**IGALL Phase 4 Working Group 5**

**Table of contents for developing Member State contributions for a TECDOC on ageing management during delayed construction, prolonged outages, extended shutdown and post final shutdown**

**Potential objective of the TECDOC**

The objective of the TECDOC is to summarize the Member States’ experience in ageing management during delayed construction, prolonged outages and extended shutdown states of nuclear power plants. The possible structure of the TECDOC can follow the three mentioned periods defined as the objective. It can summarize the Member States experience on each area and then should attempt identify commonalities, challenges in the practice in order to develop guidance how to manage ageing in these specific periods.

**Purpose of first meeting**

Purpose of the first meeting is to collect and discuss the Member States experience, clearly define the objective and scope of the TECDOC and develop its annotated contents that can be sent for approval of the IGALL steering committee. The basis for the annotated contents will be the Member States experience that is requested to be presented during the work group meeting.

**Table of contents for writing Member States contributions**

The reports of your contribution should follow the below structure. The titles are representing the minimum scope of the contents (so please do not delete), but you can add further items or create sub-items as necessary. If a subchapter is not relevant, or you have nothing to present, please indicate (n/a or explaining why it is left empty).

Please try to be concise, but sufficiently descriptive for the reader to understand your practices, processes. Each Member State represented in the working group is requested to fill in that chapter of the structure where it has experience in ageing management. That means that practices of the EPRI, Armenia, Brasilia, Germany, India, Iran, Japan, Pakistan, Romania, Slovakia, Switzerland and hopefully Canada will be presented and included.

1. Description of the plant(s)

The table should be repeated for all plants, for which relevant experience is described in the following chapters.

|  |  |
| --- | --- |
| Country |  |
| Reactor Type  |  |
| Model |  |
| Power |  |
| Construction history (including relevant major milestones) | 1. 2.  |
| Operational history (including prolonged outages and/or extended shutdowns) | 1.2. |
| Post final shutdown (including relevant major milestones) | 2014 |
| Current status | Operational |

1. Experience of the Member State in ageing management during delayed construction

1.1. Ageing management activities carried out during delayed construction (as a complex activity or individually for specific designated SSCs). Please describe according to the 9 attributes of an effective ageing management programme as in SSG-48 Table 2. The attributes could be described for SSCs/commodity groups as appropriate.

* + - 1. Scope of SSCs covered in ageing management
			2. Preventive actions to minimize and control ageing effects
			3. Detection of ageing effects
			4. Monitoring and trending of ageing effects
			5. Mitigating ageing effects
			6. Acceptance criteria
			7. Corrective actions
			8. Operating experience feedback
			9. Quality management

Those of you, who might not know the guide, please read this part carefully what to include in the specific attributes.

1.2. Description of identified degradations

1.3. Enhanced ageing management practices during operation to follow effects of ageing of long term stored components (could be also described according to the attributes per SSCs or commodity groups)

1.4. Challenges, specific practices identified for ageing management during delayed construction

1.5. Other specific experiences

* influence on inspection cycle periods
* affect on TLAA calculations
* affect on operating license
* etc.
1. Experience of the Member State in ageing management during prolonged outage

2.1. Ageing management activities carried out during prolonged outage (as a complex activity or individually for specific designated SSCs). Please describe according to the 9 attributes of an effective ageing management programme as in SSG-48 Table 2. The attributes could be described for SSCs/commodity groups as appropriate.

1. Scope of SSCs covered in ageing management
2. Preventive actions to minimize and control ageing effects
3. Detection of ageing effects
4. Monitoring and trending of ageing effects
5. Mitigating ageing effects
6. Acceptance criteria
7. Corrective actions
8. Operating experience feedback
9. Quality management

Those of you, who might not know the guide, please read this part carefully what to include in the specific attributes.

2.2. Description of identified degradations

2.3. Enhanced ageing management practices during operation to follow ageing effects detected during prolonged outage (could be also described according to the attributes per SSCs or commodity groups)

2.4. Challenges, specific practices identified for ageing management during prolonged outage

2.5. Other specific experiences

* influence on inspection cycle periods
* affect on TLAA calculations
* affect on operating license
* etc.
1. Experience of the Member State in ageing management during extended shutdown

3.1. Ageing management activities carried out during extended shutdown (as a complex activity or individually for specific designated SSCs). Please describe according to the 9 attributes of an effective ageing management programme as in SSG-48 Table 2. The attributes could be described for SSCs/commodity groups as appropriate.

1. Scope of SSCs covered in ageing management
2. Preventive actions to minimize and control ageing effects
3. Detection of ageing effects
4. Monitoring and trending of ageing effects
5. Mitigating ageing effects
6. Acceptance criteria
7. Corrective actions
8. Operating experience feedback
9. Quality management

Those of you, who might not know the guide, please read this part carefully what to include in the specific attributes.

3.2. Description of identified degradations

3.3. Enhanced ageing management practices during operation to follow ageing effects detected during prolonged outage (could be also described according to the attributes per SSCs or commodity groups)

3.4. Challenges, specific practices identified for ageing management during prolonged outage

3.5. Other specific experiences

* influence on inspection cycle periods
* affect on TLAA calculations
* affect on operating license
* etc.
1. Experience of the Member State in ageing management during post final shutdown

4.1. Ageing management activities carried out during post final shutdown (as a complex activity or individually for specific designated SSCs). Please describe according to the 9 attributes of an effective ageing management programme as in SSG-48 Table 2. The attributes could be described for SSCs/commodity groups as appropriate.

1. Scope of SSCs covered in ageing management
2. Preventive actions to minimize and control ageing effects
3. Detection of ageing effects
4. Monitoring and trending of ageing effects
5. Mitigating ageing effects
6. Acceptance criteria
7. Corrective actions
8. Operating experience feedback
9. Quality management

Those of you, who might not know the guide, please read this part carefully what to include in the specific attributes.

4.2. Description of identified degradations

4.3. Challenges, specific practices identified for ageing management during post final shutdown

4.4. Other specific experiences

* influence on inspection cycle periods
* affect on TLAA calculations
* affect on operating license
* etc.