

DEPARTMENT of NUCLEAR SAFETY AND SECURITY

**IAEA NATIONAL WORKSHOP**

WORKSHOP AGENDA

Workshop on Equipment Qualification and Ageing Management for Civil Structures

30 May – 1 June 2022

Tehran

- Islamic Republic of Iran –

Workshop on Equipment Qualification and Ageing Management for Civil Structures for Bushehr NPP

Type of assistance: National Workshop

Organizations: Tavana, Bushehr NPP, INRA

Place: Tavana office, Tehran, Iran

Liaison officer: Mr. Majid Talebi, Head of Technical and Engineering Department, Tavana, email: tavanaengdep@nppd.co.ir

Needs and objective:

1. Improve awareness and provide information on IAEA ageing management and LTO activities
2. Provide presentations and discussions on equipment qualification and ageing management of civil structures

Scope of assistance:

1. IAEA activities in LTO and AM
   1. IAEA Safety Standards related to LTO, EQ and AM, update of IGALL Programme
2. Provide presentations on national approaches to:
   1. Equipment qualification
      1. Concepts and Process for EQ
      2. Relation between EQ and "Design Basis Management" and "Margin Management" programs in NPP
      3. Selecting Appropriate Qualification Methods for Electrical and Mechanical Equipment (with some practical samples)
      4. Description of the Qualification Methods in Harsh-Environment, Mild-Environment and for Digital Equipment
      5. Assessing ageing effects
      6. Equipment Qualification Preservation
      7. Operating Experience on Equipment Qualification in NPPs
   2. Ageing management of civil structures
      1. Concepts and Process of AM for civil structures
      2. Selecting Appropriate Qualification Methods for Structures
      3. Description of the qualification methods for ordinary building and hydraulic structures, acoustic qualification, sources of seismic waves and other sources of dynamic loads
      4. Assessing ageing effects
      5. Preservation of structural qualification
      6. Operating Experience on Structural Qualification in NPPs

Technical officer: Mr. Gabor Petofi, IAEA (G.Petofi@iaea.org)

Experts:

1. Mr. Vit Placek, UJV Rez, a. s., Hlavni 130, Rez, 25068 Husinec, Czech Republic, e-mail: vit.placek@ujv.cz; cell +420 777 568 405
2. Mr. Javed Iqbal, Pakistan Atomic Energy Commission, Islamabad, Pakistan, phone: +(92) 51 9246082, Cell phone: + (92) 303 5106310, email: dr.javediqbal@paec.gov.pk

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| **AGENDA** | |
| ***Day 1, Monday, 30 May 2022*** | |
| *08:00*  *09:00*  *09:10* | Departure from the hotel  Workshop Opening – TBD (Tavana/Bushehr NPP)  01\_Mr. Petofi – IAEA Safety Officer - Introduction, objectives and schedule  Short introduction of the experts (Mr. Placek, Mr. Iqbal)  Introduction of NPP and other participants |
| 09:10  09:30 | Short ( max 10 min) country nuclear industry /company presentation of  02\_Mr. Placek  03\_Ms. Iqbal |
| 09:30  10:15 | 04\_Bushehr NPP approach to equipment qualification and ageing management of civil structures Tavana/BNPP representative |
| *15 min Coffee break* | |
| 10:30  11:15 | 05\_IAEA Safety Standards related to LTO, EQ and AM – Mr. Petofi, IAEA |
| 11:15  12:00 | 06\_– Mr. Placek |
| *Lunch break* | |
| 13:00  13:45 | 07\_– Mr. Iqbal |
| 13:45  14:30 | 08\_ – Mr. Placek |
| *15 min Coffee break* | |
| 14:45  15:30 | 10\_ – Mr. Iqbal |
| 15:30  16:15 | Discussions |

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| ***Day 2, Tuesday, 31 May 2022*** | |
| 09:00  09:45 | 01\_ IAEA SALTO peer review service and its methodology – Mr. Petofi, IAEA |
| 09:45  10:30 | 02\_– Mr. Placek |
| *15 min Coffee break* | |
| 10:45  11:30 | 03\_ – Mr. Iqbal |
| 11:30  12:15 | 04\_ Plant level AMP and effectiveness of AMPs – Mr. Petofi |
| *Lunch break* | |
| 13:00  13:45 | 05\_– Mr. Placek |
| 13:45  14:30 | 06\_ Mr. Iqbal |
| *15 min Coffee break* | |
| 14:45  15:30 | 07\_ – Mr. Placek |
| 15:30  16:15 | 08\_ Discussion |

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| ***Day 3, Wednesday, 1 June 2022*** | |
| 09:00  09:30 | 01\_ IGALL Programme – Mr. Petofi, IAEA |
| 09:30  10:15 | 02\_ – Mr. Placek |
| *15 min Coffee break* | |
| 10:30  11:15 | 03\_ Mr. Iqbal |
| 11:15  12:00 | 04\_ Mr. Placek |
| *Lunch break* | |
| 13:00  13:45 | 05\_ Mr. Iqbal |
| 13:45  14:30 | 06\_ Mr. Placek |
| 14:30 | Future planning, workshop wrap-up, conclusions, Adjourn |