

ID	PARTICIPANT'S QUESTIONS	INPP RESPONSES
1.	The question is regarding the possibility to participate to phase 3 (realization/execution of the dismantling activities) for the company who gets the phase 1 and 2 contract (optioneering and detailed design and safety study).	According the latest available information the workforce for the performance of Zone R3 dismantling and RWISF operation shall be provided by staff of the State Enterprise INPP. However, depends on INPP staff availability, the involvement of external companies to phase 3 (realization/execution of the dismantling activities) might be considered. For the company who gets the phases 1 and 2 contract their possibility to participate at Phase 3 tender will be determined on the basis of laws for the time being in force.
2.	Who will be responsible for the selection of criteria for choosing the best option? How many options shall be considered and developed?	The contractor will be responsible for development of the detailed optioneering methodology determining and justifying the selected criteria based on the general requirements formulated by INPP in the technical specification. The Conceptual Design is to be developed only for the best option after its agreement by INPP.
3.	How will the process of coordinating the Environmental Impact Assessment Report within Espoo Convention be advanced if one or several countries in the transboundary space object to the proposed options? When will the supplier receive payment?	This issue will be resolved under the rules established in the Espoo Convention (settlement of disputes, arbitration). The payment schedule will be provided in the procurement documents with reference to the implementation of significant stages of work.
4.	On the one hand, INPP declares that the Refueling Machine, the Fuel Bundles Handling machine will be dismantled before the start of Zone R3 dismantling, and on the other hand requests that the infrastructure reuse shall be taken into account, as indicated in the presentation on slide 10.	There is no contradiction. INPP has decided that the Refueling Machine in the Central Hall and the Fuel Bundles Handling Machine in the Spent Fuel Hall shall not be reused. They will be dismantled and removed before Zone R3 dismantling. However, if the consultant proposes to handle activated waste under water, it will be possible to make use the existing premises and the corresponding systems of lighting, ventilation, etc.
5.	Will all information about Zone R3 items be provided? In which format will reactor drawings be provided: paper, pdf, dwg? What is the purpose of the Gap Analysis?	INPP will provide the required design, operation, maintenance and decommissioning information with regard to the initial physical status of the facility, waste forecasts, radiation conditions, including “nuclide vector” compositions and available Waste Acceptance Criteria for free-release waste and short-lived radioactive waste repositories. INPP will provide drawings in their existing format: it will be “pdf” format mainly. When INPP data are not available, the consultant shall conduct additional investigation and testing, develop its own descriptions, support methods, modelling and calculations. The purpose of the gap analysis is to identify the necessary activities to be performed in readiness for subsequent stages of the project. A full specification of the Gap Analysis will be provided in the TS.

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6.	Can the participants get 3D models?	3D Digital Engineering and Radiation Models do not exist for INPP Zone R3. There is only a demonstration model without engineering and radiological data of equipment elements and structures. This model can be handed over to the consultant, but without any INPP responsibility for its accuracy.
7.	Where are the project boundaries for process equipment?	A preliminary list of items to be dismantled is presented in the Data Sheet. Complete information describing the project boundaries will be presented in the Tender Documents.
8.	What is a Conceptual Design? What is the concept? Are the requirements for Conceptual Design available?	The Conceptual Design shall be based on optioneering and proposed solution by the consultant. A detailed description of the Conceptual Design and requirements to be applied will be specified in the Tender Documents. In general, the Conceptual Design should describe the selected option at a level of detail sufficient for the final decision making by the stakeholders concerned. The Conceptual Design will be the basis for the development of the Design.
9.	Are there any restrictions for the contractor who wins the first part of the tender to participate in the next stages of the procurement? Is it likely that the successful tenderer at stage 1 will be excluded from stage 2?	Stage 1 will comprise Design Options Report, Conceptual Design and EIAR; Stage 2 will comprise TD, SAR, etc. The contracting arrangements will be such as to permit the consultant for Stage 1 to perform also Stage 2 subject to satisfactory performance and acceptance of the Conceptual Design. Separate technical specifications will be developed for Stage 1 and Stage 2.
10.	Where will Zone R3 dismantling waste be stored? What does it mean "interim reactor waste storage"?	Class 0 waste shall be free-released. Short-lived Zone R3 dismantling waste will be disposed in the Landfill repository (Class A waste) and Near-Surface Repository (Class B+C waste). For long-lived waste, it is necessary, in the scope of the project, to resolve the issue of storage for at least 50 years ("interim storage") pending disposal in a deep geological repository (currently planned to be commissioned in 2066 and outside the scope of this project).
11.	There are some INPP dismantling tools or prototypes. Will the contractor be obliged to use such tools? Does INPP have any preferred dismantling technology (e.g. thermal or mechanical)?	The contractor is not obliged to use INPP tools or their prototypes. However, re-use of existing INPP tools and facilities is possible, subject to availability, if this will be shown to be economically reasonable. INPP has no preferences for any specific dismantling technology.
12.	What are the requirements for the tenderers? Which references are required (EC contracts, RBMK experience; graphite experience; etc.)?	The requirements for the tenderers will be specified in the Tender Documents

