

Programme Committee

Chairperson: G. G. Young	Entergy, USA
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R. Gerard	Tractebel, Belgium
R. Dam	Candu Energy, Canada
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P. Wullaert	EDF, France
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Local Committee

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C. Carpenter	US NRC, USA
P. Oberson	US NRC, USA
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R. Reister	US DOE, USA
J. Keys	NEI, USA
K. McCarthy	INL, USA

IAEA Secretariat:

Scientific Secretaries:	K.S. Kang M. Lipar
Conference Coordination:	M. Neuhold A. Yesli
Administrative Support:	M. Kim Park

Location of the Conference:

Hilton Salt Lake City Center, 255 South West Temple Street
Salt Lake City, Utah 8410,USA

Working Language: English

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

Time	Sunday 13 May 2012	Monday 14 May 2012	Tuesday 15 May 2012	Wednesday 16 May 2012	Thursday 17 May 2012	Friday 18 May 2012
08:30-10:30		09:00, Opening Plenary, Keynote Speakers (1, 2) IAEA Contributions	Keynote speakers (3, 4, 5) Plenary	Keynote speakers (6, 7, 8) Plenary	Keynote speakers (9, 10, 11) Plenary	
11:00-12:30		1-1 2-1 3-1 4-1	Panel Discussion(1)- Challenges and Needs for PLIM/LTO Plenary	Panel Discussion(2)- Long term operation approaches reflecting F-1 lessons learned and from Stress test review for LTO Plenary	Report Session and recommendations Plenary	Technical Tour
12:30-14:00		Continuing Technical Discussion/ Working Lunch and Poster Session / Exhibition	Continuing Technical Discussion/ Working Lunch and Poster Session / Exhibition	Technical Discussion/ Working Lunch and Poster Session / Exhibition Plenary	13:00 Closing session Plenary	1. Approaches to PLIM 2. Economics of PLIM 3. AM & operational programme 4. SSC design modification 5. Regulatory issue
14:00-15:30	Registration	1-2 2-2 3-2 DOE 1-4 2-4 4-2 IFRAM	1-4 2-4 4-2 IFRAM	5-1 3-5 3-6 4-4		
16:00-17:30		1-3 2-3 3-3 NULIFE NDE/ISI 3-4 4-3	Main	Preparation of Summary Session		

TIMETABLE

Sunday, 13 May 2012

14:00-18:00 Registration and distribution of conference material
Hilton Salt Lake City Center - second level

17:30-19:30 Welcome Reception hosted by IAEA and US Host Committee
Grand Ballroom C

Monday, 14 May 2012

08:00 Registration and distribution of conference material

09:00-10:30 Opening Plenary
(Grand Ballroom)

10:30-11:00 Technical Discussions

11:00-12:30 Parallel Session: 1-1
(Grand Ballroom)

“Approaches to Plant Life Management for LTO (1)”

Parallel Session: 2-1
“Economics of Plant Life Management”
(Alpine West)

Parallel Session: 3-1
“Ageing Management and Operational Programme (1)”
(Seminar Theatre Room)

Parallel Session: 4-1
“SSC Design Modification- NDE/ISI”
(Alpine East)

12:30-14:00 Continuing Technical Discussion/ Working Lunch and Poster Session / Exhibition

14:00-15:30	Parallel Session: 1-2 "Approaches to Plant Life Management for LTO (2)"	(Grand Ballroom)
	Parallel Session: 2-2 "Reactor Pressure Vessel and RPV internal Integrity (1)"	(Alpine West)
	Parallel Session: 3-2 "Ageing management and Operational Programme (2)"	(Seminar Theatre Room)
	Parallel Session: "US DOE R&D Programme"	(Alpine East)
15:30-16:00	Technical Discussions	
16:00-17:30	Parallel Session: 1-3 "Approaches to Plant Life Management for LTO (3)"	(Grand Ballroom)
	Parallel Session: 2-3 "Ageing Management and Operational Programme (3)- Fatigue"	(Alpine West)
	Parallel Session: 3-3 "Ageing Management and Operational Programme(4)"	(Seminar Theatre Room)
	Parallel Session: "NULIFE Programme"	(Alpine East)
Tuesday, 15 May 2012		
08:30-10:30	Plenary Session Keynote address	(Grand Ballroom)
10:30-11:00	Technical Discussions	
11:00-12:30	Panel Discussion (1): "Challenges and Needs for PLiM/LTO"	(Grand Ballroom)
12:30-14:00	Continuing Technical Discussion/ Working Lunch and Poster Session / Exhibition	

14:00-15:30	Parallel Session: 1-4 "Plant Life Limiting Issues"	(Grand Ballroom)
	Parallel Session: 2-4 "RPV and Material Degradation Issues"	(Alpine West)
	Parallel Session: 4-2 "I&C Modernization and Replacement"	(Seminar Theatre Room)
	Parallel Session: "IFRAM Programme"	(Alpine East)
15:30-16:00	Technical Discussions	
16:00-17:30	Parallel Session: "NDE/ISI"	(Granite Conference Center -1 st floor)
	Parallel Session: 3-4 "RPV and Structural Integrity (2)"	(Alpine West)
	Parallel Session: 4-3 "Cable Ageing Management"	(Seminar Theatre Room)
	Parallel Session: "Maintenance Issues"	(Alpine East)
19:00-21:30	Conference Banquet for all participants	(Grand Ballroom)
Wednesday, 16 May 2012		
08:30-10:30	Plenary Session Keynote address	(Grand Ballroom)
10:30-11:00	Technical Discussions	
11:00-12:30	Panel Discussion (2): "LTO Approaches Reflecting Lessons Learned From Fukushima Accidents and Stress Test Results"	(Grand Ballroom)
12:30-14:30	Continuing Technical Discussion/ Working Lunch and Poster Session / Exhibition	

