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JAEC plan to switch the existing Co-60 irradiation facility to an e-beam/X-ray 5MeV facility. The facility can be switched with extra shielding for the walls that vary depending on accelerator orientation. Increasing the capacity of existing solar system will solve the high electrical power consumption. More shielding calculations will be done by using FLUKA Monte Carlo Code by choosing the optimum accelerator place for both orientations to minimize the extra walls shielding.