

Content:

PAPERS

VIRTUAL REALITY SIMULATION OF STATION BLACKOUT ACCIDENT IN VVER-1000 <i>ABOU-GABAL Hanaa, SALEM Asmaa, REFAEY Mostafa, ALY Shorouq, ELSHAHAT Ayah E.</i>	10
FGPA-BASED COMPACT SAFETY CONTROLLER <i>ALLORY Mathieu, HAOUANEH Hayder</i>	11
THE EFFECT OF REACTOR POWER BEHAVIOR ON LBLOCA HYDRODYNAMICS <i>AMER Dina, NIKONOV Sergei</i>	12
LIFETIME EXTENSION OF VVER-1000 RPV FROM FRACTURE MECHANICS POINT OF VIEW <i>ANTONCHENKO V., DUBYK Y., ZARAZOVSKII M.</i>	13
ROSATOM TECHNICAL ACADEMY OF THE PERSONNEL TRAINING FOR NPPs UNDER CONSTRUCTION <i>ASPIDOV V.</i>	14
METHODOLOGICAL APPROACHES AND EXPERIENCE IN PERFORMING SEVERE ACCIDENT ANALYSIS FOR NPPS WITH VVER-440 RP <i>ASTAKHOV Valerii</i>	15
EXPERIENCE GAINED FROM NUMERICAL ANALYSIS OF RPV IN CONDITIONS OF CORE MELTING ACCIDENT <i>BERKY Róbert, OTÉPKA Stanislav</i>	16
HIGHLIGHTS OF 2019 TOP FUEL AND NESEBAR WWER FUEL CONFERENCES <i>BĚLÁČ Josef, LINHART Stanislav, ŠEVEČEK Martin</i>	17
3D PROFILOMETRY UTILIZATION ON VVER TYPE REACTORS <i>BROM Jaroslav</i>	18
NUCLEAR EDUCATION IN THE CZECH REPUBLIC <i>ČECHÁK Tomáš, JIŘIČKOVÁ Jana</i>	19
DOOSAN ŠKODA POWER IS READY FOR A NEW NUCLEAR UNIT IN THE CZECH REPUBLIC <i>FIALA J.</i>	20
FUNCTIONAL ANALYSIS (FA) AND SOFTWARE TOOL FOR PROOF OF NPP ROBUSTNESS AND INDEPENDENCE OF INDIVIDUAL LEVELS IN DEFENCE IN DEPTH <i>HAKL Vaclav</i>	21
PRACTICAL USE OF NONLINEAR ULTRASOUND METHODS, MONITORING THE RADIATION INDUCED AGEING OF CONCRETE BIOLOGICAL SHIELDING OF WWER 440/213 REACTORS <i>HLAVÁČ Zbyněk, ČAKTUR F.</i>	22
WESTINGHOUSE VVER-1000 FUEL DESIGN AND DELIVERY TO TEMELÍN NUCLEAR POWER PLANT <i>HÖGLUND Jan, BENJAMINSSON Ulf, ÖNNEBY Carina</i>	23
PROJECTS ON ELECTRICAL POWER GENERATION LEVEL ENHANCING AND ON CAPACITY ENHANCING FOR NPP WITH PWR-TYPE REACTORS <i>KANATOV Serghey</i>	24