14:30-16:00	Parallel Session: 5-1 "Regulatory Issues Concerned with Plant Life Management"	(Grand Ballroom)
	Parallel Session: 3-5 "RPV/ RVI Integrity"	(Alpine West)
	Parallel Session: 3-6 "Non-metallic Material Ageing Management"	(Seminar Theatre Room)
	Parallel Session: 4-4 "I&C Modernization"	(Alpine East)
16:00-17:30	Preparation of Summary Session (Session Chairs)	(Alpine East)

Thursday, 17 May 2012

08:30-10:30	Plenary Session	(Grand Ballroom)
	Keynote address	
10:30-11:00	Technical Discussions	
11:00-12:30	Report of the Session Chairpersons	(Grand Ballroom)
13:00	Closing Session	

**Posters will be on display for the duration of the
Conference** (Grand Ballroom)

Exhibitions

The organizers invite all participants to visit the Conference Exhibition in the exhibition area on 2nd floor of Hilton Hotel. The exhibition is open during conference working hours.

Opening of the exhibition: Monday 14 May at 10:30
Closing of the exhibition: Wednesday 16 May at 17:00

MONDAY, 14 MAY 2012**08:00 Registration****09:00-10:00 Opening Plenary** (Grand Ballroom)**Opening Addresses**

A. Bychkov (Deputy DG, IAEA)
G. G. Young (Conference Chairman)
G. Apostolakis (Commissioner, US NRC)
J. Grossenbacher (Director, INL, USA)
C. L. "Butch" Otter (Governor of Idaho, USA)

10:00-10:30 K.S. Kang
M. Lipar (IAEA)

"IAEA Activities on Plant Life Management
for Long Term Operations"

10:30-11:00 Technical Discussions

11:00-12:30 PARALLEL SESSION 1-1:
"Approaches to Plant Life Management for
LTO (1)"
(Grand Ballroom)

Chairperson: R. Tilley, USA

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
001	G. G. Young	USA	The Role of License Renewal in PLiM for U.S. NPPs
002	A. Keramsi	France	Consequences of the Fukushima Accident for the Life Extension Program of French NPPs
003	R. Krivanek M. Sabata	IAEA Czech	Preparation of Long Term Operation in Dukovany NPP, Czech Republic
004	S. Ratkai T. Katona	Hungary	Experiences Gained During the Development of the License Renewal Application for Unit 1 of PAKS NPP

12:30-14:00 Working Lunch/ Poster Session / Exhibition

MONDAY, 14 MAY 2012 (continued)

11:00-12:30 PARALLEL SESSION 2-1:
 "Economic of Plant Life Management"
 (Alpine West)

Chairperson: J. Joosten, USA

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
005	A. Lokhov R. Cameron	OECD-NEA	OECD/NEA Study on the Economics of Long Term Operation of NPPs
006	P. Paulson G. Coles S. Shoemaker	USA	Making Risk Models Operational for Situational Awareness and Decision Support
007	J. Lonchamp K. Fessart	France	Investments Portfolio Optimal Planning, a Tool for Plant Life Management
008	J. Gaertner	USA	Long Term Operation R&D to Investigate the Technical Basis for Life Extension and License Renewal

12:30-14:00 Working Lunch/ Poster Session / Exhibition

11:00-12:30 PARALLEL SESSION 3-1:
 "Ageing Management and Operational
 Programme (1)"
 (Seminar Theatre Room)

Chairperson: O. Martin, EC-JRC

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
009	A. Huerta A. Blahoianu C. Faigy K. Gott	OECD-NEA Canada France Sweden	OECD/NEA Ageing Management Activities to Support Long Term Operations
010	H. Tanaka M. Iwasaki S. Miyama	Japan	Technical Evaluation on Ageing Management in Nuclear Power in Japan - Outline of 40th Year Technical Evaluation on Ageing Management
011	Y. Dou	China	Safety Aspects of Ageing Management Throughout Full Life Cycle of NPPs
012	M. Brezina L. Kupca	Slovakia	Thermal Ageing Monitoring of Primary Circuit Components At NPPs in Slovak Republic

12:30-14:00 Working Lunch/ Poster Session / Exhibition

MONDAY, 14 MAY 2012 (continued)			
11:00-12:30	PARALLEL SESSION 4-1: "SSC Design Modification- NDE/ISI" (Alpine East)		
Chairperson:	L. Bond, USA		
<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
013	M. Yoda I. Chida K. Sudo M. Tamura	Japan	Laser-based Maintenance Technologies for Nuclear Reactors
014	P. Trampus S. Rátkai	Hungary	Introducing Advanced ISI Requirements at PAKS NPP to Support the LTO
015	S. Takagi N. Sekimura R. Saeki	Japan	Improvement of the Soundness Assessment Technique for Reactor Internals with Cracks based on Inspection Data
016	B.P. Hohmann T.C. Esselman T. Schmidt	USA	Digital Image Correlation (DIC): An Advanced Non-destructive (NDT) Method for Life Extension of Nuclear Power Plants
12:30-14:00	Working Lunch/ Poster Session / Exhibition		
14:00-15:30	PARALLEL SESSION 1-2: "Approaches to Plant Life Management for LTO (2)" (Grand Ballroom)		
Chairperson:	A. Huerta, OECD-NEA		
<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
017	V. Popov	Bulgaria	Current Status of Preparatory Activities for LTO of Kozloduy NPP Units 5&6
018	N. Tagashira A. Kawano	Japan	Outline of Fukushima Daiichi Nuclear Power Plant Accident and Ageing Management
019	M.H. Boo J. G. Lee J. S. Park	Republic of Korea	Long Term Asset Management Strategy for Refurbishment and Replacement of Nuclear Power Plant in Korea
020	J. T. Busby	USA	Expanded Proactive Materials Degradation Assessment: Identifying Key Materials Issues for Life Extension
15:30-16:00	Technical Discussions		
MONDAY, 14 MAY 2012 (continued)			

