



Programme Committee

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IAEA Secretariat:

Scientific Secretaries:	K-S. Kang
	R. Krivanek
Conference Coordination:	M. Khaelss

Location of the Conference:

Lyon Convention Centre (Centre de Congrès de Lyon)
Cité Internationale
50 Quai Charles de Gaulle
69443 Lyon cedex 06
France
www.ccc-lyon.com

Working Language: English

Resolutions: No resolutions may be submitted for consideration on any subject; no votes will be taken.

TIMETABLE**Sunday, 22 October 2017**

16:00-18:00 Registration and Distribution of Conference Material Foyer

17:30-19:00 Welcome Reception hosted by IAEA Foyer

Monday, 23 October 2017

08:00 Registration Foyer

09:30-10:00 *Welcome coffee* Forum 2

10:00-10:40 Opening session Forum 3

10:40-11:00 *Break*

11:00-12:40 Plenary session Forum 3

12:40-14:00 *Lunch / Exhibition and Poster Session* Forum 2

14:00-15:40 Parallel Session: 1-1 Approaches to Plant Life Management Saint Claire 2

Parallel Session: 2-1 Economics of Plant Life Management Saint Claire 3A

Parallel Session: 3-1 Ageing Management and Preparation for Long Term Operation Forum 3

Parallel Session: 4-1 Configuration and Modification Management for Safety Enhancement Saint Claire 3B

15:40-16:00 *Coffee Break* Forum 2

16:00-17:40 Parallel Session: 1-2 Approaches to Plant Life Management Saint Claire 2

Parallel Session: 2-2 Economics of Plant Life Management Saint Claire 3A

Parallel Session: 3-2 Ageing Management and Preparation for Long Term Operation Forum 3

Parallel Session: 4-2 Configuration and Modification Management for Safety Enhancement Saint Claire 3B

Tuesday, 24 October 2017

09:00-10:30 Plenary session Forum 3

10:30-11:00 *Coffee Break* Forum 2

11:00-12:40 Parallel Session: 1-3 Approaches to Plant Life Management Saint Claire 2

Parallel Session: 3-3 Forum 3

Ageing Management and Preparation for Long Term Operation

Parallel Session: 4-3 Configuration and Modification Management for Safety Enhancement Saint Claire 3B

Parallel Session: 6-1 Regulatory Approaches to Ageing Management and Long Term Operation Saint Claire 3A

12:40-14:00 *Lunch / Exhibition and Poster Session* Forum 2

13:10-13:50 *Side Event organized by AMS Corporation* Saint Claire 2

14:00-15:40 Parallel Session: 1-4 Approaches to Plant Life Management Saint Claire 2

Parallel Session: 3-4 Ageing Management and Preparation for Long Term Operation Forum 3

Parallel Session: 5-1 Human Factors and Management Aspects Saint Claire 3B

Parallel Session: 6-2 Regulatory Approaches to Ageing Management and Long Term Operation Saint Claire 3A

15:40-16:00 *Coffee Break* Forum 2

Tuesday, 24 October 2017 (cont'd)

16:00-17:40	Parallel Session: 1-5 Approaches to Plant Life Management	Saint Claire 2
	Parallel Session: 3-5 Ageing Management and Preparation for Long Term Operation	Forum 3
	Parallel Session: 3-6 Ageing Management and Preparation for Long Term Operation	Saint Claire 3B
	Parallel Session: 6-3 Regulatory approaches to Ageing Management and Long Term Operation	Saint Claire 3A

Wednesday, 25 October 2017

09:00-10:30	Plenary session	Forum 3
10:30-11:00	Coffee Break	Forum 2
11:00-12:40	Parallel Session:1-6 Approaches to Plant Life Management	Saint Claire 2
	Parallel Session: 3-7 Ageing Management and Preparation for Long Term Operation	Saint Claire 3B
	Parallel Session: 3-8 Ageing Management and Preparation for Long Term Operation	Forum 3
	Parallel Session: 6-4 Regulatory Approaches to Ageing Management and Long Term Operation	Saint Claire 3A
13:00-13:50	Side Event organized by the French CEA	Saint Claire 2
13:00-14:30	Side Event organized by IFRAM	Saint Claire 3A
12:40-15:40	Lunch / Exhibition and Poster Session	Forum 2

Wednesday, 25 October 2017 (cont'd)

14:00-15:40	Parallel Session: 3-9 Ageing Management and Preparation for Long Term Operation	Forum 3
15:40-16:00	Coffee Break	Forum 2
16:00-17:40	Panel Discussion on Plant Life Management – Approaches, Economics and Safety Enhancements	Saint Claire 3A&3B
	Panel Discussion on Ageing Management and Preparation for Long Term Operation	Forum 3

Thursday, 26 October 2017

09:00-10:30	Panel discussion on Challenges and Needs For PLIM/LTO	Forum 3
10:30-11:00	Coffee Break	Forum 2
11:00-12:40	Closing Session Session Reports and Recommendations Closing statements	Forum 3

Friday, 27 October 2017

08:00-17:00	Technical Tours
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Poster Exhibition (Forum 2)

Poster authors are kindly requested to mount their poster by Monday lunchtime. Posters will be on display throughout the conference. Poster authors are kindly requested to be at their posters during the Poster sessions at lunch times.

