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**SUBJECT:**

WORK ORDER PROPOSAL

Training on Plant Life Management and Ageing Management Programs for VVER NPPs.

**WORK ORDER PROPOSAL**

Based on the Framework Agreement between the AEOI and the UJV from December 12, 2016, the parties agreed on following:

1. Scope of Services / Deliverables

**2-Week Training on Plant Life Management and Ageing Management Programs for VVER NPPs.**

Particular training topics are specified in the following subchapters:

## Introduction

Issues included in the topic:

* PLIM/AM terminology, definitions and philosophy
* Existing AM requirements
* AM during all stages of NPP life (proactive strategy)
* Basic elements of PLIM process

## AMR development

Issues included in the topic:

* AM review requirements
* AM Catalogues (GALL, IGALL, UJV catalogue for VVER NPPs)
* Structure or component AM Matrix
* Detail training on AM review of selected group of mechanical, civil, electrical or I&C SSCs

## AMP development

Issues included in the topic:

* Overview of typical ageing management programmes (components and specific)
* Generic attributes of an effective ageing management program (according to relevant IAEA Safety Standards)
* Applicable monitoring and mitigation methods
* Detail training on selected Component or Specific AM program

## TLAA development

Issues included in the topic:

* Overview of typical TLAAs
* Specific issues of VVER’s TLAAs
* Detail training on selected TLAA

## Case study and implementation of AMP in NPP

Issues included in the topic:

* Status of AMP implementation on the Czech NPPs (Dukovany, Temelín)
* Control documentation, organization, staffing for AMP
* Experience from AMP implementation on the Czech NPPs

**Input data requirements**

Description of BNPP experience and specifics to be taken into account during the training.

1. Deliverables

Training documentation.

UJV training certificate.

1. Staff

*The following person shall be designated as Work Order manager*

Jan Wandrol, Head of Structural and lifetime assessment department

1. Schedule

*The scope of the Services shall be performed and deliverables made available to the AEOI by the following schedule:*

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| * Commencement of Services: | T0 + 3 months |
| * Milestones: | Duration of the training: 2 weeks |
| * Completion of Services: | T0 + 3,5 months |
| * Deliverables: training documentation, approved UJV training certificate for each training participant | Last day of the training. |

1. Remuneration

The remuneration for the provision of the scope of the Services is as follows:

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|  | **Trainers** | **Number of hours** | **Rate (USD/hour)** | **Price** |
| Training preparation | 2 | 160 | 85 | 27 200 USD |
| Training | 2 | 80 | 85 | 13 600 USD |
| Price of know how transfer |  |  |  | 30 000 USD |
| Total |  |  |  | 70 800 USD |

At a fixed price of 70 800 USD (remuneration is calculated for the maximum number of 10 participants)

On a reimbursable basis at the agreed rates and on the basis of the cost estimates in the proposal (which estimate may not be exceeded without the AEOI's prior approval).

On a reimbursable basis at the agreed rates – cost estimate to be defined. (Travel and living expenses in the case of training in Iran. Expected number of experts: 2-3)

1. Terms of Payment

To be specified later

1. Background Information and specification of necessary cooperation

Description of BNPP experience and specifics to be taken into account during the training.

Possibility to use 2-3 UJV working laptops – all presentations and training materials will be presented from UJV laptops.

1. Completion and Acceptance Criteria

Successful presentation of the training topics.

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| **Atomic Energy Organization of Iran** |  | | **ÚJV Řež, a. s.** |
| Date: |  |  | Date: |
| Name and Surname  Position |  |  | Name and Surname  Position |
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| Name and Surname  Position |  |  | Name and Surname  Position |