmade disasters.
Industrial accidents	The Project passes near to Sunbury Lock Gas Works, BP Oil terminal at Walton, three reservoirs (Queen Mother, Queen Mary and Wraysbury) and various WTW. The main risk associated with the gas works is a fire/explosion, however multiple safeguards are in place onsite, most of the tanks are buried and the force of any explosion would be predominantly vertical and result in falling debris which would be very unlikely to prevent operation of the capacity improvements at Sunbury. The main risk associated with the oil terminal and WTW's is a chemical or oil spill and resulting pollution of the River Thames, however multiple safeguards are in place and pollution is highly unlikely to prevent operation of the RTS. The main risk associated with the reservoirs would be embankment failure and flooding, however there are multiple safeguards in place (e.g. regular inspections, failure assessments, emergency spillways) making the probability of this highly unlikely. Therefore the project is not considered to be vulnerable to the risks of industrial accidents.
Disease outbreaks	Operation of the Project will be automated (excluding periodic inspection and maintenance) therefore it could still be operated during a disease outbreak should movement of people be restricted during a flood.
Disruption of: communication systems, transport facilities and health services	The Project will provide flood relief to communication and transport infrastructure. Therefore the project is not considered to be vulnerable to the risks of events resulting in disruption to infrastructure and services.
Disruption of: supply of money, food, water, energy or fuel	The Project will provide flood relief to people, property and infrastructure. Including continued access for communities to food, water and energy during a flood event. Therefore the project is not considered to be vulnerable to the risks of events resulting in disruption to supply of money, food, water, energy or fuel.
Events resulting in: loss of human life, human illness or injury, and homelessness	The Project will provide flood relief to people and property and is therefore not considered to be vulnerable to the risks of flooding. To the contrary, it will reduce the vulnerability of people and property to the risks of flooding thereby reducing the likelihood of loss of life, illness, injury and homelessness.
Damage to property	The Project will provide flood relief to property and is therefore not considered to be vulnerable to the risks of flooding. To the contrary, it will reduce the vulnerability of property to the risks of flooding thereby reducing the likelihood of homelessness following a flood event.