



# ENGINEERING

Featuring an integrated engineering department, SOCODEI offers advanced engineering solutions and innovative processes in the field of nuclear materials and waste treatment. A team of experts with mastery of advanced technologies is at the service of SOCODEI's customers in full compliance with all regulations.

## Design and Performance

The know-how of the SOCODEI teams ensures proper handling of the special radioactive materials and waste by performing prior studies and customizing the processes.

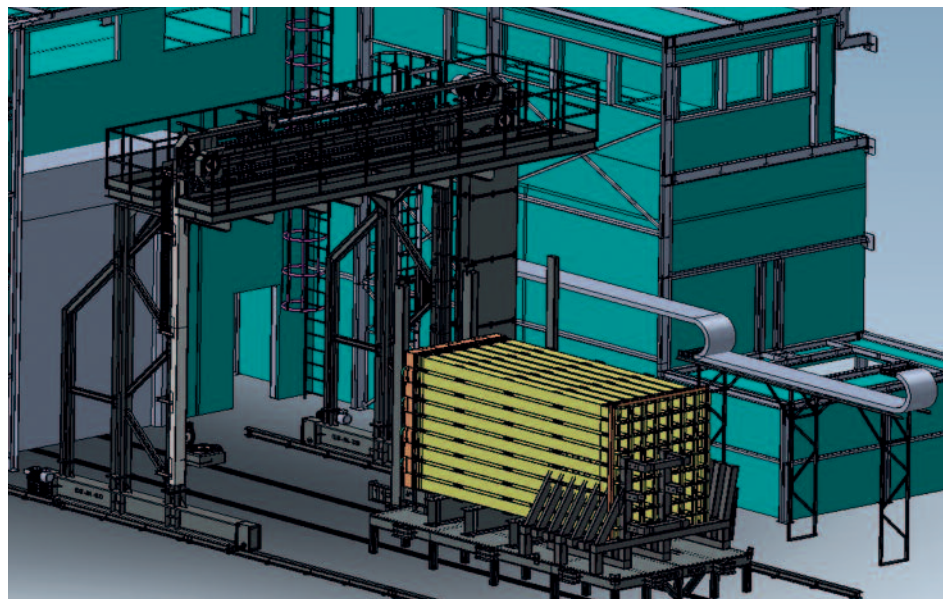
### EXAMPLES OF PROCESSES IMPLEMENTED BY SOCODEI TO MEET ITS CUSTOMERS NEEDS:

- Design and construction of a mobile machine for the on-site encapsulating of radioactive resins,
- Design and construction of an x-ray scan monitoring device for waste packages,
- Design and construction of a high-capacity liquid effluents storage facility,
- Study and design of an incineration line for contaminated heavy fuel oil,
- Design and construction of a remote-controlled sawing bench for radioactive waste packages,
- Design and construction of a processing workshop for large components,
- Study and design of a mobile machine for immobilization of radioactive sludge on site,
- Study and design of packaging for conditioning and transporting waste,
- Reviewing of "Article 26" applications for the establishment of new processes, according to Safety Authority requirement before implementation.

### ONGOING STUDIES AND PROJECTS

- Study and definition of a non carcinogenic, mutagenic or toxic waste immobilization matrix,
- Study of the processing of fuel racks,
- Design study for a foundry unit for the processing of VLL metallic waste essentially resulting from dismantling,
- Design study for a lead processing foundry unit,

- Implementation and processing of waste in barrels with bitumen,
- Construction study and follow-up for a maintenance base for the EDF fleet's tools,
- Sorting, reconditioning and dismantling services for bulk waste and tools stored in containers.



Racks Workshop

## Other Services

### DESTRUCTIVE TESTING FOR NUCLEAR WASTE EXPERTISE

Thanks to its knowledge of LL / ML nuclear waste and a customized fleet of machines, SOCODEI can perform expertises of nuclear waste: sampling, destructive testing on packages sealed in concrete or steel and on any type of matrix, by sawing or drilling.

### LABORATORY ANALYSIS OF RADIOLOGICAL PRODUCTS

A laboratory analysis enables SOCODEI to develop specific protocols and perform chemical and physical-chemical analyses and testing related to new waste treatment projects within the CENTRACO plant.

## Know-How

### SOCODEI HAS ACQUIRED SOLID KNOW-HOW IN ENGINEERING. THE SKILLS DEVELOPED INCLUDE:

- Project Management,
- Regulatory studies,
- Process Engineering,
- Mechanics,
- Electricity and fluids,
- Radiation Protection, Chemistry,
- HVAC,
- Logistics,
- Safety,
- Building, Civil Engineering,
- Handling,
- Final Package Agreements.

This knowledge, combined with the experience of operating specialized radioactive waste treatment industrial processes, gives SOCODEI the ability to meet its customers' demands and offer them new avenues for handling waste before shipment to the storage centers.

It is also thanks to these skills that SOCODEI replies, alone or in partnership with other experts, to national and international tenders in the field.

HERE **EDF** IS BUILDING THE  
**MAINTENANCE BASE**  
FOR ITS NUCLEAR FACILITIES



**socodei** CONSTRUCTION AND OPERATION

WITH THE FINANCIAL PARTICIPATION OF GIP HAUTE-MARNE

Commissioned in 2017



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