14:00-15:30	PARALLEL SESSION 2-2: "Reactor Pressure Vessel and RPV Internal Integrity (1)" (Alpine West)		
Chairperson:	R. Gerard, Belgium		
<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
021	R. Gerard D. Bertolis S. Vissers	Belgium	Ageing Management of the Reactor Internals in Belgian Nuclear Units in View of Long Term Operation
022	J. P. Fontes	France	Reactor Pressure Vessel Integrity: EDF R&D Efforts to Support Life Management
023	A. Kanno F. Yoshikubo M. Tanaka R. Morinaka K. Hasegawa H. Hatou	Japan	Development and Field Application Experience of the Reactor Internal Preventive Maintenance Technology
024	C.R.A. Juarez M.G. Cruz A. L. Medina Almazan	Mexico	Ageing Management Review of the Reactor Pressure Vessels in Laguna Verde NPP
15:30-16:00	Technical Discussions		
14:00-15:30	PARALLEL SESSION 3-2: "Ageing Management and Operational Programme (2)" (Seminar Theatre Room)		
Chairperson:	Y. Dou, China		
<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
025	B. Braatz I. Prokofiev S.E. Cumblidge S.R. Doctor	USA	Primary Water Stress Corrosion Cracks in Nickel Alloy Dissimilar Metal Welds: Detection and Sizing Using Established and Emerging Non-destructive Examination Techniques
026	A. Drexler F. Roumiguere J. Fandrich U. Ramminger	Germany	Evaluation of the Steam-Water Cycle Condition for Sustainable Water Chemistry Operation

027	G. Cenerino M. Dubreuil E. Raimond F. Pichereau	France	Radiological Objectives and Severe Accident Mitigation Strategy for the Generation II PWRs in France in the Framework of PLE
028	J.M. Ranalli M.H. Marchena M. Sabransky	Argentina	Integrated Ageing Management for Atucha NPP
MONDAY, 14 MAY 2012 (continued)			
14:00 -15:30	PANEL DISCUSSION: "US DOE R&D Programme" (Alpine East)		
Chairperson:	R. Reister, USA		
<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
029	J.T. Busby	USA	Materials Ageing and Degradation Research under the DOE LWRS Program to Support Life Extension Decisions
030	K.A. McCarthy D. L. Williams R. Reister	USA	Overview of the US Department of Energy Light Water Reactor Sustainability Program
031	N. Lybeck M. Tawfik J. Coble L. J. Bond	USA	An Assessment of Integrated Health Management Frameworks
032	C.J. Campbell C.D. Sexton H.M. Hashemian J.B. McConkey	USA	Results of Recent DOE Research on Development of Cable Condition Monitoring and Ageing Management Technologies
15:30-16:00	Technical Discussions		

MONDAY, 14 MAY 2012 (continued)

16:00-17:30 **PARALLEL SESSION 1-3 :**
 “Approaches to Plant Life Management for
 LTO (3)”
 (Grand Ballroom)

Chairperson: **R. Krivanek, IAEA**

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
033	J. Borak L. Kupca	Slovakia	Long Term Operation of Bohunice Nuclear Power Plant
034	T. C. Esselman S. Cherukuri C. Mengers	USA	Integrated Life Cycle Management: A Strategy for Plants to Extend Operation Lifetimes Safely with High Operational Reliability
035	K. Onizawa Y. Nishiyama J. Katsuyama	Japan	JAEA Research Program on the Assessment of Structural Integrity of Reactor Pressure Vessels for Safe Long-term Operation
036	F.Ternon-Morin C.Degrave	France	Long Term Operation Program for EDF Nuclear Power Plants
037	R. Dam R. Gold L. McCrea	Canada	Candu Energy's Ageing and Obsolescence Program & It's Application to Operating Facilities and New Plant Design

16:00-17:30 **PARALLEL SESSION 2-3 :**
 “Ageing Management and Operational
 Programme (3) – Fatigue”
 (Alpine West)

Chairperson: **K. Evon, USA**

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
038	N. Kasahara	Japan	Development of Thermal Load and Fatigue Evaluation Methods Based on their Mechanism
039	H. Rothenhöfer G. König	Germany	Keep Fatigue Usage Low for LTO
040	K. Evon	USA	FatiguePro™ 4 Advanced Approach for Fatigue Monitoring
041	J. S. Park K.S. Yoon T.S. Choi T.S. Kim S.H. Kim	Republic of Korea	Approach to Fatigue Life Management for Primary Components in APR1400 Nuclear Power Plants Considering LWR Environments

MONDAY, 14 MAY 2012 (continued)

16:00-17:30 **PARALLEL SESSION 3-3:**
 “Ageing Management and Operational
 Programme (4)”
 (Seminar Theatre Room)