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13.	Will the issues of tender security, performance security and pre-qualification be reflected?	The requirements for tender security, performance security and pre-qualification will be specified in the Tender Documents.
14.	Will 3D modeling be welcomed?	3D modeling is welcomed.
15.	How long is it planned to store dismantled channels in the deep geological repository?	Channel dismantling and storage, as well as deep geological disposal are outside the scope of this project.
16.	Will INPP provide the information about available storage capabilities?	Yes, INPP will provide the information about relevant available storage capabilities.
17.	Will Zone R3 works include reactor channels dismantling?	Reactor channel dismantling will be performed prior to the start of this project and is therefore outside its scope.
18.	Will the technical design be included into stage 1 of the procurement procedure?	Development of the Technical design will be included into Stage 2 (ref. Q8).
19.	Is it likely that dismantling work will be procured?	The decision on Zone R3 D&D works implementation will be taken on the basis of Zone R3 design solutions and INPP staff availability.
20.	Is it one tender for optioneering and dismantling and decontamination or these are several tenders?	Please refer to the answer to Q8
21.	How deep the samples are taken from graphite bricks?	INPP has the possibility to take samples from inside the graphite bricks 15-20 mm perpendicularly to the axis of the graphite column.
22.	Is there any information about gaps between graphite bricks.	There is design information about graphite brick gaps. INPP did not measure graphite brick gaps during the operation period. INPP took some pictures during visual inspection of Unit 1 graphite columns from inside 10 of them in 2015, these results will be provided to all the tenderers after the tender will be launched where it has been justified that this information is essential to the preparation of a proposal.
23.	There are two strategies: underwater and no water. Do you exclude underwater approach?	INPP has excluded the underwater approach for Zone R3 dismantling due to the significant number of penetrations, associated leak tightness, water-material (graphite) interactions, material dewatering or drying, uncertainties in liquid waste treatment, etc. Zone R3 was never filled by water or other liquids during operation and maintenance.

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24.	Did you do chemical (element) analysis of the samples?	Some chemical (element) analysis of the samples was performed during radiological characterization. INPP does not have the initial chemical (element) analysis of reactor materials and associated records.
25.	Do you have any sampling from piping? Dose rate is a very interesting aspect.	Yes, INPP has taken the samples from piping, these results will be provided to all the tenderers after the tender will be launched where it has been justified that this information is essential to the preparation of a proposal.
26.	How much per cent of overall INPP waste are going to free release?	Up to date (2018), about 80 percent of overall INPP dismantled equipment (41,4 of 50,3 thousand tonnes) was free-released.
27.	Are there any automatic characterization devices for homogeneous waste streams?	Yes, there are some automatic characterization units for existing waste streams, in particular, Free Release, radioactive Class A solid waste, radioactive Class B+C solid and liquid cemented waste.
28.	Question regarding government regulation of nuclear waste disposal. In Germany it is prohibited to dispose such waste. What is the situation in Lithuania?	Lithuania uses the term of "radioactive waste" but not "nuclear waste". The Lithuanian Programme for Radioactive Waste Management Development states that all radioactive waste shall be disposed of in appropriate repositories. Lithuania is constructing at INPP two near surface repositories for short-lived waste and plans a deep geological repository for long-lived radioactive waste.
29.	Have you considered acceptance of waste from other countries or disposal in other countries?	The project is to be developed within the Lithuanian legal framework which currently does not foresee import or export of radioactive waste.
30.	Does B2/3/4 take decommissioning waste? Where does graphite go? What is the route?	B2/3/4 facility takes the majority of short-lived decommissioning waste and limited amount of long-lived decommissioning waste. The problem of storing graphite and other long-lived waste from Zone R3 should be solved by the contractor within the frame of the project taking into account the existing infrastructure.
31.	Do you plan to use buffer storages or other?	Yes, INPP uses buffer storages.
32.	How much time does licensing take?	There is no formal licensing from the nuclear regulator in Stage 1. In Stage 2, the licensing period will depend on the quality and complexity of presented documents and involved authorities; it should not normally exceed 6-12 months.
33.	What is your flexibility? Is VATESI ready to respond to changes? Do you need a detail plan or just an application?	The question is not clear.
34.	Do you have one regulator?	INPP has one regulator for nuclear safety (VATESI) including radiation protection in the frame of decommissioning. There are also regulatory bodies controlling other fields of activity (e.g. construction or environment impact assessment).
35.	Question regarding the time schedule for reactor dismantling	The target date to finish dismantling both reactors is 2035.