Technical Exhibition (Forum 2)

The organizers invite all participants to visit the Technical Exhibition in Forum 2. The exhibition is open during conference working hours:

Opening: Monday 23 October at 10:30
Closing: Thursday 26 October at 12:30

SUNDAY, 22 OCTOBER 2017

16:00-18:00 Registration and Distribution of Conference Material (Foyer)

17:30- 19:00 Welcoming Reception Hosted by the IAEA (Foyer)

MONDAY, 23 OCTOBER 2017

08:00 Registration (Foyer)

09:30-10:00 *Welcome Coffee (Forum 2)*

10:00-10:40 Opening Session (Forum 3)

M. Chudakov, IAEA
Deputy Director General
Head of the Department of Nuclear Energy

E. Blanc, France
Vice-Governor
Auvergne Rhone Alpes Regional Council

D. Miniere, France
Senior Executive Vice President
EDF

M. Maschi, France
President
NUGENIA

10:40 -11:00 *Break*

MONDAY, 23 OCTOBER 2017 (cont'd)**11:00 – 12:40** **Plenary Session**
(Forum 3)**Chairperson:** M. Maschi, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
KS-1	P. Coic	France	Lessons Learned from the Fukushima Daiichi Accident That Are Relevant to Électricité de France's Long Term Operation Programme
KS-2	S. Cadet-Mercier	France	French Licensing Approaches for Long Term Operation
KS-3	Y. Dou	China	Challenges and Opportunities in Construction Technology and Management for Advanced Nuclear Power Plants
KS-4	K-S. Kang R. Krivanek	IAEA	IAEA Contributions to Plant Life Management and Long Term Operation

12:40-14:00 *Lunch / Exhibition and Poster session
(Forum 2)*14:00-15:40 **PARALLEL SESSION 1-1:
Approaches to Plant Life Management**
(Saint Claire 2)**Chairpersons:** T.R. Kim, Korea, Republic of
C. Cuillandre, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
001	T.R. Kim	Korea, Republic of	Stress Tests and Long Term Operation in Korea NPPs
002	D. Wood	USA	Component Asset Management with Ultra-High Pressure Cavitation Peening
003	H.A. Brossier V. Crépieux T. Sambourg Presented by D. Pillac	France	Reassessing and Extending Equipment Qualified Life for the EDF 900 MW NPP Series
004	K.J. Leonard	USA	Science-Based Approaches to Solving Materials Challenges Associated with Long-Term Nuclear Power Plant Operations

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MONDAY, 23 OCTOBER 2017 (cont'd)

14:00-15:40

**PARALLEL SESSION 2-1:
Economic of Plant Life Management**
(Saint Claire 3A)**Chairpersons:**J. Hanson, USA
A. Despujols, France*No. of Paper
IAEA-CN-246-**Name**Designating Member
State/Organization**Title of Paper*

005

Z. Tomsic

Croatia

Investment in LTO of NPP on Electricity Market from Market
Uncertainty to Policy Uncertainty

006

Y. Minami

Japan

Extension of Operating Period of NPPs Taking into Account
Cost Efficiency and Activities for Long Term OperationH. Takai
T. Ishikawa

007

E. Remy

France

EDF Suite of Tools to Support Economics Decision in Plant Life
Management

J. Lonchamp

008

D. Pluhař,

Czech Republic

Results and Conclusions of Technical-Economic Feasibility
Study of LTO Dukovany NPPO. Zlámal,
M. Vilím

14:00-15:40

**PARALLEL SESSION 3-1:
Ageing Management and Preparation
for LTO**
(Forum 3)**Chairpersons:**S. Ratkai, Hungary
A. De Jong, Netherlands*No. of Paper
IAEA-CN-246-**Name**Designating Member
State/Organization**Title of Paper*

009

S. Ratkai

Hungary

The Role of the IAEA in the Extension of Operation Life of MVM
PAKS NPP

010

M. Uesaka

Japan

Implementation of IGALL in Japanese NPPs

011

A. De Jong

Netherlands

Development of Ageing Management at NPP Borssele between
2009 and 2017..

R. Bollen

012

A.B. Pérez-Cerdán

Sweden

Scope Setting Process and Ageing Management Review for
LTO at Ringhals NPP

U. Bäckström

MONDAY, 23 OCTOBER 2017 (cont'd)

14:00-15:40 **PARALLEL SESSION 4-1:
Configuration and Modification
Management for Safety Enhancement**
(Saint Claire 3B)

Chairpersons: K.J. Leonard, USA
 T. Seitz, Germany

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
013	K.J. Leonard Z. Feng, W. Tang, R.G Miller, B.T Gibson, J. Chen, S.R. Clark, J.T. Busby, G. Frederick, J. Tatman, A. Peterson, B. Sutton	USA	Weld Repair of Irradiated Materials
014	J. Brom , P. Mares, A. Kobzova, M. Krondak	Czech Republic	Low Pressure Turbine Blades Lifetime Management – Complex Procedure for Monitoring and Evaluation of Blade Condition
015	Y. Miyoshi , Y. Kobayashi, T. Ueda	Japan	Replacement of Pressurizer Safe End Weld
016	T. Seitz A. Zander G. Gloth P. Brückner	Germany	Maintenance Optimization – Predictive vs. Preventive Maintenance
15:40-16:00	<i>Coffee Break (Forum 2)</i>		