Chairperson: C. E. Carpenter, USA

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
042	J. C. Juvin N. Osouf	France	Safety Requirements for long term operation of NPPs in France
043	M. Kanno H.Sakamoto N.Sekimura	Japan	Road Map for Ageing Management and Safe Long Term Operation of Japanese Light Water Reactors
044	T. Allen J. I. Cole J. H. Jackson S. Teyseyre	USA	LWR Plant Life Support Activities at the Advanced Test Reactor National Scientific User Facility
045	A. Zander S. Ertl	Germany	The NPP Isar Comprehensive Ageing Management Program
046	A.T. Quang R. Chares	Belgium	Ageing Nuclear Plants Inspection, Maintenance and Performance Monitoring Eased by Data Validation and Reconciliation (DVR) Approach

16:00-17:30	PARALLEL SESSION: "NULIFE Programme" (Alpine East)		
Chairperson:	R. Rintamaa, Finland		
<i>No. of Paper</i> <i>IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member</i> <i>State/Organization</i>	<i>Title of Paper</i>
047	J. May E.Altstadt A.Ballesteros M.Brumovsky R.Chaouadi F.Gillemot C.Grovenor I.O'Donnell K.Wilford S.Ortner I.Marcelles M.Serrano E.Meslin B.Radiguët P.Todeschini T.Planman J.Rouden	Germany EC-JRC Czech Republic Belgium Hungary United Kingdom Spain France Finland Sweden	FP7 Project Longlife: Treatment of Long-Term Irradiation Embrittlement Effects in RPV Safety Assessment
048	D. Moinereau G. Philippe C. Stéphane M. Stéphane	France	An Overview of NESC VII Project: A European Project for Application of WPS in RPV Assessment Including Biaxial Loading
049	M. Brumovsky	Czech Republic	IAEA NULIFE-VERLIFE - Procedure for Integrity and Lifetime Assessment of Components and Piping in WWER NPPs During Operation - A Tool for LTO
050	F. Obermeier T.Nicak E.Keima T.Fekete M.Scibetta T.Planman C.C-F. Carcía I. Sattari-Far	Germany Hungary Belgium Finland Spain Sweden	NULIFE-Project Cabinet RPV Assessment Under Consideration of Constraint and Warm Pre-Stress Effects

TUESDAY, 15 MAY 2012**08:30-10:30 PLENARY SESSION:**
(Grand Ballroom)**Chairperson: G. G. Young, USA****Keynote speakers**

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
01KS	B. Barron	USA	Proactive Plant Life Management - One of USA fleet's Key Success Factors
02KS	N. Sekimura	Japan	Securing the Stability of Ageing NPP considering Fukushima Daichi Lessons Learning - Improving Inspection System and Ageing Management and Planning
03KS	M. Noel	EC-JRC	The EU Stress Test: a comprehensive risk and safety assessment of European NPPs

10:30-11:00 Technical Discussions**11:00-12:30 PANEL DISCUSSION (1) :**
"Challenges and Needs for PLiM/LTO"
(Grand Ballroom)**Chairperson B. Holian, USA****Panel Members**
T. Shoji, Japan
A. Blahoianu, Canada
F. Hedin, France
J. M. Figueras, Spain
J. Gaertner, USA**12:30-14:00** Working Lunch/ Poster Session / Exhibition

TUESDAY, 15 MAY 2012 (continued)

14:00-15:30 **PARALLEL SESSION 1-4:**
"Plant Life Limiting Issues"
(Grand Ballroom)

Chairperson: **A. Zander, Germany**

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
051	J. Gaertner T.C. Esselman	USA	Identifying and Assessing Life Limiting Issues
052	A. Zander H. Nopper	Germany	A Software Tool for Ageing and Plant Life Management
053	C. Stiepani L.S. Belda C. Topf	Germany	Sustainable Dose Rate Reduction in Operating Light Water Reactors - AREVA's Concept
054	F. J. Blom A.E. de Jong J. Leilich	Netherlands Germany	LTO License Application Project NPP Borssele
15:30-16:00	Technical Discussions		

TUESDAY, 15 MAY 2012 (continued)

14:00 -15:30 **PARALLEL SESSION 2-4:**
"RPV and Material Degradation Issues"
(Alpine West)

Chairperson: **K. Onizawa, Japan**

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
055	H.Churier- Bossennec	France	French Reactor Vessel Life Management
056	W.L. Server R. K. Nanstad G. R. Odette	USA	Use of RPV Surveillance Materials for Extended Life Evaluations Using Power and Test Reactor Irradiation
057	R. Ahlstrand M. Bieth B. Margolin E. Yurchenko V. Kostylev I. Akbashev V. Piminov Y. Nikolaev V. Koshkin L. Chyrko V. Bukhanov V. Kharshenko O. Comsa	EC-JRC Russia Federation Ukraine EC-DCO	TAREG 2.01/00 Project, "Validation of Neutron Embrittlement for VVER 1000 and VVER 440/213 RPVs, with Emphasis on Integrity Assessment
058	P. Borodkin G.I. Borodkin N.N. Khrennikov	Russian Federation	Analysis of Justification of Long Term Operation of Russian NPP with VVER in Aspect of Pressure Vessel Radiation Embrittlement
15:30-16:00	Technical Discussions		

TUESDAY, 15 MAY 2012 (continued)

14:00 -15:30 PARALLEL SESSION 4-2:
"I&C Modernization and Replacement"
(Seminar Theatre Room)

