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## Starting from scratch –Safeguards by design work in the Hanhikivi-1 NPP Project

Fennovoima Ltd is building a AES-2006 NPP in Pyhäjoki. Hanhikivi Site is a green field, without any kinds of former industry activities located nearby. The Plant Supplier is RAOS Project (subsidiary of Rusatom Energy International), and the project is now in the licensing phase. The construction of the plant is to start after granting of construction license by the Finnish government scheduled for 2019 and commercial operation in 2024.

Since Fennovoima is a new utility and Hanhikivi is a new site, the safeguards work was started from the scratch. From the beginning of the Project, the idea has been to include “Safeguards by design”(SbD) concept to the plant project. The Plant Supplier agreed in the EPC Contract to include the detailed safeguards requirements for their responsibility.

Within the SbD framework, Fennovoima and the Plant Supplier have been cooperating to include the needed requirements in the plant licensing. In practice, this meant inviting the Plant Supplier, Finnish Regulators (STUK), IAEA and European Commission to the same table to discuss. The first meeting held in October 2017 was successful, and the SbD work continues as a part of everyday work.

Even though Fennovoima will not possess actual nuclear materials for couple of years, the company needs to prepare the systems and procedures to have them ready and running prior to the arrival of the nuclear materials. Meanwhile, the safeguards work includes also the control of the Nuclear Use Items (mostly data and equipment), creating procedures and instructions and training people.

During the safeguards work, STUK, IAEA and European Commission have been great aid by providing the necessary trainings and guidance.

### Which “Key Question” does your Abstract address?

NEW2.3

### Topics

NEW2

### Which alternative “Key Question” does your Abstract address? (if any)

**Primary author:** Ms PELLINEN, Kaisa (Fennovoima)

**Co-author:** Ms VIRLANDER, Hanna (Fennovoima)

**Presenter:** Ms PELLINEN, Kaisa (Fennovoima)

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