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MONDAY, 23 OCTOBER 2017 (cont'd)**16:00-17:40** **PARALLEL SESSION 1-2:
Approaches to Plant Life Management**
(Saint Claire 2)**Chairperson:** T.R. Kim, Korea, Republic of, Rep of
C. Cuillandre, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
017	F. Zhang	China	Ageing Management Improvement of Open-cycle Cooling Water System for Operating License Extension in Qinshan Phase I
018	C. Cuillandre, G. Desvergnès	France	Assystem's Approach to Plant Life Management for NPPs Long Term Operation
019	G.A. Wilson	USA	From 40 to 60 to 80 years – Lessons Learned and Approach to Subsequent License Renewal in the USA
020	U. Wildner	Germany	AREVA Software Platform for Aging Management and Long Term Operation
021	M. Álvaro, M. Colomer, M. Baladía	Spain	Tecnomat Activities within the Framework of the Long-Term Operation at the Almaraz Nuclear Power Plant

16:00-17:40 **PARALLEL SESSION 2-2:
Economic of Plant Life Management**
(Saint Claire 3A)**Chairpersons:** J. Hanson, USA
A. Despujols, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
022	J. Hanson	USA	Long Term Benefits of Life Extension for U.S. Nuclear Power Reactors
023	S.-B. Son J.-W. Lee S.-R. Shon K.-B. Seong C.-J. Lim	Korea, Republic of	Hybrid Concept NPP Long-term Operation Strategy
024	L. Kupca	Slovakia	Long Term Operation of Bohunice NPP
025	N. Morris A. Margarit	France	Numerical Solutions: A Means to Analyse and Execute Safe, Cost- Effective Life Extension Projects of Operating Nuclear Power Plants
025-1	R. Szilard	USA	Applying RISMC Methods, Tools and Data to Enhance Safety and Economics through Industry Application Demonstrations

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MONDAY, 23 OCTOBER 2017 (cont'd)

16:00-17:40 **PARALLEL SESSION 3-2:
Ageing Management and Preparation
for LTO (Forum 3)**

Chairpersons: S. Ratkai, Hungary
 A. De Jong, Netherlands

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
026	J. Borak	Slovakia	Ageing Management Program for Bohunice and Mochovce Nuclear Power Plants.
027	M.B. Bakirov G.M. Bakirova V.P. Povarov	Russian Federation	New Methodology of Multiparameter Monitoring of Ageing Management of NPP Equipment.
028	M. De Smet	Belgium	Living Thermal Fatigue Management for Doel 1&2 and Tihange 1 Nuclear Power Plants
029	J. Wandrol M. Žamboch	Czech Republic	Complex Condition Assessment of SSCs for LTO
029-1	P. D'Haeyer	Belgium	Use of a Virtual Collaboration Work Place during the LTO Study Phase of Tihange 1 NPP and Doel 1&2 NPP for the Involved Organizations of ENGIE Electrabel and Tractebel

16:00-17:40 **PARALLEL SESSION 4-2:
Configuration and Modification
Management for Safety Enhancement
(Saint Claire 3B)**

Chairpersons: K.J. Leonard, USA
 T. Seitz, Germany

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
030	A. Kryukov V. Rubtsov	Russian Federation	A Low temperature "Wet" Annealing as an Instrument to Mitigate Irradiation Embrittlement of Low Copper Reactor Pressure Vessel Steels
031	M. Uesaka T. Inagaki	Japan	Establishment of Systematic Design Control/ Configuration Management Processes for Safe Operation of TEPCO NPPs
032	N. Kasahara, T. Sato	Japan	New Structural Engineering Approach to Enhance Resilience against BDBE
033	M.B. Bakirov, G.M. Bakirova, S.S. Pakhomov, E.S. Krutko I.V. Frolov	Russian Federation	Application Experience for Determining the Ageing of In Service NPP Determining the Instrumented Indentation Hardness Test Evaluation
034	M. Takizawa, S. Koshizuka	Japan	Development of Safety Research Roadmap for Plant Life Cycle Management of LWR.

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TUESDAY, 24 OCTOBER 2017

09:00-10:30 **Plenary Session :Keynote Speakers
(5,6,7)**
(Forum 3)

Chairperson: P. Coic, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
KS-5	G. Pironet	Belgium	Economic Assessment of Plant Life Management and Long Term Operation
KS-6	G.A. Wilson	USA	Licence Renewal and Second Licence Renewal
KS-7	S-C Lee	Korea, Republic of	Licensing Approaches Based on Intensive Periodic Safety Review

10:30 -11:00 *Coffee Break (Forum 2)*

11:00-12:40 **PARALLEL SESSION 1-3 :
Approaches to Plant Life Management**
(Saint Claire 2)

Chairperson: Y. Dou, China
M.B. Bakirov, Russian Federation

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
035	Y. Dou	China	Study and Practice on EQ technology for Full Life Cycle of NPPs
036	M. Miklos, V. Placek	Czech Republic	Support of Lifetime Management and Equipment Qualification
037	M. Vlatkovic	Canada	Environmental Qualification Program Requirements for the Long Term Operation of Canadian Nuclear Power Plants
038	M. Mochizuki	Japan	Japanese Codes and Standards to Support Long Term Operation of Nuclear Power Plant

TUESDAY, 24 OCTOBER 2017(cont'd)**11:00-12:40****PARALLEL SESSION 3-3:**Ageing Management and Preparation for
LTO
(Forum 3)**Chairpersons:**F. Blom, Netherlands
N. Prompt, France*No. of Paper*
*IAEA-CN-246-**Name**Designating Member*
*State/Organization**Title of Paper*

039

N. Prompt,
J.C. Le Roux,
R. Verlet,
T. Métais,
M. Pillou,
J. Berger,
P. Genette

France

EDF Approach of Fatigue Failure Prevention : a Sound Basis
for the LTO Perspective

040

F.J. Blom,
M.H.C. Hannink,
A. De Jong

Netherlands

Demonstration of Fatigue for LTO Borssele and Relation to
IAEA IGALL Relevant TLAAS and AMPS