Chairperson: K. H. Kim, Republic of Korea

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
059	K.H. Kim C.H. Nam D.H. Lee	Republic of Korea	Doosan Experience on I&C Upgrade for Operating NPPs: Control Rod Control System & Automatic Seismic Trip System
060	R. Boring J.J. Persensky K.L. Le Blanc V. Agarwal	USA	Development of an End-State Vision for Incorporating Digital Controls and Operator Interface Design into Control Room Modernization
061	A. Andrashov V. V. Sklyar A. A. Siora	Ukraine	I&C Systems Refurbishment Projects for Plant Life Extension
062	K.C. Kwon D.Y. Lee	Republic of Korea	Software Qualification for Digital Safety Systems in KNICS Project
15:30-16:00	Technical Discussions		

TUESDAY, 15 MAY 2012 (continued)

14:00-15:30 **PARALLEL SESSION:**
 "IFRAM Programme"
 (Alpine East)

Chairperson: **T. Shoji, Japan**

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
063	T. Shoji L. J. Bond D. Brenchley C.E. Carpenter R. Reister R. Tilley I.S. Hwang O. Martin	Japan USA Republic of Korea EC-JRC	International Forum for Reactor Ageing Management (IFRAM): Progress in Cooperation to Promote Longer Term Operations (LTO)
064	I.S. Hwang T. Shoji E.H. Han C.E. Carpenter	Republic of Korea Japan China USA	IFRAM: Handbook on Reactor Ageing Management
065	C. E. Carpenter D. Brenchley L. J. Bond R. Reister R. Tilley I.S. Hwang O. Martin T. Shoji E.H. Han	USA Republic of Korea EC-JRC Japan China	IFRAM: Identification of Research Issues for Reactor Ageing Management
066	D. Brenchley L. J. Bond C.E. Carpenter R. Reister R. Tilley I.S. Hwang O. Martin T. Shoji	USA Republic of Korea EC-JRC Japan	Creating an International Forum - The Success Story of the International Forum for Reactor Ageing Management (IFRAM)
15:30-16:00	Technical Discussions		

TUESDAY, 15 MAY 2012 (continued)

16:00-17:30 **PARALLEL SESSION:**
"NDE/ISI"
(Granite Conference - 1st floor)

Chairperson: **P. Trampus, Hungary**

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
067	R. Meyer C. Henager P. Ramuhalli, Jr. L. Bond R. Montgomery	USA	Assessment of NDE technologies for detection and characterization of stress corrosion cracking in LWRs
068	T. Uchimoto T. Takagi K. Nishimoto	Japan	Advanced Inspection and Repair Welding Techniques for SCC Countermeasures
069	T. Griesbach	USA	Probabilistic Evaluation of Baffle Former Bolt Cracking in PWRs
070	O. Martin L. Gandossi C. Annis	EC-JRC USA	Optimal Sample Size for Probability of Detection Curves
19:00-21:30	Conference Banquet for all participants (Grand Ballroom)		

TUESDAY, 15 MAY 2012 (continued)

16:00-17:30 PARALLEL SESSION 3-4:
"RPV and Structural Integrity (2)"
(Alpine West)

Chairperson: M. Brumovsky, Czerch Republic

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
071	V. Revka L. Chyrko Y. Chaikocsky Y. Gulchuk	Ukraine	Estimation of RPV Material Embrittlement for Ukrainian NPP Based on Surveillance Test Data
072	H. Abe Y. Nagai T. Toyama J. Katsuyama K. Onizawa K. Murakami N. Sekimura T. Iwai T. Iwata Y. Katano S. Tamura	Japan	Results from Project on Enhancement of Ageing Management and Maintenance in NPP - Irradiation Embrittlement of RVP Steels
073	V. Vasiliev A. Shutikov N. Davidenko V. Lovchev	Russian Federation	Reactor Pressure Vessel and Internals Integrity and 60 years WWER-1000 Lifetime Extension Issues
074	V. Shrivastav R.N. Sen R.S. Yadav	India	Structural Integrity Assessment of VVER-1000 RPV under Accidental Cool Down Transients
19:00-21:30	Conference Banquet for all participants (Grand Ballroom)		

TUESDAY, 15 MAY 2012 (continued)

16:00-17:30 PARALLEL SESSION 4-3:
"Cable Ageing Management"
(Seminar Theatre Room)

Chairperson: S. Ray, USA

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
075	T. Hutchinson R. Easterling T. Herrmann	USA	Testing Results for Cables Exposed to Flooding at a US Nuclear Plant
076	Y. Ohki N. Hirai T. Minakawa T. Okamoto	Japan	The Status Quo of Japanese Research on Assurance of Cable Integrity in Nuclear Power Plants
077	K. Simmons A. Rohatgi	USA	Investigating repair techniques for ageing cables in nuclear power plants
078	K. Rovny	Slovakia	Cables Ageing Management Programs for Cables in Slovak NPPs
079	B. Radoslavov	Bulgaria	Determining of the Residual Lifetime of Qualified Electrical and I&C Equipment in Units 5 and 6 of Kozloduy NPP
19:00-21:30	Conference Banquet for all participants (Grand Ballroom)		

TUESDAY, 15 MAY 2012 (continued)

16:00-17:30 **PARALLEL SESSION:**
 "Maintenance Issues"
 (Alpine East)

Chairperson: M. Mochizuki, Japan

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
080	K. Yamamoto K. Okimura K. Onishi N. Sugimoto	Japan	PWSCC Preventive Maintenance Activities for Alloy 600 in Japanese PWR Plants
081	A. Drexler S. Weiss J. Fandrich	Germany	Steam Generator Maintenance Measures as Part of an Integrated Management in PWRs
082	A. Yamamoto A. Huerta K. Gott T. Koshy	OECD-NEA Sweden USA	Improving Regulatory Practices through the OECD-NEA Stress Corrosion Cracking and Cable Ageing Project (SCAP)
083	T. Shoji J. Kuniya Y. Takeda P. Ford P. Scott	Japan USA France	Evaluation of Proactive Management Issues Associated with Materials Ageing in Light Water Reactors
084	T. Jevremovic M. Kelly	USA	The Utah Nuclear Engineering Program and Devon Way are Developing One and Unique Approach to PLiM for Securing the Nation's Nuclear Future
19:00-21:30	Conference Banquet for all participants (Grand Ballroom)		