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36.	Reactor waste: do you plan to have something like storage in Switzerland?	Information on storage and disposal facilities available for INPP waste will be provided in the tender documents.
37.	Is your time schedule flexible? Can we shift the steps (tasks)?	Acceleration of works is acceptable, but delay is not acceptable. Some steps (tasks) could be shifted by agreement with INPP without overall prolongation.
38.	Do R1 and R2 works enable to come to R3 step?	Zone R1 and R2 works shall not be included in the Zone R3 project. . Zones R1 and R2 equipment will be completely dismantled and removed before the start of R3 D&D. Implementation of R3 preparatory works can be launched in parallel with some of R1/R2 final works and shall be well coordinated with the main D&D activities
39.	Are the channels long? Do you need to cut them?	Reactor channel dismantling is outside of the scope of Zone R3 works. (For interest only: the R1 and R2 channels are about 20 m long. INPP will cut them after retrieval).
40.	Do you have liquid waste processing line? Does cementing of liquid waste fit to repository requirements?	INPP has an operational liquid waste processing facility. The cemented waste packages comply with the WAC of the near-surface repository (NSR). Any proposal for chemical decontamination made by the consultant would have to be take into account the characteristics of this facility, the WAC and available disposal capacity (it is excluded the long-lived waste decontamination).
41.	Does INPP have the library of samples? Did INPP perform radioactive waste forecasting taking into account decommissioning lifespan?	Yes, INPP stores the samples which were received from radiological surveys. Taking into account measured and calculated activities INPP performs possible forecasting along decommissioning lifespan. Nevertheless INPP understands that additional review of forecasts might be performed for the purpose of this project.
42.	What are the main criteria for technical and commercial assessment?	The criteria for technical and commercial assessment will be specified in the Tender Documents.
43.	What is the budget allocated by the EU for the program "2103 UNIT 1 and 2 Reactor's dismantling in zone R3"?	The level of EU funding for the project will be established according the relevant legislation in advance of the tender.
44.	What is the estimated cost of the contract for this project "R3D.01 (2103.026S) as referred to in your "Data Sheet for Potential Suppliers Issue 2" Item 8 'Main Risks', p12/13?	Please refer to the answer to Q42.
45.	Can you send a copy of the draft contract to be used for the Engineering Services?	The draft contract shall constitute a part to the tender documents and made available to all the tender participants.

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46.	Will it be possible to raise additional questions after release of Technical Specifications and Request for Proposal (RFP)?	The Technical Specification shall be officially published not less than 10 days prior to tender documents publishing. Participants of the tender have the possibility to request clarification of the requirements of the technical specification and the tender documents.
47.	Please clarify which stakeholders from neighboring countries will be involved in the project and to what extent this may have an impact on the scope of the Engineering Services, for example under Espoo convention.	According to the Espoo convention Lithuania will inform affected Parties about the planned activity. The affected Parties will confirm their participation in the environment impact assessment. The decision about participation in the Environmental Impact Assessment should be made by the affected Parties. It is likely that some EU countries, Belarus and Russia will confirm participation in the EIA.
48.	Do specific dismantling works need construction permits?	According to practice, dismantling works do not need construction permits. Construction permits are required in the case of new building construction and may be needed for construction work inside the existing building where there is impact on the supporting structures (in this case, an expertise of structures may also be needed).
49.	Shall the Safety Analysis Reports be prepared for the whole reactor dismantling project or just for separate units?	The Safety Analysis Reports shall be prepared for the whole reactor dismantling project, but this is a task for Stage 2.
50.	Please inform the potential suppliers about planned start of tendering procedures regarding to R3 optioneering, conceptual design and environmental impact assessment report preparation (participant question by 30 April 2019).	Ignalina NPP is planning to launch tendering procedures at the 2 nd half 2019. According public procurement rules tender documents will be published on Central Public Procurement web site http://www.cvpp.lt/