041

M. M. Gris

Mexico

Fatigue Monitoring Program at Laguna Verde for LTO

042

Z. Han,
Y. Dou

China

Technical Support Activities of SNERDI during the First
Application of NPP Operational Licence Extension In China

TUESDAY, 24 OCTOBER 2017(cont'd)

11:00-12:40

**PARALLEL SESSION 4-3:
Configuration and Modification
Management for Safety Enhancement**
(Saint Claire 3B)**Chairpersons:**B.P. Hallbert, USA
L. Cretinon, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
043	B.P. Hallbert, K. Thomas	USA	Enhancing Nuclear Power Plant Operation and Efficiency through Holistic I&C Modernization Efforts
044	A.A. Andrashov, K.P. Leontiev, E.S. Bakhmach, V.S. Kharchenko, A.A. Kovalenko	Ukraine	NPP I&C Modernization Approaches Using FPGA-Based RadICS Platform
045	L. Crétinon, V. Ballesio, G. Wattiez, P.-S. Ly, D. Talbourdet, M. Lair	France	EDF PWR I&C Ongoing Qualification
046	A. Shipsha, P. Dillström, J. Gunnars, O. Cronvall, A. Oinonen, R. Alzbutas, G. Dunduli, P. Calmon	Sweden	Reduction of Risk for Leakage and Rupture in Nuclear Piping – Work for European Guidelines on Planning of In-Service Inspection
046-1	A. Despujols M. Guivarch	France	Maintenance Optimization Process: AP913 Revision for EDF Nuclear Power Plants

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TUESDAY, 24 OCTOBER 2107 (cont'd)

11:00-12:40 **PARALLEL SESSION 6-1:**
Regulatory Approaches to AM and LTO
(Saint Claire 3A)

Chairpersons: F. Henry, Belgium
 R. Vaucher, France

<i>No. of Paper</i> <i>IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member</i> <i>State/Organization</i>	<i>Title of Paper</i>
047	V.S. Rubtsov	Russian Federation	Regulatory Approaches to Equipment's Life Time Management for Russian Nuclear Power Plants
048	K. Mansoor, G. Ali,	Pakistan	PNRA Regulatory Approaches for Ageing Management and Residual Life Assessment for Long-Term Operation of NPPs
049	T.-R. Kim, I.-S. Hwang	Korea, Republic of	Comparison of PSR and License Renewal for LTO Regulatory Process
050	H. Sun	China	Safety Regulation of NPP Operating License Extension In China
12:40-14:00	<i>Lunch / Exhibition and Poster session</i> (Forum 2)		
13:10-13:50	<i>Side Event organized by AMS Corporation</i> (Saint Claire 2)		<i>New Technology for online condition monitoring of cable & other critical equipment in NPPs</i>

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TUESDAY, 24 OCTOBER 2017 (cont'd)**14:00-15:40****PARALLEL SESSION 1-4:
Approaches to Plant Life Management
(Saint Claire 2)**Chairpersons: A. Zander, Germany
S. Vidard, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
051	T. Ishikawa Y. Minami, H. Takai,	Japan	Activities for Long Term Operation – Special Inspection and Technical Evaluation of Ageing Degradation
052	S. Vidard, N. Jardin, A.-M. Donore	France	EDF 3-Loop RPV Life Management Beyond 40 years of Operation
053	H. Huang	China	Methodology and Practice on Safety Evaluation for Application of Nuclear Power Plant Operating License Extension in China
054	J. Fröjd	Sweden	Asset Management at Nuclear Power Plants - with International Standards and Principles

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TUESDAY, 24 OCTOBER 2017 (cont'd)

14:00 -15:40 **PARALLEL SESSION 3-4:**
Ageing Management and Preparation for
LTO
(Forum 3)

Chairpersons: H. Seki, Japan
N. Rupa, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
055	K.J. Leonard G.R. Odette, P. Wells, N. Almirall, T. Yamamoto, R.K. Nanstad, M.A. Sokolov, X. Chen, J.P. Robertson	USA	Embrittlement of Reactor Pressure Vessel Steels under Extended Service Conditions: The Status and Implications of the UCSB ATR-2 Experiment
056	M. Kolluri, H. Nolles, F.J. Frith, Z. Szaraz, O. Martin, P. Hähner, V. Petrosyan, A. Petrosyan, G. Sevikyan	Netherlands	Master Curve Testing of Long Term Thermally Aged VVER-440 RPV Surveillance Specimens and Correlation with Charpy Impact test Results
057	E.E. Antonaccio M.F. Zeolla J.R. Zorrilla	Argentina	Development and Evaluation of Applicability of a Hot-Spot Detection Technique based in Impedance Spectroscopy for Cables used in Argentinean Nuclear Power Plants
058	A.L Medina-Almazán, N. Lopez-García, M. Marín-Almazo, G. Galicia-Aguilar, M. Gris-Cruz	Mexico	Evaluation at 290°C and 8 MPa of the Corrosion Resistance of Preoxidized 304L SS with Hydrothermal Ceramic Nanodeposits.