WEDNESDAY, 16 MAY 2012**08:30-10:30 PLENARY SESSION:** (Grand Ballroom)**Chairperson: G. G. Young, USA****Keynote speakers**

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
04KS	G. Frappier	Canada	Regulatory issues for PLiM for LTO
05KS	H. Hashemian	USA	Online Monitoring and Wireless Technologies are Ready for Automated Equipment and Process Condition Monitoring in Support of PLiM
06KS	M. G. Zheng	China	Sustainable Development and Safe Operation for Nuclear Power Plants in China

10:30-11:00 Technical Discussions**11:00-12:30 PANEL DISCUSSION(2):**
"LTO Approaches Reflecting Lessons Learned From Fukushima Accidents and Stress Test Results"
(Grand Ballroom)**Chairperson: N. Sekimura, Japan****Panel Members**
K.S. Kang, IAEA
I. S. Hwang, Republic of Korea
A. Heymer, USA
B. Holian, USA
J. R. Amaral, Brazil**12:30-14:30** Working Lunch/ Poster Session / Exhibition

WEDNESDAY, 16 MAY 2012(continued)			
14:30-16:00	PARALLEL SESSION 5-1: "Regulatory Issues Concerned with Plant Life Management" (Grand Ballroom)		
Chairperson: A. Blahoianu, Canada			
<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
085	G. Petöfi	Hungary	Regulatory Approach To and Lessons Learned with Licensing of Service Life Extension at PAKS NPP
086	M. Otaka H. Sakamoto T. Minakawa Y. Bessho	Japan	JNES's Activities Under New Inspection System - Validation of Electric Utilities' Maintenance Program and Maintenance Plan and Regulatory Supporting Activities of Ageing Management Technical Evaluation
087	L.D. Goicea	Romania	Romania-NPP PLiM-Between Regulatory Requirement/Oversight and Operator Safety/Financial Interest
088	B.Z. Mbebe	South Africa	South African Regulatory Framework for Nuclear Power Plant Life Management
089	K. Soda K. Pereira A. Huerta	Japan OECD-NEA	Regulatory Implications and Challenges for Long Term Operation
14:30-16:00	PARALLEL SESSION 3-5: "RPV/ RVI Integrity" (Alpine West)		
Chairperson: M. Bakirov, Russian Federation			
<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
090	O. Grytsenko V. N. Bukanov V. L. Diemokhin A. M. Pugacil S. M. Pugacb O. G. Vasylieva I. M. Vyshnevskyi	Ukraine	Dosimetry of VVER-1000 Reactor Pressure Vessel and Surveillance Specimens as a Part of PLiM at Ukrainian NPPs
091	M. Bakirov Povarov V.P	Russian Federation	Elaboration and installation of technology of on-line diagnostics of important equipment damage as a procedure of NPP Lifetime management
092	A. Shipsha J. Gunnars J. Mullins W. Zang	Sweden	Assessment of Acceptable Flaw Size and Inspection Interval in a Core Shroud Cover for BWR Reactor

093	E.A. Kenik J.T. Busby L. Tan M.N. Gussev	USA	High Fluence Irradiation Effects on Core Internals
14:30-16:00	PARALLEL SESSION 3-6: "Non-metallic Material Ageing Management" (Seminar Theatre Room)		
Chairperson:	D.J. Naus, USA		
<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
094	D.J. Naus	USA	Activities at ORNL in Support of Continuing the Service of Nuclear Power Plant Concrete Structures
095	B.P. Hohmann T. C. Esselman J. Wall	USA	Irradiated Concrete in Nuclear Power Plants: Bridging the Gap in Operational Experience
096	I. Maruyama O. Kontani Y. Ichikawa M. Takizawa	Japan	Development of Evaluation System for Concrete Strength Deterioration due to Radiation and Resultant Heat
097	D. Y. Jung H.S. Choi	Republic of Korea	Seismic Margin Assessment and Reinforcement of Kori 1 Safety-Related Equipment Considering its Anchorage Degradation

WEDNESDAY, 16 MAY 2012(continued)

14:30-16:00 PARALLEL SESSION 4-4:
"I&C Modernization"
(Alpine East)

Chairperson: K. Thomas, USA

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
098	L. Föllner A. Weich	Germany	Ageing Management in the Sector of Electrical and I&C in the Light of Nuclear Phase out in Germany
099	S. Bakhtiari S. Mohanty I. Prokofiev R. Tregoning	USA	Condition Based Prognostics of Passive Components - A New Era for Nuclear Power Plant Life Management
100	R. O. Montgomery USA C. Henager Jr P. Ramuhalli R. Meyer S. Hu		A Program to Develop Real-Time Monitoring of Nuclear Materials Degradation During Plant Operation
101	E. Liebhart	Germany	Digital I&C: Safety, Security and Availability

THURSDAY, 17 MAY 2012**08:30-10:30 PLENARY SESSION:**
(Grand Ballroom)**Chairperson: G. G. Young, USA****Keynote speakers**

