

The Hanul Nuclear Power Plant #2 is type of Pressurized-water reactor and has two units (Hanul unit 3 & 4). We tried to shutdown the reactor to overhaul periodically and conduct plugging in order to repair defective heat-transfer tubes of the steam generator. But the tube plugging rate of the steam generator exceeded the permissible rate. We decided to replace the S/Gs.

We set up the expected collective dose and control the individual dose. And we applied some methods (installation of the radiation shielding materials, pre-mockup training, using the air cleaning units, ect) to reduce the exposure dose. We also managed the solid radioactive waste generated during SGR, Steam Generator Replacement.

From this report, you can understand the radiation safety management that we conducted during SGR and compare with the result of SGR between Hanul unit 3 and unit 4.