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TUESDAY, 24 OCTOBER 2017(cont'd)**14:00-15:40** **PARALLEL SESSION 5-1:**
Human factors and Management Aspects
(Saint Claire 3B)**Chairpersons:** R. Beleznai, Hungary
 M. Suzuki, Japan

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
059	N. Erkan, S. Naoto, O. Koji, I. Tatsuya, J. Suetsugu, K. Masanori	Japan	Human resource Development Activities at the University of Tokyo towards a Proactive Nuclear Regulatory
060	B.P. Hallbert, R. Boring, J. Joe, J. Oxstrand, K. Thomas	USA	Lessons Learned from Applying Human Factors Principles to Nuclear Power Plant Control Room Modernization
061	H. Tanaka	Japan	Knowledge Transfer for Long Term Operation
062	R. Beleznai, G. Dobos, S. Szávai	Hungary	Training Platform for NPPs using Virtual and Augmented Reality Technology

TUESDAY, 24 OCTOBER 2017 (cont'd)

14:00-15:40 **PARALLEL SESSION 6-2:**
Regulatory Approaches to AM and LTO
(Saint Claire 3A)

Chairpersons: F. Henry, Belgium
 R. Vaucher, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
063	S. Laxman, B. Carroll, J. Jin	Canada	Regulatory Perspectives on the Condition Assessment and Monitoring of Safety Significant Major Reactor Components for Long Term Operation
064	M. Nakano	Japan	Review for Operation Period Extension of NPPs in Japan
065	F. Henry	Belgium	Preparation of Belgian NPPs for Safe LTO : Safety Authority Review and Role of IAEA SALTO Peer Review Service
066	R. Vaucher	France	Regulatory Approach for Managing Ageing and Obsolescence in the Context of LTO in France

15:40-16:00 *Coffee Break (Forum 2)*

TUESDAY, 24 OCTOBER 2017 (cont'd)**16:00-17:40****PARALLEL SESSION 1-5:
Approaches to Plant Life Management
(Saint Claire 2)****Chairpersons:**A. Zander, Germany
S. Vidard, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
067	R. Isobe, H. Yuya H. Wada	Japan	A Research Activity using Decommissioning HAMAOKA Unit-1
068	A. Larsson, W. Inge	Sweden	International Good Practice in Preparing for Decommissioning and Performing Characterisation
069	E.S. Khramova A.V. Shutikov, A.A. Dementiev, Y.P. Teterin, V.N. Lovchev, A.F. Gromov, A.E. Korneyev, A.G. Kazantsev, V.A. Sotskov, S.A. Khartchenko, A.V. Bogachev, M.E. Kurdin, R.Y. Zhukov	Russian Federation	Ensuring Integrity of Coolant Pipe Weld Joint Connection to SG PGV-1000 Bend Pipe of 1200 mm Diameter.
070	H. Wada, K. Yokokura, Y. Tanaka, O. Kontani, S. Sawada, I. Maruyama	Japan	Soundness Assessment Method for Concrete Structures Based on Data Obtained from Decommissioning HAMOKA NPP
070-1	S. Poirier J. Whitlock	IAEA	Lessons Learned from Safeguards Implementation for Facilities under Construction

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TUESDAY, 24 OCTOBER 2017 (cont'd)

16:00-17:40 **PARALLEL SESSION 3-5:**
Ageing Management and Preparation
for LTO
(Forum 3)

Chairpersons: H. Seki, Japan
 N. Rupa, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
071	H. Seki, H. Kobayashi	Japan	JANSI Guidelines for Inspection and Evaluation of Reactor Vessel Internals
072	V. Pištorá, M. Žamboch, P. Král, L. Vyskočil	Czech Republic	PTS Re-evaluation Project for Czech NPPs
073	M. Yamamoto, N. Miura	Japan	Status of The Master Curve Fracture Toughness Evaluation Method using Miniature C(T) Specimens.
074	M. Berveiller G. Adjanor F. Latourte J. Vidal A. Gosset	France	Presentation of the SOTERIA Numerical Platform for the Assessment of Ageing Mechanisms in RPV and Internals

TUESDAY, 24 OCTOBER 2017 (cont'd)**16:00-17:40****PARALLEL SESSION 3-6:
Ageing Management and Preparation
for LTO**
(Saint Claire 3B)**Chairpersons:**V. Plaček, Czech Republic
C. Vare, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
075	V. Plaček P. Kos	Czech Republic	Cable Ageing Management Program in Czech Republic
076	J.P. Mathieu B. Masson	France	The VERCORS Project: an Effort to Observe containment Building Ageing and an Opportunity to Develop Numerical Twins
077	T. Lian	EPRI	Effective Aging Management of Baffle-to-Former Bolts to Assure Long-Term Reliability of Reactor Vessel Internals
078	O. Grytsenko V.N. Bukanov, V.L. Diemokhin, V.V. Ilkovych, O.M. Pugach, S.M. Pugach, O.G. Vasylieva	Ukraine	Dosimetry of VVER-1000&440 Reactor Pressure Vessels, Internals, Supporting Elements and Surveillance Specimens as a Part of PLiM at Ukrainian NPPs

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TUESDAY, 24 OCTOBER 2017 (cont'd)**16:00-17:40****PARALLEL SESSION 6-3:
Regulatory Approaches to AM and LTO
(Saint Claire 3A)****Chairpersons:**A. Hiser, Jr., USA
M. Bamber, UK

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
079	A.I. Conde Arano E.L. de Arroyabe C. de la Fuente Pérez M. Albert	Spain	Long Term Operation and Periodic Safety Review Regulations in Spain
080	A. Chepurna O. Shugailo Y. Grebenyuk V. Klochko	Ukraine	Regulatory Approaches to Long Term Operation Activity and Ageing Management of Ukrainian NPP Units
081	H. Dlouhá	Czech Republic	Licensing Process of Dukovany NPP beyond Designed Lifetime
082	A. Hiser	USA	Applying the United States License Renewal Approach to an International Environment