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
07KS	R. Rintamaa	Finland	Network of Excellence and Sustainable Association for Plant Life Assessment and Long Term Operation in Europe
08KS	S.A. Bhardwaj	India	Nuclear Power Plant Management Processes for Indian Heavy Water reactors
09KS	T. Dujardin	OECD-NEA	OECD-NEA activities on Long Term Operation of Nuclear Power Plants

10:30-11:00 Technical Discussions**11:00-12:30 Report of the Session Chairpersons**
(Grand Ballroom)**Chairperson: G. G. Young, USA****Session Summary Presentations**Session 1-1~1-4: **A. Huerta, OECD-NEA**Session 2-1~2-4: **K. Onizawa, Japan**Session 3-1~3-6: **O. Martin, EC-JRC**Session 4-1~4-4: **K. Thomas, USA**Session 5-1: **A. Blahoianu, Canada**Session IFRAM and DOE : **T. Shoji, Japan**
R. Reister, USASession NULIFE: **R. Rintamaa, Finland****Recommendations and Conclusion****13:00 Closing of the Conference****USA representative**
J. Lyons, IAEA

POSTERS

Posters will be on display for the duration of the Conference (Grandball room)

<i>No. of Paper IAEA-CN-194-</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Paper</i>
1P01	S. Fabbri A. Diluch G. Vega R. Versaci	Argentina	Life Management Programme for Long Term Operation of Nuclear Facilities
1P02	G. Sevikyan	Armenia	Armenian NPP Experience In Assuring of Vital Equipment's Integrity
1P03	H. P. David	Canada	Cost Effective Decontamination and Refurbishment of 1900 HP Motors
1P04	W. Dalin S. J. Long	China	Life Cycle Management for Equipment in Nuclear Plants Based on Reliability & Actual conditions
1P05	M.L. Turi A.K. Jarvine G. Goszczynski G. Ogundele	Canada	Stress Corrosion Crack Growth Rate of Steam Generator Materials in Acidic Secondary Side Crevice Chemistry
1P06	A.J. Bíró K.B.Tanits P. G si A. Kovács P. Számel S. Rátkai	Hungary	Determination of ABOS 1-3' System Components Belonging to the Scope of License Application of Paks NPP Unit 1 for Extension of Service Life, Designated for the Review, and Verification of Completeness of the Scope
1P07	M. Takizawa S. Takagi H. Miyano N. Sekimura	Japan	Development of Technical Information Basis in Japanese Ageing Management Program for System Safety of NPPs
1P08	W. Taniura H. Otani	Japan	Urgent Safety Measures in Japan after Great East Japan Earthquake
1P09	K.C. Choi S.W. Song G.M. Park S.J. Hwang	Republic of Korea	Reliability Analysis for Safety Grade PLC (POSAFE-Q)
1P10	Y.S. Lee S.W. Song Y.H. No K.W.Yoo	Republic of Korea	The Bus Extension Module Design and Verification of POSAFE-Q Using LVDS

1P11	M.K. Lee S.W. Song D.H. Yun J.H. Kim	Republic of Korea	Development and Application of POSAFE-Q PLC Platform
1P12	H.G. Kim	Republic of Korea	Nuclear Power Plant Life Management (PLiM) of Korea
1P13	S.Y Won J.G. Lee S.G. Chung	Republic of Korea	Lessons Learned from the Ageing Management and Lifetime Evaluation for Continued Operation in Korea
1P14	E. Krasikov	Russian Federation	Controlling RPV Embrittlement Through Wet Annealing in Support of Life Attainment and Life Extension Decisions
1P15	M. Najamuddin	Pakistan	Plant Life Management of Karachi Nuclear Power Plant
1P16	M. Cojan	Romania	Considerations Related to LTO for GEN II/III NPP
1P17	V. Vasiliev B. Margolin V. Shvetsova V.N. Fomenko A. Gulenko	Russian Federation	Prediction of Fracture Toughness for RPV Integrity Assessment on the Basis of the Unified Curve Approach and Surveillance Specimens Testing
1P18	B.E. Mills C. Regan	Canada	Structural Integrity Testing of Nuclear Power Plant Components
1P19	S. Hess	USA	Risk Informed Safety Margin Characterization for Effective Long Term Nuclear Power Plant Safety Management
1P20	A. Hull A. Hiser	USA	NPP License Renewal and Ageing Management: Revised Guidance
1P21	C. D. Le	Vietnam	Study of Vietnam on Licensing Application Process and Lessons Learnt
1P22	E.E. Garcia-Hernandez R. M. Vazquez-Cervantes J. Bonifacio-Martinez	Mexico	Results of Cable Ageing Management Tests for Laguna Verde Nuclear Power Plant
1P23	B.T. Pham V. Agarwal N.J. Lybeck M.S.Tawfik	USA	Prognostic Health Monitoring System: Component Selection Based on Risk Criteria and Economic Benefit Assessment

