

Singapore Stanford Partnership Programme

MS Project MS08-01

Assessment of Hazard Zones for Radioactive Waste Disposal

Adrian Law WK

Alvin Chew (RSIS)

Nuclear energy is experiencing a resurgence of interest around the world, and in Southeast Asia in particular, due to the rising price of crude oil as well as the heightened concern of CO₂ emission from fossil-fuel-based power plants. Nuclear reactors however do also generate undesirable radioactive waste products that are highly hazardous, and need to be properly stored and disposed. In this project, we investigate the state-of-the art approaches in terms the storage and disposal of nuclear wastes. In addition, we will investigate the technical analysis required to assess the risk and extent of the hazard zones accompanied by the nuclear power plant and the radioactive wastes.