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WEDNESDAY, 25 OCTOBER 2017**9:00-10:30****Plenary Session:
Keynote Speakers(8,9,10)**
(Forum 3)**Chairperson:**

N. Fevrier, France

*No. of Paper
IAEA-CN-246-**Name**Designating Member
State/Organization**Title of Paper*

KS-8

N. Sekimura

Japan

Life Cycle Management, including Lessons Learned from the
Fukushima Daiichi Accident

KS-9

T. Taylor

EPRI

Management of Modifications for Safety Enhancement
(Condition Based Maintenance and On-Line Monitoring)

KS-10

A. Viktorov

Canada

Regulatory Approaches for Long Term Operation and Related
Challenges**10:30-11:00***Coffee break (Forum 2)*

WEDNESDAY, 25 OCTOBER 2017 (cont'd)

11:00-12:40 **PARALLEL SESSION 1-6:**
Approaches to Plant Life Management
(Saint Claire 2)

Chairpersons: O. Martin, EC-JRC
 K. Yoshikawa, Japan

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
083	A. Zander, M. Pernpeintner	Germany	AREVA – Obsolescence Management Concepts and Solutions
084	D. Dorobin V. Tikhonovsky	Russian Federation	Engineering Information Model for Support of Nuclear Power Units Construction, Operation, Maintenance, Radiation Safety and Decommissioning
085	K. Yoshikawa, M. Hayashi, Y. Mabuchi, D. Taniguchi	Japan	UK ABWR -New NPP design for UK
086	O. Martin, O. Johansson, T. Zettervall, J. Fasham, A. Lejon, E. Martin	EC-JRC	Activities and future Trends of the ENIQ Network

WEDNESDAY, 25 OCTOBER 2017 (cont'd)

11:00-12:40 **PARALLEL SESSION 3-7:**
Ageing Management and Preparation
for LTO
(Saint Claire 3B)

Chairpersons: V. Plaček, Czech Republic
 C. Vare, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
087	A. Courtois, F. Coppel, E. Gallitre, F. Taillade	France	Ageing Management of Civil Structures: Some Aspects of EDF's In-Service Inspection Program and Risk Informed Approach
088	I. Cornish-Bowden, F. Mateo B. Gerard	France	Digitalization of the Engineering Programs: Ageing Civil Works and Electric Cables to increase the Safety of NPP
089	S. François, J.-M. Fageon, G. Marque	France	EDF PWR Units Electrical Cables Aging Management
090	A. Oryniak I. Orynyak O. Ishchenko	Ukraine	Numerical Calculation and Experimental Measurements of VVER-1000 Core Baffle Geometrical Distortion due to Irradiation Swelling

WEDNESDAY, 25 OCTOBER 2017(cont'd)**11:00-12:40****PARALLEL SESSION 3-8:
Ageing Management and Preparation
for LTO**
(Forum 3)**Chairpersons**S. Bernhoft, EPRI
J.P. Massoud, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
091	S.C. Yoo, J.H. Kim, K.J. Choi, J.-S. Kim, B.-H. Choi, Y.-J. Kim, J.-S. Kim	Korea, Republic of	PWSSC Behavior of Alloy 600 under Long-term Thermal Aging and Triaxial Stress
092	O. Nevander J. Sievers	OECD-NEA	Recent WGIAGE Activities and Results
093	S. Bernhoft	EPRI	Main Challenges in Research for LTO – Cooperation Between EPRI and IAEA on the IGALL Programme
094	J.P. Massoud L. Grisy P. Le Delliou, P. Todeschini, S. Saillet	France	EDF Ageing Management: R&D Materials Programmes

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WEDNESDAY, 25 OCTOBER 2017 (cont'd)

11:00-12:40 **PARALLEL SESSION 6-4:**
Regulatory Approaches to AM and
LTO
(Saint Claire 3A)

Chairpersons A. Hiser, USA
M. Bamber, UK

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
095	C.E. Moyer M. Sircar J. Philip J.E. Pires D.D. Murdock T. Koshy A.B. Hull Presented by A. Hiser	USA	Regulatory Research on the Aging Management of Structures, Systems and Components in Nuclear Power Plants Supporting License Renewal
096	S. Xu C. Cole	Canada	Screening of Structures, Systems and Components for Aging Management and Reliability Programs for Nuclear Power Plants in Canada, a Regulatory Perspective
097	A. Panchenko O. Shugailo	Ukraine	Licensing Activities for Long-Term Operation and Ageing Management in Ukraine (Regulatory Experience And Lessons Learnt)
099	M. Bamber L. Poulter	UK	Regulation of Graphite Core Ageing and Degradation in the UK's Advanced Gas-Cooled Reactor Fleet
12:40 -15:40	<i>Lunch / Exhibition and Poster Session (Forum 2)</i>		
13:00-13:50	<i>Side Event organized by CEA (Saint Claire 2)</i>		<i>Status of CEA Research and Development activities using Material Test Reactors in support of LTO, perspectives given by the future JHR working as an International User Facility</i>
13:00-14:30	<i>Side Event organized by IFRAM (Saint Claire 3A)</i>		<i>Comparison of Activities of Key LTO Forums and Reorienting IFRAM's Mission and Plan</i>

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WEDNESDAY, 25 OCTOBER 2017 (cont'd)

14:00-15:40 **PARALLEL SESSION 3-9:
Ageing Management and Preparation
for LTO**
(Forum 3)