1P24	P. Ramuhalli C. Henager Jr. J. Griffin R. Meyer J. Coble S. Pitman L. Bond	USA	Material Ageing and Degradation Detection and Remaining Life Assessment for Plant Life Management
1P25	T. Herrmann	USA	Benefits of Integrating Ageing Management Programs
1P26	T. Herrmann	USA	Evaluation of Piping for Internal Flooding Potential
1P27	T. Herrmann	USA	Recommended Approach to Performing One-Time-Inspections
1P28	R. Farris	USA	Human Performance in Plant Status Control
1P29	Z.M. Zhong L.J. song Z. Hui	China	Nuclear Power Plants Secondary Loop Piping Wall-Thinning Management in China
1P30	Y.H. Wang L.Yang S.T. Lin	China	Ageing Detecting and Experiment on Concrete Containment at the NPP in China
1P31	C. Prin D. Dallery	France	SG Life Time Management: Experience and Perspectives for SG Chemical Cleaning Application on EDF Nuclear Fleet
1P32	E. Wachi J. Nishitani K. Okimura	Japan	Maintenance Technology and its Applications for PWR Plants
1P33	I.J. Rooyen G. Griffith J. Garnier	USA	Testing Systems and Results for Advance Nuclear Fuel Materials
1P34	J.H. Oxstrand K.L. Le Blanc	USA	Establishing Requirements for a Compute Based Procedure System for Field Operators: Results from a Baseline Study of Procedure Use
1P35	M. Brumovsky	Czech	Role of Irradiation Embrittlement in RPV Lifetime Assessment and Safe Long Term Operation
1P36	E. Keim S. Blasset P. Gilles P. Karjalainen- Roikonen	Germany France Finland	Multimetal - Structural Performance of Multimetal Component
1P37	D. Moineau A. Al-Mazouzi D. Lidbury M. Konstantinovic	France United Kingdom Belgium	Overview of PERFORM 60: Prediction of the Effects of Radiation for Reactor Pressure Vessel and In-core Materials Using Multi-Scale Modelling - 60 Years' Foreseen Plant Lifetime

1P38	S. Heussner	Germany	Style - A European Project on Structural Integrity: Progress of the Work After 2 Years
1P39	T. Minakawa H.Sakamoto	Japan	Research Activities on Environmental Qualification Test Method for Cable and other Electrical and I&C component of Nuclear Power Plant
1P40	D. Sanchez. A M.Gutierrez .G A. Juarez. C V.Juarez. J M.Yun. G Fernandez. G	Mexico	Experiences in the TC IAEA MEX4/058 Project: RCIC Ageing Management Review
1P41	J.Y. Yoon H.O. Nam I.S. Hwang T.H. Lee	Republic of Korea	Modeling of the Corrosion Fatigue Crack Growth Rate for Ni-base Alloy X-750
1P42	J. J. Kim K.J. Choi J. H. Kim C.B. Bahn	Republic of Korea USA	Advanced Instrumental Science-Based Study on Dissimilar Metal Weld Ageing and Its Effect on Cracking in PWRs
1P43	D. Gerber	USA	Screening for Environmentally-Assisted Fatigue Locations
1P44	Y. Kitsutaka N.Takesue M.Tsukagoshi	Japan	Ageing Evaluation on Nuclear Power Plant Concrete Structures
1P45	T. Esselman P.M. Bruck M.Fallin	USA	Augmented Containment Examination in Nuclear Power Plants: Repeatable and Quantitative Data Methods to Track Performance During Extended Plant
1P46	G. Griffith	USA	U.S. Department of Energy Accident Resistant SiC Clad Nuclear Fuel Development
1P47	K.Thomas	USA	Future Vision for Instrumentation, Information, and Control Modernization
1P48	S. W. Maeng K. K. Kim J.S. You S. S. Kim	Republic of Korea	Experimental Evaluation of the Durability of the Concrete Marine Structure in SKN 3&4
1P49	J.W. Hines M.E. Sharp R. Austin	USA	Prognostic Analysis of Transient Operations: Utilizing the Full Spectrum of Lifetime Data
1P50	H. Miyano N. Sekimura M. Takizawa M. Matsumoto	Japan	Construction of Earthquake-Proof Safety Evaluation Methods for Pipes with Wall Thinning

1P51

K. Ikeda

Japan

Reactor Core Internals Replacement of IKATA Units 1 and 2

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3.12	Core Knowledge of Instrumentation and Control Systems in Nuclear Power Plants	2011
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3.11	Integrity of Reactor Pressure Vessels in NPPs : Assessment of Irradiation Embrittlement Effects in Reactor Pressure Vessel Steels	2009
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3.9	Power Uprate in Nuclear Power Plants: Guidelines and Experience	2011
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1662	Preparing and Conducting Review Missions of Instrumentation and Control Systems in Nuclear Power Plants	2011
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<http://www.iaea.org/NuclearPower/Engineering/Publications/>

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13th International Symposium on Biological and Environmental Reference Materials (BERM 13), 25-29 June 2012
Vienna, Austria

24th Fusion Energy Conference, 8-13 October 2012
San Diego, CA, USA

International Conference on Radiation Protection in Medicine-Setting the Scene for the Next Decade, 3-7 December 2012, Bonn Germany

2013

International Experts' Meeting on Decommissioning and Remediation after a Nuclear Accident, Vienna, Austria, 28 to 31 January 2013

International Conference on Fast Reactors and Closed Fuel Cycles - Challenges and Opportunities (FR13), 4-7 March 2013, Paris, France

International Conference on Effective Regulatory Systems, 8-12 April 2013, Ottawa, Canada

International Ministerial Conference on Nuclear Power in the 21st Century, St. Petersburg, Russian Federation, June 2013

The International Conference on Nuclear Security: Enhancing Global Efforts, 24-28 June 2013, Vienna, Austria

International Conference on Integrated Medical Imaging in Cardiovascular Diseases, 30 September - 04 October 2013, Vienna, Austria

International Conference on Safety and Security of Radioactive Sources, 27-31 October 2013, Abu Dhabi, UAE

International Conference on Topical Issues in Nuclear Installation Safety, 21-24 October, Vienna, Austria

For information on forthcoming scientific meetings, please consult the IAEA web site: <http://www.iaea.org/>

NOTES

NULIFE: Nuclear Plant Life Prediction, EC R&D programme,

IFRAM: International Forum on Reactor Ageing Management

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