

Active structure and capable faults in Oma Nuclear Power Plant, Aomori, northern Japan

*Mitsuhisa Watanabe¹

1. Faculty of Sociology, Toyo University

Tectono-geomorphic investigations clarify that submarine active fault has played important roles in the acute uplift of the northwestern part of Shimokita peninsula. The Oma Nuclear Power Plant is under construction in this seismo-tectonically active area. There are many capable faults in the site of the plant. The S-10, S-11, cf-1, E29, and E33 faults cut and deform marine terrace sediments (MIS 5e to MIS 5c in age). Such unstable area is not the right ground for nuclear power facilities. Following scientific on-site safety inspections, we should build the facilities with engineering safeguard against the possible incidents.

Keywords: tectonic landform, submarine active fault, capable fault, Shimokita peninsula, Oma Nuclear Power Plant