Chairpersons S. Bernhoft, EPRI
J.P. Massoud, France

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
100	J.C. Wagner, D. Williams, R.A. Reister, M. Farmer, B. Hallbert , K.J. Leonard, C. Smith	USA	Current and Future Research and Development Directions in the Light Water Reactor Sustainability (LWRS) Program
101	J. Moore	Canada	PHWR Fuel Channel Life Management Activities by the CANDU Owners Group
102	E. Deri A. Adobes F. David T. Prusek V. Lhuillier G. Leopold J. Vasseur	Italy/France	PWR Steam Generators: Multi-Field R&D for Long Term Operation
103	I. Maruyama , M. Takizawa, O. Sato, J. Etoh, O. Kontani, S. Sawada, S. Ishikawa	Japan	Post-Japanese NRA Research Project on Soundness Evaluation Criteria for Radiation-Induced Concrete Degradation
104	S. Szavai Z. Bezi J. Dudra P. Rozsahegyi	Hungary	Material Characterization and Numerical Simulation of a Dissimilar Metal Weld to Support Phased Array Ultrasonic Inspection
15:40-16:00	<i>Coffee break (Forum 2)</i>		

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WEDNESDAY, 25 OCTOBER 2017 (cont'd)

16:00-17:40

PANEL DISCUSSION:

Plant Life Management – Approaches,
Economics and Safety Enhancements
(Saint Claire 3A & 3B)

Chairperson: J. Hanson, USA

Panel Members: U. Wildner Germany
J.P. Perrin France
Y. Dou China
M.B. Bakirov Russian Federation
K-S. Kang IAEA

16:00-17:40

PANEL DISCUSSION:

Ageing Management and Preparation
for Long Term Operation
(Forum 3)

Chairperson: G.A. Wilson, USA

Panel Members: S. Ratkai Hungary
S. Bernhoft EPRI
F. Henry Belgium
R. Krivanek IAEA

THURSDAY, 26 OCTOBER 2017

09:00-10:30

PANEL DISCUSSION:

Challenges and Needs for PLIM/LTO
(Forum 3)

Chairperson: G. Young, USA

Panel Members: G. Rzentkowski IAEA
O. Martin EC-JRC
I.S. Hwang Korea, Republic of
H.M. Hashemian USA
G. Pironet Belgium

10:30-11:00

Coffee Break (Forum 2)

11:00- 12:40

Closing Session

(Forum 3)

Chairperson: M. Maschi, France

Session Reports and Recommendations

Session 1-1~1-6: O. Martin, EC-JRC

Session 2-1~2-2: J. Hansen, USA

Session 3-1~3-4: S. Ratkai, Hungary

Session 3-5~3-9: V. Plaček, Czech Republic

Session 4-1~4-3: K.J. Leonard, USA

Session 5-1: M. Suzuki, Japan

Session 6-1~6-4: A. Hiser, USA

Closing of the Conference

M. Maschi, France

G. Rzentkowski, IAEA

POSTERS

Posters will be on display for the duration of the Conference in Forum 2

POSTER SESSION 1: Approaches to Plant Life Management

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1P01	D. Tian J. Deng G. Vinod T. Santosh C. Gorse G. Colantuono	UK	Identification of Loss of Coolant Accidents of Nuclear Power Plants using Artificial Neural Networks
1P02	S. Poirier B. Boyer J. Whitlock	IAEA	Safeguards Considerations in the Design of Nuclear Facilities
1P03	K. Murakami	Japan	Studies on Ageing Mechanism of Structural Materials using Ion Accelerator Facilities
1P04	Z.Zou C.Zhang	China	LCM Planning for AP1000 Passive SSCs in Haiyang NPP
1P05	H. Rong J. Li Y. Wang	China	Strategy for Spent Fuel Storage (On-Site) of Nuclear Power Plant In China
1P06	M. Thangamani N. Mainmaran G. Shanmugam A. Babu K.V.Suresh kumar	India	Life Extension & Plant Life Management of Fast Breeder Reactor

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POSTER SESSION 2:**Ageing management and Preparation for LTO**

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1P08	K. Abdallah	Egypt	Inspection Methodology Development for Reactor Vessel Bottom
1P09	D. Lucan	Romania	Research Activities on INR Nuclear Materials and Corrosion Department in the Field of Ageing Management and Long Term Operation (LTO)
1P10	K. Proskuryakov M.Zapozhzhets V.Mukhin A.Fedorov	Russian Federation	Using an Interdisciplinary Approach to Determine the Sources of Standing Waves in the Primary Circuits of a Nuclear Power Plant with a Water Coolant
1P11	K. Proskuryakov	Russian Federation	Substantiation of Need of Research BWR as a Helmholtz Resonator
1P12	J. Eto I. Maruyama M. Takizawa O. Sato O. Kontani S. Sawada S. Ishikawa	Japan	Summary of Japanese NRA Research Project on Soundness Evaluation Procedures for Radiation Induced Concrete Degradation
1P14	Y. Hashimoto T. Kobayashi K. Nishida A. Nomoto	Japan	Current Status of the Revision of the Embrittlement Trend Curve in Japan
1P15	A. Nomoto Y. Hashimoto T. Koboayashi K. Nishida M. Yamamoto	Japan	Evaluation of the Neutron Irradiation Embrittlement of RPV Steels: Development of Embrittlement Trend Curve and Investigation of Through-wall Attenuation
1P16	M. Zarazovskii I. Oryniak	Ukraine	A Methodological Features Related with the Prediction of Embrittlement of WWER RPVs
1P18	S. Sawada O. Kontani H. Wada K. Yokokura Y. Tanaka I. Maruyama	Japan	Physical Properties of Concrete Obtained from the Reactor Building of Decommissioning Hamaoka NPP
1P19	I. Tutnov V. Tsarev G. Sarychev	Russian Federation	Application of SALTO Methods for Planning Maintenance of PWR-1000 Automated Control System