EXPERIENCE GAINED WITH NEW POWER UNITS COMMISSIONING IN RUSSIA KATSMAN Alexander	25
UPDATE OF THE JHR EXPERIMENTAL CAPACITY FOR VVER COMMUNITY UTILIZATION KINNUNEN P., MIKLOS M., BIGNAN G., PARRAT D.	26
IMPLEMENTATION OF THE 1 ST STAGE OF THE V1 NPP DECOMMISSIONING AND USE OF THE CIVIL BUILDING CB 490 (TURBINE HALL) FOR THE NEEDS OF THE V1 NPP DECOMMISSIONING KLEIN T.	27
VVER LICENSING ACCORDING TO WESTERN REGULATION KOKAREV Ivan, GERMAIN Claude, LARCHÉ Gérard	28
DEBRIS FRETTING IMPACT ON THE STANDARD AND COATED Zr-1%Nb CLADDING EVALUATION KOPEĆ Marcin	29
ANALYTICAL SUPPORT FOR STRATEGIES OF IN-VESSEL CORE COOLING AND EX-VESSEL CORIUM CONFINEMENT FOR THE TEMELIN NPP KOTOUČ Miroslav, DUSPIVA Jiří, JANDA Tomáš	30
INVESTIGATION OF THE THERMOACOUSTIC OSCILLATIONS MECHANISM ON NUCLEAR CORE KOROLIOV A.V.	31
RADIATION SAFETY ANALYSIS OF CONTAINER FOR SPENT FUEL FROM VVER-440 REACTOR KOSIAK Pavlo, LOVECKY Martin	32
LONG TERM CONTAINMENT COOLING FOR VVER-440 KOSTOV Emil, HARTMANN Christoph, KAMPS Álvaro Pérez-Salado, BAUER Martin	33
THE OXIDATION BEHAVIOR OF E110 CLADDING ALLOY IN AIR-STEAM MIXTURES KREJČÍ J., VRBKA P., KABÁTOVÁ J., KOČÍ J., MANOCH F., VRTÍLKOVÁ V.	34
LONG TERM OPERATION OF NUCLEAR POWER PLANTS – 2015 – 2018 IAEA SALTO MISSION OBSERVATIONS AND TRENDS KRIVANEK Robert	35
ASPECT AND COMPONENTS OF FLOW ACCELERATED CORROSION AGEING MANAGEMENT PROGRAM KRONDAK Martin, KAPLAN Jiri, SPLITEK Karel	36
PREPARATION AND COMMENCEMENT OF THE V1 NPP DECOMMISSIONING KRUPA P.	37
MONITORING AND DIAGNOSTIC SOLUTIONS FOR COMPONENT RELIABILITY AND CONDITION BASED MAINTENANCE FOR VVER LATORRE Raul, FOMI WAMBA Francis, SEITZ Thomas	38
MATERIAL RESEARCH OF ADVANCED ZIRCONIUM-BASED ALLOYS IRRADIATED AT TEMELIN NPP REACTOR CORE LINHART Stanislav, ŠEVEČEK Martin, BĚLÁČ Josef, ŘEHÁČEK Radomír, STARÝ Vladislav, NOVIKOV Vladimir, MARKELOV Vladimir	39

"OKB GIDROPRESS" PARTICIPATION IN DEVELOPMENT OF SA STRATEGY FOR NPP-2006 (AES-2006) LITYSHEV Alexander	40
ADVANCED TVSA FUEL FOR VVER-1000 LUKYANOV V. E.	41
FILTERED CONTAINMENT VENTING SYSTEMS FOR UKRAINIAN NPP UNITS WITH REACTOR FACILITY V-320 MAZUROK Oleksandr, IVANOV Vadym, KOCHARYANTS Oleg	42
UJV GROUP ACTIVITIES IN THE QUALIFICATION OF ACCIDENT TOLERANT FUELS MIKLOŠ Marek, KLOUZAL Jan	43
DISMANTLING OF STEAM GENERATORS AT JASLOVSKÉ BOHUNICE V1 NPP MIKULÁŠEK M.	44
EXPERIMENTAL STUDY FOR THE SUBSTANTIATION OF THE OPERABILITY OF VVER PASSIVE SAFETY SYSTEMS MOROZOV A. V., SAHIPGAREEV A. R., SHLEPKIN A. S.	45
SAFETY OF NPP WITH VVER NEW GENERATION MOROZOV Vladimir	46
ASSESSMENT OF VALVE STATE BY IN-SITU METALLOGRAPHY AS COST SAVING TOOL FOR MAINTENANCE ACTIVITIES MÜLLER Christian, SCHUMMER Benjamin	47
NEW GENERATION OF THE RRCS SYSTEM FOR CONTROL OF THE LKP-M/4 DRIVES IN THE I&C PROJECTS OF THE VVER 1000 AND VVER 1200 REACTORS NOVÝ Ladislav, CÉDL Marek	48
EVALUATION OF CONTAINMENT DOSE RATE DURING POSTULATED SEVERE ACCIDENT FOR THE TEMELIN NPP NÝVLT Sebastian, KOTOUČ Miroslav, VOKÁČ Petr	49
POTENTIAL FOR NUCLEAR ENERGY USE IN THE HEAT SUPPLY IN CZECH REPUBLIC PAZDERA František, BĚLÁČ Josef	50
NPP THERMAL PERFORMANCE MONITORING AND OPTIMIZATION SYSTEM PLISKA Jiří	51
NUCLEAR EDUCATION IN RUSSIA: PROFESSIONAL COMMUNITY & COLLABORATION PONOMARENKO Alexey	52
NUCLEAR SEALING TECHNOLOGY AND FLANGE REFURBISHMENT FOR AGED EQUIPMENT OF VVER NPP UNITS RITTER Thomas J., SCHURIG Jens	53
INFLUENCING THE THIN COATING ON THE STRESS-STRAIN STATE OF THE CLADDING OF FUEL RODS OF THE VVER-1000 NUCLEAR REACTOR ROMASHOV Yu., POVOLOTSKII E.	54

CURRENT STATUS OF THE SMR DEVELOPMENT IN ROSATOM RTISCHEV Nikita	55
CRDM TYPE LKP-M/4: THE NEWEST CONTROL ROD DRIVE MECHANISM FROM ŠKODA JS A.S. RUCHAR Miloslav, MARTINEC Igor	56
INTRODUCTION OF THE TEMELIN IRRADIATED CLADDING PROJECT - TIRCLAD ŠEVEČEK Martin, BĚLÁČ Josef, LINHART Stanislav, ŘEHÁČEK Radomír, VESELÝ Pavel, DZURUS Michal	57
EXPERIENCE AND EXPERTISE OF THE FUEL COMPANY TVEL IN DECOMMISSIONING OF NUCLEAR FACILITIES AND RW MANAGEMENT TININ Vasily, BAZHENOV Dmitry	58
EVOLUTION OF VVER REACTORS AND CURRENT PERFORMANCE TOMICKEK Leos	59
THE MAJOR AREAS OF COOPERATION BETWEEN TVEL JSC AND CZECH COMPANIES UGRYUMOV Alexander	60
EXPERIENCE OF RUSATOM SERVICE JSC ON LIFETIME EXTENSION PROJECT IMPLEMENTATION FOR NPPs WITH VVER-440 AND VVER-1000 REACTORS: KEY OBJECTIVES, ASPECTS И AND CHALLENGES USHAKOV Artem, POPOV Alexander	61
GADUS (GRAPHICS AIDED DOCUMENT UTILIZATION SYSTEM) VOLTR Vladimír	62
QUALIFICATION STRATEGIES FOR COST REDUCTIONS IN NEW BUILD AND LTO PROGRAMS WABER Peter	63
ACTUAL PROBLEMS OF ASSESSING THE TECHNICAL STATE OF WWER-1000 REACTOR ELEMENTS FOR JUSTIFICATION OF LIFETIME PROLONGATION ZARAZOVSKII Maksym, AGEIEV Serhii, BOHDAN Andrii, DUBYK Yaroslav	64
APPLICATION OF NON-DESTRUCTIVE TECHNIQUES IN PRE-OPERATION NUCLEAR POWER PLANTS IN REGARDS TO NUCLEAR SAFETY ZRNIĆ Iveta, SCHEIP Slavomír, CHMELÍK Vladimír	65