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**POSTER SESSION 3:
Configuration and Modification Management for Safety
Enhancement**

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1P20	G. Colantuono D. Tian D. Jiamei G. Vinod T. v.Santosh C. Gorse	UK	Principal Components/Correlation-Based Decision Algorithm for fault Detection
1P21	A. Hossain A.Z.M. Salahuddin	Bangladesh	An Intelligent Approach for Thermal-Hydraulic Experimental Studies on Safety and Efficiency of NPP
1P22	T. Kinoshita I. Seki	Japan	Special Inspection for License Renewal of Nuclear Power Plants -Introduction of NDE Techniques-
1P26	O. Kontani Y. Umeki H. Wada K. Takiguchi I. Maruyama S. Sawada	Japan	Guidelines for Maintenance and Management of Structures in Nuclear Facilities in Japan

**POSTER SESSION 4:
Human Factor and Management Aspects**

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1P27	M. Suzuki	Japan	Human Resources Development Focusing on the Nuclear System Safety in Regional Cooperation with NPP Location Area

**POSTER SESSION 5:
Regulatory Approaches to AM and LTO**

<i>No. of Paper IAEA-CN-246-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1P28	M. Hiser P. Purtscher P. Ramuhalli A. Hulla R. Tregoning C. Moyer Presented by A. Hiser	USA	Harvesting of Aged Materials from Operating and Decommissioning Nuclear Power Plants

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RELATED IAEA PUBLICATIONS

Safety Standard Series(SSG-)

48	Ageing Management and Development of a Programme for Long Term Operation of Nuclear Power Plants	2017
30	Safety Classification of Structures, Systems and Components in Nuclear Power Plants	2014
25	Periodic Safety Review for Nuclear Power Plants	2013

Safety Reports Series (NS-SRS-)

82	Ageing Management for Nuclear Power Plants: International Generic Ageing Lessons Learned	2015
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Nuclear Energy Series(NP-T-)

3.21	Procurement Engineering and Supply Chain Guidelines in Support of Operation and Maintenance of Nuclear Facilities	2016
3.5	Ageing Management of Concrete Structures in Nuclear Power Plants	2016
3.17	Application of Field Programmable Gate Arrays in instrumentation and Control Systems of Nuclear Power Plant	2016
1.13	Technical Challenges in the Application and Licensing of Digital Instrumentation and Control Systems in NPPs	2015
3.18	Plant Life Management Models for Long Term Operation of Nuclear Power Plants	2015
3.6	Assessing and Managing Cable Ageing in Nuclear Power Plants	2012
3.16	Accident Monitoring Systems for Nuclear Power Plants	2012
3.12	Core Knowledge of Instrumentation and Control Systems in Nuclear Power Plants	2011
1.4	Stakeholder Involvement Throughout the Life Cycle of Nuclear Facilities	2011

TECDOCS

1825	Benchmark Analysis for Condition Monitoring Test Techniques of Aged Low Voltage Cables in Nuclear Power Plants	2017
1806	Nuclear Power Plant Outage Optimization Strategy	2016
1662/ Rev.1	Preparing and Conducting Review Missions of Instrumentation and Control Systems in Nuclear Power Plants	2016
	Operating Experience with Nuclear Power Stations in Member States in 2015	2016
1736	Approaches to Ageing Management for Nuclear Power Plants : International Generic Ageing Lessons Learned (IGALL) Final Report	2011

Service Series

26	SALTO Peer Review Guidelines : for Peer Review of Safety Aspects of Long Term Operation of Nuclear Power Plants	2014
24	CORR Guidelines: Preparing and Conducting Review Missions of Construction Project Readiness for Nuclear Power Plants	2013

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International Conference on Physical Protection of Nuclear
Material and Nuclear Facilities
13-17 November 2017, Vienna, Austria

International Conference on Radiation Protection in Medicine:
Achieving Change in Practice
11-15 December 2017, Vienna, Austria

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2018

Third International Conference on Human Resource
Development for Nuclear Power Programmes: Meeting
Challenges to Ensure the Future Nuclear Workforce Capability
28-31 May 2018, Gyeongju, Republic of Korea

International Symposium on Uranium Raw Material for Nuclear
Fuel Cycle: Exploration, Mining, Production, Supply and
Demand, Economics and Environmental Issues (URAM-2018)
25-29 June 2018, Vienna, Austria

International Symposium on Plant Mutation Breeding and
Biotechnology
27-31 August 2018, Vienna, Austria

International Symposium on Communicating Nuclear and
Radiological Emergencies to the Public
1-5 October 2018 Vienna, Austria

International Conference on Challenges Faced by Technical
and Scientific Support Organizations (TSOs) in Enhancing
Nuclear Safety and Security
15-19 October 2018, Brussels, Belgium

27th IAEA Fusion Energy Conference (FEC-2018)
22-27 October 2018, Ahmedabad, India

Symposium on International Safeguards
5-9 November 2018, Vienna, Austria

Ministerial Conference on Nuclear Science and Technology:
Addressing Current and Emerging Development Challenges
28-30 November 2018, Vienna, Austria

International Conference on Global Radioactive Material
Security Governance: Prevention and detection in action
3-7 December 2018, Vienna, Austria

International Symposium on Understanding the Double Burden
of Malnutrition for Effective Interventions
10-13 December 2018, Vienna, Austria



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