POSTERS

CHALLENGES FOR THE DESIGN OF HVAC (HEATING, VENTILATION AND AIR CONDITIONING) SYSTEMS AND COMPONENTS FOR MODERN NPP PROJECTS DA SILVA WEBER Christof	66
TRANSFER MATRIX METHOD APPLICATION FOR THE HYDROGASDYNAMIC PHENOMENA ANALYSIS FEDOROV Dmitriy O.	67
UPPER BLOCK COOLING MODEL AND ITS APPLICATION FOR THE LIFETIME EXTENSION FILONOV Vladyslav, FILONOVA Yuliia, DUBYK Yaroslav, ZARAZOVSKII Maksym	68
CHANGES IN HEAT TRANSFER CONDITIONS DUE TO THE CONTACT OF THE CORE BAFFLE AND BARREL DURING SWELLING PROCESSES FILONOVA Yuliia, FILONOV Vladyslav, DUBYK Yaroslav, BOHDAN Andrii	69
VVER 1000 SBLOCA MODEL USING RELAP5/SCDAPSIM GHONEIM Abdelrahman M., SHAHEN Aya E., ALHADDAD Basma M., SAYED Walaa A., ELSHAHAT Ayah, ABOU GABAL Hanaa	70
SMALL-POWER EDGs IN DIFFERENT APPLICATIONS GÜLDNER Manuel	71
MONITORING OF THE SPENT FUEL POOL LEVEL INCLUDING DURING SEVERE ACCIDENTS IVANOV Vadym, MAZUROK Oleksandr	72
SAFETY ASSESSMENT OF DEC-A EVENTS FOR THE CZECH NPP'S KRAL Pavel	73
HYDROGEN MONITORING IN BELARUS NPP LIEBIG Jan, MARX Philipp, GEISS Christian	74
RETROFIT OF FILTERED CONTAINMENT VENTING SYSTEM FOR VVER 1000 (UKRAINE). NEW WAYS TO OVERCOME LAYOUT RESTRAINTS BY INNOVATIVE DESIGN FOR A WELL PROVEN AND TESTED TECHNOLOGY LOSCH Norbert, FUTH Fabian, MUSCHTER Jan	75
FILTERED CONTAINMENT VENTING SYSTEMS FOR UKRAINIAN NPP UNITS WITH REACTOR FACILITY V-320 MAZUROK Oleksandr, IVANOV Vadym, KOCHARYANTS Oleg	76
PROBABILISTIC SSI ANALYSIS OF A REACTOR BUILDING TO FACILITATE FRAGILITY ASSESSMENT NINCIC Vladimir, RADMANOVIC Bojan	77
DESIGN BASIS ACCIDENT LABORATORIES IN RESEARCH CENTRE ŘEŽ RABOCHOVÁ Michaela	78
OPTIMIZATION OF SAFETY VALVE MAINTENANCE AND SETTING USING HOT ADJUSTMENTS TEST ON A TEST LOOP SCHUMMER Benjamin	79

AGING MANAGEMENT SOFTWARE PLATFORM FOR LONG TERM OPERATION VVER (COMSY) ZANDER André, LATORRE Raul, SEITZ Thomas	80
SPECIFIC ISSUES IN LIFETIME PROLONGATION OF COMPONENTS, STRUCTURES AND PIPELINES OF UKRAINIAN NPP'S ZARAZOVSKII Maksym, AHEIEV Serhii, BOHDAN Andrii, DUBYK Yaroslav	81
THE RPV INTEGRITY ASSESSMENT WITH RESPECT TO THE CORIUM RETENTION DURING SA. THE OECD/NEA CAPS PROJECT PROPOSAL AND RELATION TO THE IVMR EXPERIMENT. ŽDÁREK Jiří, DUSPIVA Jiří, WANDROL Jan, PIŠTORA Vladislav, GÁL Petr, KRHOUNEK Vladimír, BÁTĚK David	82